

**UNITED STATES AIR FORCE**  
**Committee Staff Procurement Backup Book**  
**FY 2001 Amended Budget Request**



**February 2000**

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**AIRCRAFT PROCUREMENT, AIR FORCE**  
**VOLUME I**

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OPR: SAF/FMB

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**APPROPRIATION LANGUAGE**

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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 foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents and transportation of things; to remain available for obligation until September 30.**

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FY 2001 AMENDED BUDGET REQUEST

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## GLOSSARY OF ACRONYMS

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

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**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 - Multiyear Procurement**  
**MSIP - Multi-Stage Improvement Program**  
**NAVWAR - Navigation Warfare**  
**NMC Rate - Not Mission Capable Rate**  
**OFP - Operational Flight Program**  
**OT&E - Operational Test and Evaluation**  
**OWRM - Other War Reserve Material**  
**PAGEL - Priced Aerospace Ground Equipment List**  
**PB - President's Budget**  
**PGSE - Peculiar Ground Support Equipment**  
**PMC - Procurement Method Code**  
**PR - Purchase Request**  
**PTT - Part Task Trainer**



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

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**ORGANIZATIONS**

**ACC - Air Combat Command**

**AFMC - Air Force Material Command**

**ALC - Air Logistics Center**

**ASC - Aeronautical Systems Center**

**ATC - Air Training Command**

**FAA - Federal Aviation Administration**

**NATO - North Atlantic Treaty Organization**

**OSD - Office of the Secretary of Defense**

**PACAF - Pacific Air Forces**

**USAFE - United States Air Forces Europe**

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## TERMS

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

**Avionics** - Electronic equipment on-board aircraft

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

**Chaff Flare** - Radar and infrared countermeasures

**Depot** - Wholesale level repair and supply point

**Drone** - An object used for target practice

**Fly by wire** - Full authority electronic flight control system

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

**Interdiction** - Operational term for behind the front line bombing

**Inter theater** - Global

**Intratheater** - Within given area

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

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

**Off the Shelf** - Commercially available equipment

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

**Prototype** - A working model transforming a developmental idea into reality

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

**Pylon** - Munitions adapter

**Readiness** - Ability to go to war and support initial deployment

**Robotics** - Automated manufacturing technique

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**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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FY 2001 AMENDED BUDGET REQUEST

FEBRUARY 2000

**SECTION 3:**

**3010F AIRCRAFT, EXHIBIT P-1**

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## DEPARTMENT OF THE AIR FORCE

## FY 2001 PROCUREMENT PROGRAM

SUMMARY  
(\$ IN MILLIONS)

FEB 2000

<u>APPROPRIATION</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
AIRCRAFT PROCUREMENT, AIR FORCE	8,235.2	8,606.5	9,539.6
PROCUREMENT OF AMMUNITION, AIR FORCE	411.4	583.8	638.8
MISSILE PROCUREMENT, AIR FORCE	2,091.4	2,200.1	3,061.7
OTHER PROCUREMENT, AIR FORCE	7,470.6	7,221.4	7,699.1
<b>TOTAL DEPARTMENT OF THE AIR FORCE</b>	<b>18,208.7</b>	<b>18,611.7</b>	<b>20,939.3</b>

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DEPARTMENT OF THE AIR FORCE

FY 2001 PROCUREMENT PROGRAM

SUMMARY  
(\$ IN MILLIONS)

FEB 2000

APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

<u>ACTIVITY</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
01. COMBAT AIRCRAFT	806.2	834.2	2,546.1
02. AIRLIFT AIRCRAFT	3,067.5	3,488.3	3,099.0
03. TRAINER AIRCRAFT	108.2	111.4	113.8
04. OTHER AIRCRAFT	982.3	555.1	703.5
05. MODIFICATION OF INSERVICE AIRCRAFT	1,774.2	2,182.3	1,875.4
06. AIRCRAFT SPARES AND REPAIR PARTS	512.9	441.2	356.9
07. AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES	983.9	993.9	844.9
<b>TOTAL AIRCRAFT PROCUREMENT, AIR FORCE</b>	<b>8,235.2</b>	<b>8,606.5</b>	<b>9,539.6</b>

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DEPARTMENT OF THE AIR FORCE  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 2000

## MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
<b><u>BUDGET ACTIVITY 01: COMBAT AIRCRAFT</u></b>									
<b>TACTICAL FORCES</b>									
1	F-22 RAPTOR	A	2	(644.3)		(202.1)	10	(2,428.6)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-71.5)		(-198.7)		(-278.8)	U
				-----		-----		-----	
				<b>572.8</b>		<b>3.4</b>		<b>2,149.9</b>	
2	F-22 RAPTOR								
	ADVANCE PROCUREMENT (CY)			197.2		277.1		396.2	U
	(FY 1999 FOR FY 2000) (MEMO)			(197.2)					
	(FY 2000 FOR FY 2001) (MEMO)					(277.1)			
	(FY 2001 FOR FY 2002) (MEMO)							(396.2)	
3	F-15A	A		(11.0)	5	(267.3)		(24.3)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-11.0)				(-24.3)	U
				-----		-----		-----	
						<b>267.3</b>			
4	F-15A					24.3			U
	ADVANCE PROCUREMENT (CY)					(24.3)			
	(FY 2000 FOR FY 2001) (MEMO)								
5	F-16 C/D (MYP)	A	1	(26.6)	10	(238.9)		(23.3)	U
	LESS: ADVANCE PROCUREMENT (PY)							(-23.3)	U
				-----		-----		-----	
				<b>26.6</b>		<b>238.9</b>			
6	F-16 C/D (MYP)								
	ADVANCE PROCUREMENT (CY)			9.6		23.3			U
	(FY 1999 FOR FY 2000) (MEMO)			(9.6)					
	(FY 2000 FOR FY 2001) (MEMO)					(23.3)			
				-----		-----		-----	
<b>TOTAL COMBAT AIRCRAFT</b>				<b>806.2</b>		<b>834.2</b>		<b>2,546.1</b>	

DEPARTMENT OF THE AIR FORCE  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 2000

## MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
<b><u>BUDGET ACTIVITY 02: AIRLIFT AIRCRAFT</u></b>									
<b>TACTICAL AIRLIFT</b>									
7	C-17 (MYP)	B	13	(2,897.6)	15	(3,030.5)	12	(2,555.2)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-327.2)		(-359.5)		(-343.3)	U
				-----		-----		-----	
				<b>2,570.4</b>		<b>2,671.0</b>		<b>2,211.9</b>	
8	C-17 (MYP)								
	ADVANCE PROCUREMENT (CY)			302.6		287.3		266.8	U
	(FY 1999 FOR FY 2000) (MEMO)			(302.6)					
	(FY 2000 FOR FY 2001) (MEMO)					(287.3)			
	(FY 2001 FOR FY 2002) (MEMO)							(266.8)	
9	C-17 ICS	B				396.6		412.2	U
<b>OTHER AIRLIFT</b>									
10	WC-130	A	1	74.5					U
11	EC-130J	A	1	83.9	1	87.1			U
12	C-130H	A		7.0					U
13	C-130J	A		29.1		46.4	2	208.1	U
				-----		-----		-----	
<b>TOTAL AIRLIFT AIRCRAFT</b>				<b>3,067.5</b>		<b>3,488.3</b>		<b>3,099.0</b>	
<b><u>BUDGET ACTIVITY 03: TRAINER AIRCRAFT</u></b>									
<b>OPERATIONAL TRAINERS</b>									
14	JPATS	A	22	108.2	29	111.4	27	113.8	U
				-----		-----		-----	
<b>TOTAL TRAINER AIRCRAFT</b>				<b>108.2</b>		<b>111.4</b>		<b>113.8</b>	

DEPARTMENT OF THE AIR FORCE  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 2000

## MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
<b><u>BUDGET ACTIVITY 04: OTHER AIRCRAFT</u></b>									
<b>HELICOPTERS</b>									
15	V-22 OSPREY	A		(22.0)		(21.8)	4	(355.7)	U
	LESS: ADVANCE PROCUREMENT (PY)							(-19.9)	U
				-----		-----		-----	
				22.0		21.8		335.8	
16	V-22 OSPREY								
	ADVANCE PROCUREMENT (CY)					19.9		27.2	U
	(FY 2000 FOR FY 2001) (MEMO)					(19.9)			
	(FY 2001 FOR FY 2002) (MEMO)							(27.2)	
<b>MISSION SUPPORT AIRCRAFT</b>									
17	SMALL VCX	A	4	159.8					U
18	C-32A	A	2	158.9					U
19	C-32B FEST/DEST AIRCRAFT	A			1	73.0			U
20	CIVIL AIR PATROL A/C	A	27	3.0	27	2.5	27	2.5	U
21	OPERATIONAL SUPPORT AIRCRAFT	A			1	61.8			U
<b>OTHER AIRCRAFT</b>									
22	TARGET DRONES	A				31.3		32.9	U
23	E-8C	A	2	(491.3)	1	(265.0)	1	(296.3)	U
	LESS: ADVANCE PROCUREMENT (PY)			(-18.0)		(-38.7)		(-35.7)	U
				-----		-----		-----	
				473.3		226.3		260.6	
24	E-8C								
	ADVANCE PROCUREMENT (CY)			35.6		35.7			U
	(FY 1999 FOR FY 2000) (MEMO)			(35.6)					
	(FY 2000 FOR FY 2001) (MEMO)					(35.7)			
25	E-8C ICS	A				25.6			U
26	HAEUAV	A						22.4	U

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DEPARTMENT OF THE AIR FORCE  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 2000

## MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
27	PREDATOR UAV	A	7	129.8	7	57.1	7	22.1	U
TOTAL OTHER AIRCRAFT				982.3	555.1	703.5			
<b><u>BUDGET ACTIVITY 05: MODIFICATION OF INSERVICE AIRCRAFT</u></b>									
<b>STRATEGIC AIRCRAFT</b>									
28	B-2A	A		14.3	19.8		21.7	U	
29	B-1B	A		82.9	125.5		48.8	U	
30	B-52	A		47.5	24.6		8.4	U	
31	F-117	A		28.5	37.2		32.0	U	
<b>TACTICAL AIRCRAFT</b>									
32	A-10	A		28.3	27.1		33.9	U	
33	F-15	A		233.8	308.9		258.2	U	
34	F-16	A		256.4	283.1		248.8	U	
35	T/AT-37	A		.1	.1		.1	U	
<b>AIRLIFT AIRCRAFT</b>									
36	C-5	A		82.6	77.6		95.4	U	
37	C-9	A		14.2	15.1		3.3	U	
38	C-17A	A		51.3	95.0		97.1	U	
39	C-21	A		47.2	9.3		1.9	U	
40	C-22	A		.2	.2			U	
41	C-32A	A			.5		23.6	U	
42	C-37A	A			.4		.4	U	
43	C-141	A		32.8	10.8		.7	U	

DEPARTMENT OF THE AIR FORCE  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 2000

## MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
<b>TRAINER AIRCRAFT</b>									
44	T-1	A		7.5		*			U
45	T-3 (EFS) AIRCRAFT	A		.1		2.2		1.9	U
46	T-38	A		25.1		44.0		120.5	U
47	T-41 AIRCRAFT	A		.1		.1		.1	U
48	T-43	A		5.7		.7		4.9	U
<b>OTHER AIRCRAFT</b>									
49	KC-10A (ATCA)	A		38.3		38.6		55.4	U
50	C-12	A		2.8		6.3		1.5	U
51	C-18	A		.4		.3		.3	U
52	C-20 MODS	A		6.5		5.4		5.2	U
53	VC-25A MOD	A		7.3		9.1		.1	U
54	C-130	A		116.0		167.0		91.5	U
55	C-135	A		290.4		446.6		328.2	U
56	DARP	A		137.2		234.4		165.5	U
57	E-3	A		112.8		104.3		88.7	U
58	E-4	A		11.0		15.0		31.6	U
59	E-8	A		43.5		28.3		33.4	U
60	H-1	A		1.8		.3		3.5	U
61	H-60	A		21.2		15.2		23.6	U
62	OTHER AIRCRAFT	A		15.9		20.1		28.2	U
63	PREDATOR MODS	A		3.4					U

DEPARTMENT OF THE AIR FORCE  
FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 2000

## MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
OTHER MODIFICATIONS									
64	CLASSIFIED PROJECTS	A		7.2		9.3		16.7	U
				-----		-----		-----	
TOTAL MODIFICATION OF INSERVICE AIRCRAFT				1,774.2		2,182.3		1,875.4	
<u>BUDGET ACTIVITY 06: AIRCRAFT SPARES AND REPAIR PARTS</u>									
AIRCRAFT SPARES + REPAIR PARTS									
65	SPARES AND REPAIR PARTS	A		512.9		441.2		356.9	U
				-----		-----		-----	
TOTAL AIRCRAFT SPARES AND REPAIR PARTS				512.9		441.2		356.9	
<u>BUDGET ACTIVITY 07: AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES</u>									
COMMON SUPPORT EQUIPMENT									
66	AIRCRAFT SUPPORT EQ & FACILITIES	A		156.1		175.4		177.9	U
POST PRODUCTION SUPPORT									
67	A-10	A		11.0		8.1			U
68	B-2A	A		243.4		65.9		18.6	U
69	B-2B	A				46.5		42.7	U
70	C-5	A		27.7					U
71	C-130	A						1.4	U
72	E-4	A						1.5	U
73	F-15 POST PRODUCTION SUPPORT	A		6.9		7.2		7.3	U
74	F-16 POST PRODUCTION SUPPORT	A		36.6		43.9		25.5	U
INDUSTRIAL PREPAREDNESS									
75	INDUSTRIAL PREPAREDNESS	A		18.5		24.3		25.4	U
WAR CONSUMABLES									
76	WAR CONSUMABLES	A		74.6		112.3		43.0	U

DEPARTMENT OF THE AIR FORCE  
 FY 2001 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 2000

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1999		FY 2000		FY 2001		S E C
			QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
OTHER PRODUCTION CHARGES									
77	MISC PRODUCTION CHARGES	A		249.7		370.8		398.5	U
COMMON ECM EQUIPMENT									
78	COMMON ECM EQUIPMENT	A		11.7		11.7		4.8	U
OTHER PRODUCTION CHARGES - SOF									
79	CANCELLED ACCOUNT PY ADJUSTMENTS	A		7.8					U
DARP									
80	DARP			140.0		128.0		98.4	U
				-----			-----		
TOTAL AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES				983.9	993.9		844.9		
				-----			-----		
TOTAL AIRCRAFT PROCUREMENT, AIR FORCE				8,235.2	8,606.5		9,539.6		

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FY 2001 AMENDED BUDGET REQUEST

FEBRUARY 2000

**SECTION 4:**

**P - 1 LINE ITEM DETAIL**

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**FY 01 AMENDED BUDGET REQUEST  
BUDGET ACTIVITY 01 – COMBAT AIRCRAFT  
FEBRUARY 2000**

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<b>Exhibit P-40, Budget Item Justification</b>							Date: February 2000				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b>							P-1 Line Item Nomenclature <b>F-22 (Raptor)</b>				

Program Element for Code B Items:		N/A			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A		2		10	16	24	36	36	209	333
Cost (\$ M)			572.795		2149.882	2632.648	3327.500	3715.363	3319.129	17762.760	33480.077
Advance Proc Cost (\$ M)		80.772	197.200	277.094	396.222	379.159	985.589	251.874	246.017	0.000	2813.927
Weapon System Cost (\$ M)		80.772	769.995	277.094	2546.104	3011.807	4313.089	3967.237	3565.146	17762.760	36294.004
Initial Spares (\$ M)			24.937	0.000	0.000	0.000	0.000	0.000	0.000	0.000	24.937
Total Proc Cost (\$ M)		80.772	794.932	277.094	2546.104	3011.807	4313.089	3967.237	3565.146	17762.760	36318.941
Flyaway Unit Cost (\$ M)			316.850	0.000	200.301	163.249	131.544	98.959	85.632	77.132	94.347
Wpn Sys Unit Cost (\$ M)			397.466	0.000	254.610	188.238	179.712	110.201	101.560	84.989	109.066

**Description**  
 The F-22 program is developing the next generation multi-mission air superiority fighter for introduction in the early 21st century to counter emerging proliferation 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 of supersonic cruise without the use of afterburner. A total of 333 F-22 aircraft will be produced.

Initial spares are included in the weapon system cost line (except FY99). The F-22 program will not separately budget or contract for initial spares, rather, under interim supply support (ISS) the contractor will provide spares as a service.

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). 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.

**FY 2001 Program Justification**  
 Procure 10 Low Rate Initial Production (LRIP) aircraft and associated support and Advance Procurement to fund procurement of long-lead parts and materials necessary to protect the delivery schedule of the FY 02 buy (16 aircraft).

P-1 Shopping List Item No. 01	<b>Budget Item Justification Exhibit P-40, page 1 of 10</b>
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<b>Exhibit P-5A, Procurement History and Planning</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b>	P-1 Line Item Nomenclature <b>F-22 (Raptor)</b>
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<u><b>Weapon System</b></u>	Subline Item
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F-22											
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available?
Lockheed Martin Corp	2	253.300	ASC/YF	Jan-98	SS	FFP	Lockheed Martin	Dec-98	Nov-01	Yes	
Lockheed Martin Corp	10	162.879	ASC/YF	Mar-99	SS	FFP	Lockheed Martin	Dec-00	Feb-03	Yes	
Lockheed Martin Corp	16	131.658	ASC/YF	Mar-00	SS	FFP	Lockheed Martin	Dec-01	Nov-03	Yes	
Pratt & Whitney	4	16.625	ASC/YF	Dec-97	SS	FFP	Pratt & Whitney	Dec-98	Jan-01	Yes	
Pratt & Whitney	20	10.892	ASC/YF	Jan-00	SS	FFP	Pratt & Whitney	Dec-00	May-02	Yes	
Pratt & Whitney	32	10.144	ASC/YF	Jan-01	SS	FFP	Pratt & Whitney	Dec-01	May-03	Yes	

**Remarks**

Unit cost for the engine differs from the P-5 because the P-5 uses the aircraft qty to determine unit cost and the P-5A uses the engine qty.  
Unit cost does not include non-recurring cost.

Specs are available, however, the technical data package is a 'deferred delivery' option and is currently maintained by the contractor.











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<b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b>	P-1 Line Item Nomenclature <b>F-22 (Raptor)</b>
---	--

**Weapon System F-22**

**Equipment Nomenclature: Unit Training Device (UTD)**

Fin Plan	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total
Quantity			12	3	3	3	11	32
Proc			38.914	22.829	6.733	6.413	14.420	89.309

**TRAINING SYSTEM DESCRIPTION**

Full Mission Trainers (FMT). The FMT is a high fidelity replication of the F-22 cockpit, including all displays and controls accessible to the pilot. It will include a full field-of-view visual display system and its associated image generator. The FMT will be used to train systems operation, takeoff, landing, navigation, air refueling, air combat maneuvering, tactics, weapons delivery, and emergency procedures. To ensure commonality with the aircraft and to reduce cost, the FMT will make substantial reuse of software previously developed for the F-22 weapons system and will make extensive use of commercial off-the-shelf components. The FMTs will be capable of being networked to allow F-22 pilots to train 2-ship and 4-ship tactics on the ground. Future growth to implement Distributed Mission Training (DMT) is planned.

The Weapons Tactics Trainer (WTT) is a lower cost device than the FMT. It will be used in conjunction with academic instruction in the FTU classroom and as a part-task trainer in the FTU and operational squadrons. The WTT will be used primarily to train system operation and beyond-visual-range tactics, with limited capability in other areas. WTTs will be networked in the FTU classrooms to support 2-ship and 4-ship training.

The Egress Procedures Trainer (EPT) is a cockpit mockup with minimal functionality, including only those controls required for training life support and emergency egress procedures.

NOTE: FY 2002 includes the acquisition of one of each type of trainer. FY 2003 includes the acquisition of 3 weapon tactics trainers.

P-1 Shopping List Item No. 01	<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.1, page 8 of 10
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<b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b>	P-1 Line Item Nomenclature <b>F-22 (Raptor)</b>
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**Weapon System F-22**

**Equipment Nomenclature: Unit Training Device (UTD)**

IOC Date											
TRAINING DEVICE BY TYPE	SITE	DELIVERY TIME	READY TRAINING DATE	AVG STUDENT THROUGH PUT	FY 1999		FY 2000		FY 2001		
					QTY	COST	QTY	COST	QTY	COST	
Egress										1	1.273
Weapons										10	14.853
Full Mission Trainers										1	22.788
<b><u>TOTAL</u></b>										12	38.914

P-1 Shopping List Item No. 01	<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.2, page 9 of 10
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<b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b>	P-1 Line Item Nomenclature <b>F-22 (Raptor)</b>

**Weapon System F-22**

**Equipment Nomenclature: Aircrew Trainers**

**Description:**

FINANCIAL PLAN	FY 1999		FY 2000		FY 2001		To Complete		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
<b>Hardware Costs</b>										
Training Systems					12	38.914	20	20.395	32	89.309
<b>Total Hardware Costs</b>					12	38.914	20	20.395	32	89.309
<b>Support Costs</b>										
<b>Total Support Costs</b>										
<b>TOTAL COSTS</b>					12	38.914	20	20.395	32	89.309

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<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 02</b>								P-1 Line Item Nomenclature <b>F-22 (Raptor) Advance Procurement</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Cost (\$ M)											
Advance Proc Cost (\$ M)			197.200	277.094	396.222	379.159	985.589	251.874	246.017		2733.155
Weapon System Cost (\$ M)			197.200	277.094	396.222	379.159	985.589	251.874	246.017		2733.155
Initial Spares (\$ M)											
Total Proc Cost (\$ M)			197.200	277.094	396.222	379.159	985.589	251.874	246.017		2733.155
Flyaway Unit Cost (\$ M)											
Wpn Sys Unit Cost (\$ M)											

**Description**

The F-22 program is developing the next generation multi-mission air superiority fighter for introduction in the early 21st century to counter emerging proliferation 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 of supersonic cruise without the use of afterburner. A total of 333 F-22 aircraft will be produced.

**FY 2001 Program Justification**

Procures long-lead parts and materials necessary to protect the delivery schedule of the FY 02 buy (16 aircraft) and Diminishing Manufacturing Sources (DMS) parts requirements.

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<b>Exhibit P-10 p.1, Advance Procurement Requirements Analysis (Page 1 - Funding)</b>										Date: February 2000		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 02</b>										P-1 Line Item Nomenclature <b>F-22 (Raptor) Advance Procurement</b>		
Weapon System F-22AP					First System Award Date Jun-98					First System Completion Date Nov-01		
(\$ in Millions)												
<u>Description</u>	<u>PLT</u>	<u>When Rqd</u>	<u>Prior Years</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Comp</u>	<u>Total</u>
End Item Qty				2		10	16	24	36	36	209	333
CFE			71.291	176.670	239.694	341.904	267.718	275.444	201.974	203.350	929.225	2707.270
GFE												
EOQ								610.996			341.147	952.143
Design			9.481	20.530	37.400	54.318	111.441	99.149	49.900	42.667	199.099	623.985
Term Liability												
<b>TOTAL AP</b>			<b>80.772</b>	<b>197.200</b>	<b>277.094</b>	<b>396.222</b>	<b>379.159</b>	<b>985.589</b>	<b>251.874</b>	<b>246.017</b>	<b>1469.471</b>	<b>4283.398</b>
<b>Description:</b> CFE represents required funding for Contractor Furnished Equipment (CFE) for both Air Vehicle and Engine. Design line represents funding for Diminishing Manufacturing Sources (DMS). EOQ (Economic Order Quantity) represents cost for upfront Multi-Year Procurement. First system award date reflects advanced buy for Lot 1.												
P-1 Shopping List Item No. 02							<b>Advance Procurement Requirements Analysis (Page 1 - Funding) Exhibit P-10 p.1, page 2 of 3</b>					



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<b>Exhibit P-10 p.2, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)</b>					Date: February 2000	
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 02</b>					P-1 Line Item Nomenclature <b>F-22 (Raptor) Advance Procurement</b>	
Weapon System F-22AP						
(TOA, \$ in Millions)						
<u>Description</u>	<u>PLT</u>	<u>QPA</u>	<u>Unit Cost</u>	<u>FY 2001 QTY</u>	<u>FY 2001 Contract Forecast Date</u>	<u>FY 2001 Total Cost Request</u>
End Item						
CFE			21.369	16	Dec-00	341.904
GFE						
EOQ						
Design			3.395	16	Dec-00	54.318
Term Liability						
TOTAL AP						396.222
<b>Description:</b> Design line represents funding for Diminishing Manufacturing Sources (DMS). CFE represents required funding for Contractor Furnished Equipment (CFE). Contract Forecast Date reflects advanced procurement date for Lot 3. Production leadtime (PLT) is 35 months for Air Vehicle and 27 months for Engine.						
P-1 Shopping List Item No. 02				<b>Advance Procurement Requirements Analysis (Page 2 - Budget Justification) Exhibit P-10 p.2, page 3 of 3</b>		

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<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 03</b>								P-1 Line Item Nomenclature <b>F-15E</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A	1,100		5							1,105
Cost (\$ M)		26219.910		267.286							26487.196
Advance Proc Cost (\$ M)				24.290							24.290
Weapon System Cost (\$ M)		26219.910		291.576							26511.486
Initial Spares (\$ M)											
Total Proc Cost (\$ M)		26219.910		291.576							26511.486
Flyaway Unit Cost (\$ M)				75.700							
Wpn Sys Unit Cost (\$ M)				75.700							

**Description**

The F-15E (Dual Role Fighter) retains the basic air-to-air capability of the F-15 A-D tactical fighter and adds the systems necessary to meet the urgent requirement for all weather deep penetration and night/under-the-weather air-to-surface attack. It is a two seat aircraft configured with missionized cockpits , low altitude navigation, targeting, and infared 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 (CPTs), the F-15E can deploy worldwide with minimal tanker support and arrive combat ready. The program is a Congressional-add to the FY00 for the purchase of attrition reserve F-15Es

**FY 2001 Program Justification**

Not Applicable

P-1 Shopping List Item No. 03

**Budget Item Justification**  
**Exhibit P-40, page 1 of 6**

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<b>Exhibit P-5, Weapon System Cost Analysis</b>							Date: February 2000				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 03</b>							P-1 Line Item Nomenclature <b>F-15E</b>				
Manufacturer's Name/Plant City/State Location							Subline Item				
Weapon System Cost Elements		Ident Code	Total Cost In Millions of Dollars								
			FY 1999			FY 2000			FY 2001		
			Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Avionics	A				5	0.000	TBD				
Airframe/CFE	A				5	0.000	TBD				
Engine/Accessories	A				10	0.000	TBD				
Armament	A										
Software	A										
Other Government Furnished Equipment (GFE)	A				5	0.000	TBD				
Engineering Change Orders (ECO)	A				5	0.000	TBD				
Nonrecurring Costs	A										
Other Costs	A				5	0.000	TBD				
FLYAWAY COST SUBTOTAL	A						0.000				
Advance Buy	A										
Gross P-1 Cost	A										
Less Prior Yr Adv. Proc	A										
Net P-1 Cost	A						267.286				
Anticipated Reprogramming of Adv. Proc.	A						24.290				
TOTAL AVAILABLE FUNDS	A						291.576				
TOTAL PROGRAM											
<b>Comments</b>											
The Air Force is in the initial phase of price negotiation with the contractor and awaiting a detailed cost proposal. Favorable prices and additional resources may be necessary.											
P-1 Shopping List Item No. 03							Weapon System Cost Analysis Exhibit P-5, page 2 of 6				











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<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 04</b>								P-1 Line Item Nomenclature <b>F-15E Advance Procurement</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Cost (\$ M)											
Advance Proc Cost (\$ M)				24.290							24.290
Weapon System Cost (\$ M)				24.290							24.290
Initial Spares (\$ M)											
Total Proc Cost (\$ M)				24.290							24.290
Flyaway Unit Cost (\$ M)				75.000							
Wpn Sys Unit Cost (\$ M)				75.000							

**Description**

This program is a Congressional add for the purchase of additional attrition reserve F-15Es. The service intends to request Congressional approval to use these funds to procure 5 FY00 F-15Es. There is no required funding for FY 2001 procurement of aircraft.

**FY 2001 Program Justification**

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<b>Exhibit P-10 p.1, Advance Procurement Requirements Analysis (Page 1 - Funding)</b>											Date: February 2000	
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 04</b>											P-1 Line Item Nomenclature <b>F-15E Advance Procurement</b>	
Weapon System F15EAP						First System Award Date				First System Completion Date		
(\$ in Millions)												
<u>Description</u>	<u>PLT</u>	<u>When Rqd</u>	<u>Prior Years</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Comp</u>	<u>Total</u>
End Item Qty			1,100		0							1,100
CFE												
GFE												
EOQ												
Design												
Term Liability												
TOTAL AP												
<b>Description:</b> This program is a Congressional add for the purchase of additional attrition reserve F-15Es. The service intends to request Congressional approval to use these funds to procure 5 FY00 F-15Es. There is no required funding for FY 2001 procurement of aircraft.												
P-1 Shopping List Item No. 04						<b>Advance Procurement Requirements Analysis (Page 1 - Funding) Exhibit P-10 p.1, page 2 of 2</b>						

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Exhibit P-40, Budget Item Justification								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 05</b>								P-1 Line Item Nomenclature <b>F-16 C/D (MYP)</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A	2,213	1	10			6	7	7	0	2,244
Cost (\$ M)		32549.900	26.623	238.865			165.975	198.365	203.049		33382.777
Advance Proc Cost (\$ M)		2846.300	14.486	23.317						0.000	2884.103
Weapon System Cost (\$ M)		35396.200	41.109	262.182			165.975	198.365	203.049	0.000	36266.880
Initial Spares (\$ M)		14.710	0.000	0.000	5.850	11.700	14.350	18.650	20.550		85.810
Total Proc Cost (\$ M)		35410.910	41.109	262.182	5.850	11.700	180.325	217.015	223.599	0.000	36352.690
Flyaway Unit Cost (\$ M)		15.970	26.623	25.340	0.000	0.000	27.660	28.340	29.010		
Wpn Sys Unit Cost (\$ M)											

**Description**  
MISSION AND DESCRIPTION: The F-16 Fighting Falcon is the world's premier multi-mission fighter. It is a single-seat, fixed-wing, high performance, single-engine fighter aircraft. In its 25-year history, the F-16 has proven itself in combat in a variety of air-to-air and air-to-surface missions such as defense suppression, armed reconnaissance, close air support, combat air patrol, forward air control, and battle air interdiction (day and night). Also during these years the aircraft has evolved in its capabilities to exploit the advances made in computer, avionics systems, engine, and structures technologies. The F-16 has been selected by 19 air forces around the world. USAF and foreign military sales production will continue well into the 21st century.

**FY 2001 Program Justification**  
FY99 Aircraft Procurement is an Attrition Reserve Aircraft: No initial spares are procured.  
FY99 Advance Procurement was approved as part of the Air Force FY99 OMNIBUS reprogramming package.  
FY00 Aircraft Procurement are Force Structure Aircraft to begin fielding the 10th Suppression of Enemy Air Defense (SEAD) Squadron. Additional 20 aircraft are required and funded in FY03-05.  
FY00 Advance Procurement was a FY00 Congressional Plus-up to the FY00 PB.  
Initial spares (FY01-05) are required to support the 30 Force Structure Aircraft planned in FY00-05.

P-1 Shopping List Item No. 05

**Budget Item Justification**  
**Exhibit P-40, page 1 of 8**

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Exhibit P-5, Weapon System Cost Analysis						Date: February 2000				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number						P-1 Line Item Nomenclature				
Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 05						F-16 C/D (MYP)				
Manufacturer's Name/Plant City/State Location						Subline Item				
Lockheed-Martin Tactical Sys Co., Ft. Worth, TX										
Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars								
		FY 1999			FY 2000			FY 2001		
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Airframe	A	1	15.446	15.446	10	14.685	146.851			
Engine	A	1	4.404	4.404	10	3.820	38.200			
Avionics	A	1	2.000	2.000	10	2.500	25.000			
Armament	A	1	0.000	0.000	10	0.000	0.000			
Software	A	1	0.000	0.000	10	0.000	0.000			
Other Government Furnished Equipment (GFE)	A	1	1.787	1.787	10	1.781	17.814			
Engineering Change Orders (ECO)	A	1	2.986	2.986	10	0.200	2.000			
Nonrecurring Costs	A	1	0.000	0.000	10	0.000	0.000			
Other Costs	A	1	0.000	0.000	10	0.000	0.000			
<b>FLYAWAY COST SUBTOTAL</b>	A			26.623			229.865			
Engine PGSE	A						1.500			
Peculiar Training Equipment	A						7.500			
<b>SUPPORT COST SUBTOTAL</b>	A						9.000			
<b>TOTAL PROGRAM</b>										
<b>Comments</b>										
Airframe includes Time Oriented Tasks (TOTS) & Recurring Manufacturing Support (RMS) (Previously allocated within Nonrecurring Equipment (NRE)).										
Avionics includes Radar Procurement.										
FY99 Aircraft Procurement is an attrition reserve aircraft; no initial spares are purchased.										
FY99 cost subjected to \$3M Congressional Rescission										
FY00 cost subjected to \$7M Congressional cut										
FY00 engine competition reduced cost of Engines										
FY00 Aircraft Procurement are force structure aircraft to begin fielding the 10th Suppression of Enemy Air Defense (SEAD) Squadron.										
P-1 Shopping List Item No. 05						Weapon System Cost Analysis				
						Exhibit P-5, page 2 of 8				

**UNCLASSIFIED**

<b>Exhibit P-5A, Procurement History and Planning</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 05</b>	P-1 Line Item Nomenclature <b>F-16 C/D (MYP)</b>

<u><b>Weapon System</b></u>	Subline Item
F-16	

WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available?
FY1999											
LOCKHEED MARTIN TACTICAL AIRCRAFT SYSTEMS-AIRFRAME	1	15.446	Ft Worth, TX		SS	FFP	LOCKHEED MARTIN TACTICAL AIRCRAFT SYSTEMS, FORT WORTH, TX	Dec-98	May-01	Yes	
GENERAL ELECTRIC-PROPULSION	1	4.404	G.E. Evandale, OH		C	FFP	GENERAL ELECTRIC, EVANDALE, OH	Dec-98	Dec-99	Yes	
FY2000											
LOCKHEED MARTIN TACTICAL AIRCRAFT SYSTEMS - AIRFRAME	10	14.427	Ft Worth, TX		SS	FFP	LOCKHEED MARTIN TACTICAL AIRCRAFT SYSTEMS, FORT WORTH, TX	Apr-00	Apr-02	No	Apr-00
GENERAL ELECTRIC-PROPULSION	10	3.820	G.E., Evandale, OH		C	FFP	GENERAL ELECTRIC , EVANDALE, OH	Dec-99	Dec-00	Yes	
FY2001	0	0.000	N/A		N/A	N/A					

<u><b>Remarks</b></u>











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<b>Exhibit P-21 (5), Production Schedule</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 05</b>	P-1 Line Item Nomenclature <b>F-16 C/D (MYP)</b>

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV	PROC. QTY	ACCEP. PRIOR TO 1 OCT 2006	BALANCE DUE AS OF 1 OCT 2006	FISCAL YEAR 2007												FISCAL YEAR 2008												L A T E R
					CALENDAR YEAR 2007												CALENDAR YEAR 2008												
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
L-M TAC AIR SYS - AIRFRAME FY99	USAF	1	1	0																								0	
L-M TAC AIR SYS - AIRFRAME FY00	USAF	10	10	0																								0	
L-M TAC AIR SYS - AIRFRAME FY01	USAF	0	0	0																								0	
L-M TAC AIR SYS - AIRFRAME FY02	USAF	0	0	0																								0	
L-M TAC AIR SYS - AIRFRAME FY03	USAF	6	6	0																								0	
L-M TAC AIR SYS - AIRFRAME FY04	USAF	7	7	0																								0	
L-M TAC AIR SYS - AIRFRAME FY05	USAF	7	0	7			2	2	2	1																		0	
SINGAPORE II	FMS	18	18	0																								0	
TAIWAN	FMS	150	150	0																								0	
GREECE V	FMS	40	40	0																								0	
EGYPT V	FMS	21	21	0																								0	
TURKEY II	FMS	80	80	0																								0	
KOREAN FIGHTER	FMS	120	120	0																								0	
EGYPT VII	FMS	24	24	0																								0	
<b>TOTAL</b>		<b>31</b>	<b>24</b>	<b>7</b>			<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>																		<b>0</b>	

MANUFACTURER'S NAME	LOCATION	PRODUCTION RATES			REACHED D+	PROCUREMENT LEAD TIME			
		MIN SUST	SHIFT HOURS DAYS	M A X		ADMIN LEAD TIME		MFG TIME	TOTAL AFTER 1 OCT
LOCKHEED MARTIN TACTICAL AIRCRAFT SYSTEMS - AIRFRAME	FORT WORTH, TX	4	1-8-5	2		PRIOR 1 OCT	AFTER 1 OCT		
					INITIAL	3	3	35	38
					REORDER		5	24	29

REMARKS



**UNCLASSIFIED**

<b>Exhibit P-10 p.1, Advance Procurement Requirements Analysis (Page 1 - Funding)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 06</b>	P-1 Line Item Nomenclature <b>F-16 Advance Procurement</b>
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Weapon System F-16AP	First System Award Date	First System Completion Date
-------------------------	-------------------------	------------------------------

(\$ in Millions)

Description	PLT	When Rqd	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
End Item Qty				1	10	0	0	6	7	7		31
CFE												
GFE				14.486	23.317							37.803
EOQ												
Design												
Term Liability												
<b>TOTAL AP</b>				14.486	23.317							37.803

**Description:**  
 FY99 funds are a result of an FY99 Prior Year reprogramming. Advanced buy supports are GFE purchases which are procured in advance of the fiscal year in which the related end item is funded. FY00 Advance Procurement funds were an FY00 Congressional Plus-up.

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**FY 01 AMENDED BUDGET REQUEST  
BUDGET ACTIVITY 02 – AIRLIFT AIRCRAFT  
FEBRUARY 2000**

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<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 07</b>								P-1 Line Item Nomenclature <b>C-17A (MYP)</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:				N/A		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A	57	13	15	12	15	9	5	8		134
Cost (\$ M)		15828.200	2570.406	2670.988	2211.655	2670.598	1859.197	1310.365	2234.336		31355.745
Interim Ctr Support (\$ M)		482.400		396.600	412.200	437.200	440.300				2168.700
Advance Proc Cost (\$ M)		1924.700	302.639	287.300	266.800	145.700	107.500	175.400			3210.039
Weapon System Cost (\$ M)		18235.300	2873.045	3354.888	2890.655	3253.498	2406.997	1485.765	2234.336		36734.484
Initial Spares (\$ M)		733.000	109.921	0.000	0.000	0.000	0.000	0.000	0.000	0.000	842.921
Total Proc Cost (\$ M)		18968.300	2982.966	3354.888	2890.655	3253.498	2406.997	1485.765	2234.336	0.000	37577.405
Flyaway Unit Cost (\$ M)		270.310	202.300	195.800	204.300	199.700	214.600	205.900	260.600	0.000	
Wpn Sys Unit Cost (\$ M)		311.000	222.400	227.200	244.400	231.400	275.000	283.600	301.200	0.000	

**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.

**FY 2001 Program Justification**

Funding will provide for procurement of twelve aircraft in FY01. This reflects the fifth year of the multi-year procurement acquisition contract (FY97-03). This will be the third year of the new support contract, Flexible Sustainment, in which Boeing provides maintenance and material management through partnerships between industry and government depots.

The C-17 program has awarded a single overarching contract for Flexible Sustainment to include all initial spares support as part of the Reengineered Supply Support Process (RSSP). This single contract incorporates all supply support requirements, including all spare parts support, determined by collected failure rates during an interim period. The contractor will provide all spare parts as a service under this contract to achieve agreed to performance criteria.

P-1 Shopping List Item No. 07

**Budget Item Justification  
Exhibit P-40, page 1 of 13**

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Exhibit P-5, Weapon System Cost Analysis							Date: February 2000				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number							P-1 Line Item Nomenclature				
Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 07							C-17A (MYP)				
Manufacturer's Name/Plant City/State Location						Subline Item					
Boeing Airlift and Tankers / Long Beach, CA											
Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars									
		FY 1999			FY 2000			FY 2001			
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	
1.0 Airframe	A	13	173.515	2255.700	15	166.633	2499.500	12	175.017	2100.200	
2.0 Engine (4) (Model F-117-PW-100)	A	52	4.787	248.900	60	5.043	302.600	48	5.242	251.600	
3.0 Avionics	A	13	6.992	90.900	15	6.853	102.800	12	7.250	87.000	
4.0 Engineering Change Orders (ECO)	A			0.000			0.000			0.000	
5.0 Product Improvement	A	13	2.105	27.370	15	2.415	36.220	12	2.688	32.250	
6.0 Nonrecurring Flyaway	A			0.000			0.000			0.000	
7.0 Settlement	A			0.000			0.000			0.000	
8.0 Flyaway Cost Subtotal (1 thru 7)	A			2622.870			2941.120			2471.050	
9.0 Peculiar Support Equipment	A			14.600			3.000			2.900	
10.0 Common Support Equipment	A			2.800			2.300			0.000	
11.0 Training	A			28.700			60.600			40.800	
12.0 Data	A			6.925			9.109			5.850	
13.0 Field Support	A			0.000			0.000			0.000	
14.0 Flex Sustainment/Interim Sup Spt	A			206.160			0.000			11.100	
15.0 Mission Support	A			12.496			13.498			12.195	
16.0 Support Cost Subtotal (9 thru 15)	A			271.681			88.507			72.845	
17.0 Gross P-1 Cost (8 + 16)	A	13		2894.551	15		3029.627	12		2543.895	
18.1 LESS: Prior Year Adv Procurement	A			-275.145			-302.639			-287.240	
18.2 LESS: EOQ Payback	A			-49.000			-56.000			-45.000	
19.0 Net P-1 Cost (17 + 18)	A			2570.406			2670.988			2211.655	
20.0 Advance Procurement, Current Year	A			302.639			287.300			266.800	
Other P-1 Weapon System Costs	A						396.600			412.200	
21.1 Initial Spares (BP16)	A			109.921			0.000			0.000	
21.2 Modifications (BP11)	A			51.250			95.040			97.124	

P-1 Shopping List Item No. 07

**Weapon System Cost Analysis**

**Exhibit P-5, page 2 of 13**



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<b>Exhibit P-5, Weapon System Cost Analysis</b>					Date: February 2000				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 07</b>					P-1 Line Item Nomenclature <b>C-17A (MYP)</b>				
TOTAL PROGRAM				3034.216			3449.928		2987.779

Comments

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<b>Exhibit P-5A, Procurement History and Planning</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 07</b>	P-1 Line Item Nomenclature <b>C-17A (MYP)</b>

<u>Weapon System</u>				Subline Item							
C-17A											
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available?
FY 1998											
Air Vehicle	9	201.534	AFMC/ASC		SS	FFP	Boeing - Airlift and Tankers, Long Beach, CA	Dec-97	Apr-99		
Propulsion	36	4.669	AFMC/ASC		SS	FFP	Pratt & Whitney	Dec-97	Jul-98		
FY 1999											
Air Vehicle	13	180.507	AFMC/ASC		SS	FFP	Boeing - Airlift and Tankers, Long Beach, CA	Dec-98	Jun-00		
Propulsion	52	4.787	AFMC/ASC		SS	FFP	Pratt & Whitney	Dec-98	Jul-99		
FY 2000											
Air Vehicle	15	173.486	AFMC/ASC		SS	FPIS	Boeing - Airlift and Tankers, Long Beach, CA	May-00	Jul-01		
Propulsion	60	5.043	AFMC/ASC		SS	FFP	Pratt & Whitney	Nov-99	Jul-00		
FY 2001											
Air Vehicle	12	182.267	AFMC/ASC		SS	FPIS	Boeing - Airlift and Tankers, Long Beach, CA	Jan-01	Aug-02		
Propulsion	48	5.242	AFMC/ASC		SS	FFP	Pratt & Whitney	Nov-00	Jul-01		

**Remarks**

-- Air Vehicle Unit Cost is total of Airframe and Avionics unit costs from P-5 Exhibit

-- 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 procured in each fiscal year

-- The Air Vehicle Contract Type in FY00 & FY01 is Fixed Price Incentive (Successive Target)

-- 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 engines procured in each fiscal year

-- The Propulsion Contract Type is Firm Fixed Price with Escalation







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<b>Exhibit P-21 (4), Production Schedule</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 07</b>	P-1 Line Item Nomenclature <b>C-17A (MYP)</b>

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV	PROC. QTY	ACCEP. PRIOR TO 1 OCT 2004	BALANCE DUE AS OF 1 OCT 2004	FISCAL YEAR 2005												FISCAL YEAR 2006												L A T E R
					CALENDAR YEAR 2005												CALENDAR YEAR 2006												
					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E						
T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	Y	N	L	G	P	E						
FY 2003 / Lot XV																													
C-17 / Boeing - Airlift and Tankers	USAF	8	4	4		1			1			1																	
FY 2003 / Add'l SOLL II Aircraft																													
C-17 / Boeing - Airlift and Tankers	USAF	1	0	1									1																
FY 2004 / Add'l SOLL II Aircraft																													
C-17 / Boeing - Airlift and Tankers	USAF	5	0	5										1		1			1			1							
FY 2005 / Add'l SOLL II Aircraft																													
C-17 / Boeing - Airlift and Tankers	USAF	8	0	8																			1	1					
<b>TOTAL</b>		<b>22</b>	<b>4</b>	<b>18</b>		<b>1</b>			<b>1</b>			<b>1</b>			<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>		<b>1</b>	<b>6</b>					

MANUFACTURER'S NAME	LOCATION	PRODUCTION RATES			REACHED D+	PROCUREMENT LEAD TIME																		
		MIN SUST	SHIFT HOURS DAYS	M A X		ADMIN LEAD TIME		MFG TIME	TOTAL AFTER 1 OCT	INITIAL REORDER														
Boeing - Airlift and Tankers	Long Beach, CA	6	1/8/5	15																				

**REMARKS**  
 The forecast delivery dates for the additional 14 Special Operations Low Level (SOLL) II aircraft are only projected dates, these aircraft have not been placed on contract.  
 The forecast delivery dates reflect the MYP contract dates with the exception of the Lot XV deliveries. Actual deliveries have been earlier.  
 The FY03 - FY05 production deliveries reflect a lower production rate.

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<b>Exhibit P-21 (5), Production Schedule</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 07</b>	P-1 Line Item Nomenclature <b>C-17A (MYP)</b>

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV	PROC. QTY	ACCEP. PRIOR TO 1 OCT 2006	BALANCE DUE AS OF 1 OCT 2006	FISCAL YEAR 2007														FISCAL YEAR 2008												L A T E R
					CALENDAR YEAR 2007														CALENDAR YEAR 2008												
					O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
FY 2005 / Add'l SOLL II Aircraft																															
C-17 / Boeing - Airlift and Tankers	USAF	8	2	6		1			1	1			1			1	1											0			
<b>TOTAL</b>																															
										</																					

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<b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 07</b>	P-1 Line Item Nomenclature <b>C-17A (MYP)</b>
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**Weapon System C-17A**

**Equipment Nomenclature: Unit Training Device (UTD)**

Fin Plan	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total
Quantity	1	1	2	0	0	0	0	4
Proc	28.700	60.600	40.800	23.200	11.900	1.100	0.000	166.300

**TRAINING SYSTEM DESCRIPTION**

Aircrew Training System (ATS); (Quantity of 4 in above table):

Provides initial and continuous training for C-17 aircrew members. Training will be totally contractor administered and supported, with Air Mobility Command (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 (CSSs). The blend or mix of the components depend on the base or schoolhouse that they are being delivered to. The bases are: Charleston AFB, Altus AFB, McChord AFB, and Jackson AFB.

Maintenance Training System (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.

P-1 Shopping List Item No. 07	<b>Simulator and Training Device Justification (\$ M)</b>
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Exhibit P-43 p.1, page 10 of 13



**UNCLASSIFIED**

<b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 07</b>	P-1 Line Item Nomenclature <b>C-17A (MYP)</b>
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**Weapon System C-17A**

**Equipment Nomenclature: Unit Training Device (UTD)**

IOC Date										
TRAINING DEVICE BY TYPE	SITE	DELIVERY TIME	READY TRAINING DATE	AVG STUDENT THROUGH PUT	FY 1999		FY 2000		FY 2001	
					QTY	COST	QTY	COST	QTY	COST
AIRCREW	Charleston AFB						1	14.800		
AIRCREW	Altus AFB				1	14.700				
AIRCREW	McChord AFB								1	14.900
AIRCREW	Jackson AFB								1	14.900
Concurrency and Software						14.000		45.800		11.000
<u>TOTAL</u>					1	28.700	1	60.600	2	40.800

P-1 Shopping List Item No. 07

**Simulator and Training Device Justification (\$ M)**

Exhibit P-43 p.2, page 11 of 13

**UNCLASSIFIED**

<b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b>							Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 07</b>							P-1 Line Item Nomenclature <b>C-17A (MYP)</b>			
<b>Weapon System C-17A</b>										
<b>Equipment Nomenclature: Aircrew Trainers</b>										
<b>Description:</b>										
Aircrew Training System (ATS): Provides initial and continuous training to C-17 aircrews.										
FINANCIAL PLAN	FY 1999		FY 2000		FY 2001		To Complete		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
<b>Hardware Costs</b>										
Device (Hardware)	1	14.700	1	14.800	2	29.800				
Concurrency Updates		5.900		11.500		2.200		18.100		
<b>Total Hardware Costs</b>	1	20.600	1	26.300	2	32.000		18.100		
<b>Support Costs</b>										
<b>Total Support Costs</b>										
<b>TOTAL COSTS</b>	1	20.600	1	26.300	2	32.000		18.100		
P-1 Shopping List Item No. 07							Simulator and Training Device Justification (\$ M)			
							Exhibit P-43 p.3, page 12 of 13			

**UNCLASSIFIED**

<b>Exhibit P-43 p.4, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 07</b>	P-1 Line Item Nomenclature <b>C-17A (MYP)</b>
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**Weapon System C-17A**

**Equipment Nomenclature: Maintenance**

**Description:**

Maintenance Training System (MTS): Upgrades the devices necessary to reduce the maintenance manning level and training required to the lowest level.

FINANCIAL PLAN	FY 1999		FY 2000		FY 2001		To Complete		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
<b>Hardware Costs</b>										
Device (Hardware)										
Concurrency Updates		8.100		34.300		8.800		18.100		
<b>Total Hardware Costs</b>		8.100		34.300		8.800		18.100		
<b>Support Costs</b>										
<b>Total Support Costs</b>										
<b>TOTAL COSTS</b>		8.100		34.300		8.800		18.100		

P-1 Shopping List Item No. 07	<b>Simulator and Training Device Justification (\$ M)</b>
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Exhibit P-43 p.4, page 13 of 13

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<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 08</b>								P-1 Line Item Nomenclature <b>C-17 Advance Procurement</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Cost (\$ M)											
Interim Ctr Support (\$ M)											
Advance Proc Cost (\$ M)			302.639	287.300	266.800	145.700	107.500	175.400			1285.339
Weapon System Cost (\$ M)			302.639	287.300	266.800	145.700	107.500	175.400			1285.339
Initial Spares (\$ M)											
Total Proc Cost (\$ M)			302.639	287.300	266.800	145.700	107.500	175.400			1285.339
Flyaway Unit Cost (\$ M)											
Wpn Sys Unit Cost (\$ M)											

**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.

**FY 2001 Program Justification**

FY 01 funding will provide for the advance procurement for the 15 aircraft to be procured in the FY 02 lot buy.

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<b>Exhibit P-10 p.1, Advance Procurement Requirements Analysis (Page 1 - Funding)</b>										Date: February 2000		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 08</b>										P-1 Line Item Nomenclature <b>C-17 Advance Procurement</b>		
Weapon System C-17AP					First System Award Date					First System Completion Date		
(\$ in Millions)												
<u>Description</u>	<u>PLT</u>	<u>When Rqd</u>	<u>Prior Years</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Comp</u>	<u>Total</u>
End Item Qty			57	13	15	12	15	9	5	8		134
CFE			1773.300	276.900	277.500	266.800	145.700	95.000	152.000			2987.200
GFE			151.400	25.739	9.800	0.000	0.000	12.500	23.400			222.839
EOQ												
Design												
Term Liability												
<b>TOTAL AP</b>			1924.700	302.639	287.300	266.800	145.700	107.500	175.400			3210.039
<b>Description:</b> The original C-17 funding provided for 15 aircraft procurement in FY01. The Air Force deferred purchase of three C-17 FY01 aircraft to FY03 to fund more immediate service priorities, while maintaining the integrity of the current multi-year contract.  To ensure the original delivery schedule is unaffected, the Air Force intends to obligate all of the appropriated FY00 advance buy funds to protect a 15-5-5 buy profile even though the proposed FY01 President's Budget buy profile will be 12-15-8 (FY01 - 03). By obligating funds for the advanced buy of 15 aircraft, the Air Force fully protects the vendor base and ensures no break in the original production delivery schedule.  First System Award Date reflects the planned Lot XIII (FY2001 aircraft buy) contract obligation date.  First System Completion Date reflects the first aircraft delivery for Lot XIII (FY2001 aircraft buy).												
P-1 Shopping List Item No. 08							<b>Advance Procurement Requirements Analysis (Page 1 - Funding) Exhibit P-10 p.1, page 2 of 3</b>					

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<b>Exhibit P-10 p.2, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 08</b>	P-1 Line Item Nomenclature <b>C-17 Advance Procurement</b>
--	---

Weapon System  
C-17AP

(TOA, \$ in Millions)

<u>Description</u>	<u>PLT</u>	<u>QPA</u>	<u>Unit Cost</u>	<u>FY 2001 QTY</u>	<u>FY 2001 Contract Forecast Date</u>	<u>FY 2001 Total Cost Request</u>
End Item				12	Jan-01	266.800
CFE						266.800
GFE						0.000
EOQ						
Design						
Term Liability						
TOTAL AP						266.800

**Description:**

P-1 Shopping List Item No. 08

**Advance Procurement Requirements Analysis  
(Page 2 - Budget Justification)  
Exhibit P-10 p.2, page 3 of 3**

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Exhibit P-40, Budget Item Justification								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 09</b>								P-1 Line Item Nomenclature <b>C-17 ICS</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Cost (\$ M)											
Interim Ctr Support (\$ M)				396.600	412.200	437.200	440.300				1686.300
Advance Proc Cost (\$ M)											
Weapon System Cost (\$ M)				396.600	412.200	437.200	440.300				1686.300
Initial Spares (\$ M)											
Total Proc Cost (\$ M)				396.600	412.200	437.200	440.300				1686.300
Flyaway Unit Cost (\$ M)											
Wpn Sys Unit Cost (\$ M)											

**Description**  
 The C-17 Flexible Sustainment creates a C-17 commercial-like support structure that maintains the desired aircraft configuration using ICS+ and cost control incentives. ICS+ is traditional ICS with the addition of Public-Private Partnerships (PPPs) between the prime contractor and the ALC infrastructure. The prime contractor has program and materiel management and management responsibilities, using a series of fixed price incentive and fixed price contracts over an eight-year period, based on agreed -to weapon system performance standards and within the C-17 budget.

Flexible Sustainment has been on contract since Dec 97 and is now building toward a proof of concept period (FY01-03). A long term depot support decision is planned for FY03.

**FY 2001 Program Justification**  
 The C-17 program has awarded a single overarching contract for Flexible Sustainment to include all initial spares support as part of the Reengineered Supply Support Process (RSSP). This single contract incorporates all supply support requirements, including all spare parts support, determined by collected failure rates during an interim period. The contractor will provide all spare parts as a service under this contract to achieve agreed to performance criteria.

P-1 Shopping List Item No. 09

**Budget Item Justification**  
**Exhibit P-40, page 1 of 1**

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<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 10</b>								P-1 Line Item Nomenclature <b>WC-130J</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:				41132F		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A	8	1								9
Total Proc Cost (\$ M)		421.700	74.451								496.151

**Description**

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

Lockheed Martin Aeronautical Systems built the basic C-130J platform and under a separate contract, converted the aircraft into the WC-130J Weatherbird configuration.

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

One C-130J in FY97 was procured and transferred to the WC-130J mission.

**FY 2001 Program Justification**

An additional WC-130J was funded in FY97 in the C-130J line for a total of 10 WC-130J's.

Logistics and training support for the 10 WC-130J aircraft is included in the FY01 C-130J budget request.

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Exhibit P-5, Weapon System Cost Analysis						Date: February 2000					
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number						P-1 Line Item Nomenclature					
<b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 10</b>						<b>WC-130J</b>					
Manufacturer's Name/Plant City/State Location					Subline Item						
Lockheed Martin Aeronautical Systems/Marietta/Georgia					WC-130J (BPAC 10400W)						
Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars									
		FY 1999			FY 2000			FY 2001			
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	
Avionics	A	1		52.900							
Armament	A										
Software	A										
Other Government Furnished Equipment (GFE)	A										
Engineering Change Orders (ECO)	A										
Nonrecurring Costs	A			12.700							
Other Costs	A			0.200							
<b>FLYAWAY COST SUBTOTAL</b>	A			<b>65.800</b>							
Airframe Peculiar Ground Support Equipment (PGSE)	A			4.500							
Engine PGSE	A										
Peculiar Training Equipment	A										
Publications/Technical Data	A										
ECOs	A										
ICS	A			3.100							
ISS	A										
Other	A			1.051							
<b>SUPPORT COST SUBTOTAL</b>	A			<b>8.651</b>							
MODs	A										
Initial Spares	A										
<b>TOTAL PROGRAM</b>				<b>74.451</b>							
<b>Comments</b>											

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<b>Exhibit P-5A, Procurement History and Planning</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 10</b>	P-1 Line Item Nomenclature <b>WC-130J</b>

<u>Weapon System</u>				Subline Item							
WC130J											
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available?
Lockheed Martin Aeronautical Systems	3	44.200	WPAFB	May-95	C	FFP	Lockheed Martin Aeronautical Systems , Marietta GA	Aug-97	Oct-99	Yes	
Lockheed Martin Aeronautical Systems	1	47.100	WPAFB	May-95	C	FFP	Lockheed Martin Aeronautical Systems, Marietta GA	Aug-97	Nov-99	Yes	
Lockheed Martin Aeronautical Systems	3	47.400	WPAFB	May-95	C	FFP	Lockheed Martin Aeronautical Systems , Marietta GA	Aug-97	Oct-99	Yes	
Lockheed Martin Aeronautical Systems	2	48.200	WPAFB	May-95	C	FFP	Lockheed Martin Aeronautical Systems , Marietta GA	Dec-97	Dec-99	Yes	
Lockheed Martin Aeronautical Systems	1	50.000	WPAFB	May-95	C	FFP	Lockheed Martin Aeronautical Systems , Marietta GA	Jul-99	Dec-00	Yes	

**Remarks**  
One WC-130J was procured with FY97 C-130J Air Force funds and was transferred to AFRC for the weather reconnaissance mision.

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<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 11</b>								P-1 Line Item Nomenclature <b>EC-130J</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:				41132F		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A	2	1	1							4
Total Proc Cost (\$ M)		141.300	83.931	87.075							312.306

**Description**

The EC-130J is a derivative of the C-130J. The aircraft is used to conduct special missions such as psychological operations, civil affairs radio and television broadcasts, Command and Control Countermeasures and limited intelligence gathering.

Lockheed Martin Aeronautical Systems provides the basic C-130J platform to the Air Force. Under a separate contract, Lockheed Martin Skunk Works converts the aircraft into the EC-130J Commando Solo configuration. This conversion includes removing existing mission equipment from EC-130E Commando Solos and integrating them onto the EC-130J aircraft.

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

**FY 2001 Program Justification**

These aircraft are congressionally added.

Logistics and training support for the EC-130J aircraft is included in the FY01 C-130J budget request.

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<b>Exhibit P-5, Weapon System Cost Analysis</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 11</b>	P-1 Line Item Nomenclature <b>EC-130J</b>
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Manufacturer's Name/Plant City/State Location Lockheed Martin Aeronautical Systems, Marietta GA	Subline Item
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Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars								
		FY 1999			FY 2000			FY 2001		
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Avionics	A	1		73.000	1		74.190			
Armament	A									
Software	A									
Other Government Furnished Equipment (GFE)	A									
Engineering Change Orders (ECO)	A			0.900			1.000			
Nonrecurring Costs	A									
Other Costs	A									
<b>FLYAWAY COST SUBTOTAL</b>	A			73.900			75.190			
Airframe Peculiar Ground Support Equipment (PGSE)	A			2.400						
Engine PGSE	A									
Peculiar Training Equipment	A									
Publications/Technical Data	A			7.631			1.001			
ECOs	A									
Other	A						10.884			
<b>SUPPORT COST SUBTOTAL</b>	A			10.031			11.885			
MOD	A									
<b>TOTAL PROGRAM</b>				83.931			87.075			

**Comments**

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<b>Exhibit P-5A, Procurement History and Planning</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 11</b>								P-1 Line Item Nomenclature <b>EC-130J</b>			
<u>Weapon System</u>						Subline Item					
EC130J											
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available?
Lockheed Martin Aeronautical Systems	1	48.700	WPAFB	May-95	C	FFP	Lockheed Martin Aeronautical Systems, Marietta GA	Dec-97	Oct-99	Yes	
Lockheed Martin Aeronautical Systems	1	48.200	WPAFB	May-95	C	FFP	Lockheed Martin Aeronautical Systems, Marietta GA	Dec-97	Dec-99	Yes	
Lockheed Martin Aeronautical Systems	1	47.900	WPAFB	May-95	C	FFP	Lockheed Martin Aeronautical Systems, Marietta GA	Jul-99	Jun-00	Yes	
Lockheed Martin Aeronautical Systems	1		WPAFB	May-95	C	FFP	Lockheed Martin Aeronautical Systems, Marietta GA			Yes	
<u>Remarks</u>											
<p>FY00 funding was congressionally added. The aircraft unit cost, award date, and delivery date are to be determined.</p> <p>The Commando Solo conversion is being split into two phases: Phase I for the first two aircraft was placed on contract with Lockheed Martin Skunk Works in Sep 99. It includes aircraft generator and intercom system upgrades, an augmented crew station, and the installation of an in-flight refueling receptacle. Phase 2, the mission equipment integration effort, will be placed on contract with Lockheed Martin Skunk Works by Aug 00.</p>											
P-1 Shopping List Item No. 11						Procurement History and Planning Exhibit P-5A, page 3 of 5					





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Exhibit P-40, Budget Item Justification									Date: February 2000		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 13</b>									P-1 Line Item Nomenclature <b>C-130J</b>		
Program Element for Code B Items:		N/A			Other Related Program Elements:				41132F		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A	3			2	2	2	4	6	TBD	TBD
Cost (\$ M)		186.300	29.062	46.351	208.051	206.326	225.264	308.933	519.105	TBD	TBD
Advance Proc Cost (\$ M)		0.000								TBD	TBD
Weapon System Cost (\$ M)		186.300	29.062	46.351	208.051	206.326	225.264	308.933	519.105	TBD	TBD
Initial Spares (\$ M)		15.200	60.674		0.000	0.000	0.000	0.000	0.000	TBD	TBD
Total Proc Cost (\$ M)		201.500	89.736	46.351	208.051	206.326	225.264	308.933	519.105	TBD	TBD
Flyaway Unit Cost (\$ M)		44.200			62.000	64.000	66.250	67.150	68.633		
Wpn Sys Unit Cost (\$ M)		69.000			104.026	103.163	112.632	77.233	86.518		
<b>Description</b>											
The C-130J provides immediate and responsive air movement and delivery of combat troops and supplies directly into objective areas using various airland and airdrop techniques. It provides 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 turboprop engines. The C-130J has set more than 50 world records for speed and short takeoff and landing (STOL) capability. The Air Force is the designated Executive Service for the C-130J production contract.											
<b>FY 2001 Program Justification</b>											
The C-130J program, through its five year option contract, supports all initial spares needs as part of the Reengineered Supply Support Process (RSSP). This contract incorporates all supply support requirements, including all spare parts, determined by collected failure rates during an interim period. The contractor will provide all spare parts as a service under this contract to achieve an 86% mission capable rate. To fund this 'spares as a service' concept, referred to as Interim Supply Support (ISS), the funds previously identified for initial spares beginning in FY2000 have been transferred in total to the C-130J procurement line. ISS funding is shown on Exhibit P-5. The 2001 budget contains 2 C-130J-30 aircraft, as well as logistics and training support for the 29 Air Reserve Command C-130J fleet. This includes 10 WC-130Js, 4 EC-130Js, and 15 C-130Js. These aircraft were appropriated as follows:											
Aircraft	Qty	FY	Comment								
C-130J	2	94	AF swapped 2 C-130H3 with ANG for these aircraft. Aircraft now in AFRC.								
C-130J	2	96	Included in Prior Years column above								
WC-130J	3	96	AFRC								
C-130J	4	97	ANG (Guard and Reserve Equipment account)								
WC-130J	4	97	AFRC (One was an active duty C-130J, designated a WC-130J, provided to AFRC)								
EC-130J	1	97	ANG								
C-130J	4	98	ANG (Guard and Reserve Equipment account)								
WC-130J	2	98	AFRC								
P-1 Shopping List Item No. 13									Budget Item Justification Exhibit P-40, page 1 of 11		

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<b>Exhibit P-40, Budget Item Justification</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 13</b>	P-1 Line Item Nomenclature <b>C-130J</b>

**FY 2001 Program Justification Continued**

EC-130J	1	98	ANG
C-130J-30	3	99	ANG (Guard and Reserve Equipment account)
WC-130J	1	99	AFRC
EC-130J	1	99	ANG
EC-130J	1	00	ANG
TOTAL	29		

P-1 Shopping List Item No. 13

Budget Item Justification  
Exhibit P-40, page 2 of 11

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Exhibit P-5, Weapon System Cost Analysis							Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 13</b>							P-1 Line Item Nomenclature <b>C-130J</b>			
Manufacturer's Name/Plant City/State Location					Subline Item					
Lockheed Martin Aeronautical Systems/Marietta/Georgia					C-130J (BPAC 10400C)					
Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars								
		FY 1999			FY 2000			FY 2001		
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Avionics	A	0		0.000	0		0.000	2		119.040
Armament	A									
Software	A									
Other Government Furnished Equipment (GFE)	A									
Engineering Change Orders (ECO)	A									4.960
Nonrecurring Costs	A									
Other Costs	A									
<b>FLYAWAY COST SUBTOTAL</b>	A			0.000			0.000			124.000
Airframe Peculiar Ground Support Equipment (PGSE)	A									
Engine PGSE	A									
Peculiar Training Equipment	A	1		29.062			12.900	1		30.600
Publications/Technical Data	A						1.600			1.000
ECOs	A			0.000						
ICS	A			0.000			3.000			5.900
ISS	A			0.000			21.651			38.551
Other	A						7.200			8.000
<b>SUPPORT COST SUBTOTAL</b>	A			29.062			46.351			84.051
Initial Spares	A			60.674						
<b>TOTAL PROGRAM</b>				89.736			46.351			208.051

**Comments**

Effective 1 Oct 99, initial spares requirements migrate to Interim Supply Support (ISS) under the Reengineered Supply Support Process (RSSP) umbrella in BP10.

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<b>Exhibit P-5A, Procurement History and Planning</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 13</b>								P-1 Line Item Nomenclature <b>C-130J</b>			
<u>Weapon System</u>						Subline Item					
C-130J											
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available?
Lockheed Martin Aeronautical Systems	2	44.200	WPAFB	May-95	C	FFP	Lockheed Martin Aeronautical Systems, Marietta, GA	Nov-96	Jan-99	Yes	
Lockheed Martin Aeronautical Systems	2		WPAFB	May-00	C	FFP	Lockheed Martin Aeronautical Systems, 86 South Cobb Drive	Dec-00	Oct-02	Yes	
<u>Remarks</u>											
Air Vehicle:											
a. FY96 aircraft 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. New Five Year Option Contract required for future buys.											
c. One FY97 Air Force active duty C-130J was designated a WC-130J and provided to AFRC.											
d. No Air Force C-130J aircraft were programmed FY98 through FY00.											
e. All combat delivery aircraft after FY99 will be procured as stretch C-130J-30s; plan is to have one FY04 and one FY05 aircraft procured as EC-130Js.											
FY											
0 2											
0 2											
0 2											
0 4											
0 6											
P-1 Shopping List Item No. 13						Procurement History and Planning Exhibit P-5A, page 4 of 11					











**UNCLASSIFIED**

<b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 13</b>	P-1 Line Item Nomenclature <b>C-130J</b>

**Weapon System C-130J**

**Equipment Nomenclature: Unit Training Device (UTD)**

Fin Plan	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total
Quantity	1	0	1	1	1	0	3	7
Proc	29.062	12.900	30.600	18.000	23.300	0.000	44.200	158.062

**TRAINING SYSTEM DESCRIPTION**

The C-130J Maintenance and Aircrew Training System (MATS) will include maintenance and aircrew training devices, aircrew courseware and instruction, contractor logistics support, and operation of a Training System Support Center.

Required Training Devices

FY99 - 1 Weapon System Trainer

FY01 - 1 Weapon System Trainer, 1 Avionics Systems Management Trainer

FY02 - 1 Integrated Cockpit Maintenance Training Device

FY03 - 1 Fuselage Trainer, 1 Cockpit Procedures Trainer

FY04 - 1 Engine/Propeller Maintenance Trainer

FY05 - 1 Landing Gear Maintenance Training Device, 1 Engine/Propeller Maintenance Trainer, 1 Fuselage Maintenance Training Device

P-1 Shopping List Item No. 13	<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.1, page 9 of 11
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<b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 13</b>	P-1 Line Item Nomenclature <b>C-130J</b>
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**Weapon System C-130J**

**Equipment Nomenclature: Unit Training Device (UTD)**

IOC Date										
TRAINING DEVICE BY TYPE	SITE	DELIVERY TIME	READY TRAINING DATE	AVG STUDENT THROUGH PUT	FY 1999		FY 2000		FY 2001	
					QTY	COST	QTY	COST	QTY	COST
AIRCREW	KAFB, MS	Mar-02	Sep-02	40	1	29.062				
AIRCREW	LRAFB, AR	Jun-03	Dec-03						1	26.700
<u>TOTAL</u>					1	29.062			1	26.700



P-1 Shopping List Item No. 13	<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.2, page 10 of 11
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<b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b>							Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 13</b>							P-1 Line Item Nomenclature <b>C-130J</b>			
<b>Weapon System C-130J</b>										
<b>Equipment Nomenclature: Aircrew Trainers</b>										
<b>Description:</b>										
Initial program contains 2 Weapon System Trainer and 1 Avionics System Management Trainer.										
FINANCIAL PLAN	FY 1999		FY 2000		FY 2001		To Complete		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
<b>Hardware Costs</b>										
WST	1	28.140			1	26.700	TBD	TBD	TBD	TBD
<b>Total Hardware Costs</b>	1	28.140			1	26.700	0	0.000	0	0.000
<b>Support Costs</b>										
Aircrew Courseware				8.220			TBD	TBD	TBD	TBD
Currency Mgt				0.630		0.700				
Other		0.922		4.050		3.200				
<b>Total Support Costs</b>		0.922		12.900		3.900	0	0.000	0	0.000
							TBD	TBD	TBD	TBD
<b>TOTAL COSTS</b>	1	29.062		12.900	1	30.600	0	0.000	0	0.000
P-1 Shopping List Item No. 13							Simulator and Training Device Justification (\$ M)			
							Exhibit P-43 p.3, page 11 of 11			

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**FY 2001 AMENDED BUDGET REQUEST  
BUDGET ACTIVITY 03 – TRAINER AIRCRAFT  
FEBRUARY 2000**

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<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 14</b>								P-1 Line Item Nomenclature <b>Joint Primary Aircraft Training System (JPATS)</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:				64233F (RDT&E)		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A	46	22	29	27	48	55	50	50	45	372
Cost (\$ M)		229.900	108.174	111.370	113.825	216.389	240.158	225.462	234.000	242.200	1721.478
Advance Proc Cost (\$ M)		0.000								0.000	0.000
Weapon System Cost (\$ M)		229.900	108.174	111.370	113.825	216.389	240.158	225.462	234.000	242.200	1721.478
Initial Spares (\$ M)		0.000	0.000	0.000	0.000	0.000	60.801	23.628	24.353	25.200	133.982
Total Proc Cost (\$ M)		229.900	108.174	111.370	113.825	216.389	300.959	249.090	258.353	267.400	1855.460
Flyaway Unit Cost (\$ M)		4.493	2.936	2.586	2.778	3.858	3.918	3.988	4.072	4.233	
Wpn Sys Unit Cost (\$ M)		4.998	4.920	3.840	4.508	4.508	5.472	4.981	5.168	5.942	
<b>Description</b>											
Supports Air Education and Training Command's (AETC) implementation of Specialized Undergraduate Pilot Training, (SUPT) and the Department of Defense initiative for joint pilot training. The Joint Primary Aircraft Training System (JPATS) is a joint USAF/USN venture to replace the Services' fleets of primary trainer aircraft (T-37/T-34 respectively) and associated Ground Based Training Systems (GBTS). The USAF's T-37 aircraft average over 35 years of age. They have antiquated, increasingly unsupportable and non-representative avionics, as well as, underpowered and fuel inefficient engines. Cockpits are unpressurized, resulting in the largest number of physiological incidents in the Air Force. The USAF is the Executive Service.											
<b>FY 2001 Program Justification</b>											
Will procure 27 aircraft and associated support with FY 2001 funds. Aircraft are required to begin training at Laughlin AFB, TX. FY 2000 funds will be used (in accordance with Congressional language) to fund one FY 2001 aircraft taking total FY 2001 buy to 28. In FY 2000 Congress authorized and appropriated the purchase of 29 aircraft. However, contract limitations in the FY 2000 variation in Quantity Matrix limited the FY 2000 purchase to 28.											
P-1 Shopping List Item No. 14								<b>Budget Item Justification</b> <b>Exhibit P-40, page 1 of 12</b>			

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<b>Exhibit P-5, Weapon System Cost Analysis</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 14</b>	P-1 Line Item Nomenclature <b>Joint Primary Aircraft Training System (JPATS)</b>

Manufacturer's Name/Plant City/State Location Raytheon Aircraft Company/Wichita/Kansas	Subline Item
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Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars								
		FY 1999			FY 2000			FY 2001		
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Aircraft	A	22	2.936	64.600	29	2.586	75.000	27	2.778	75.000
FLYAWAY COST SUBTOTAL	A			64.600			75.000			75.000
Other	A			11.600			14.170			3.425
SUPPORT COST SUBTOTAL	A			11.600			14.170			3.425
Ground Based Training System	A			32.000			22.200			35.400
<b>TOTAL PROGRAM</b>				108.200			111.370			113.825

**Comments**

'Other' includes air vehicle support, contractor logistics support, and mission support.

Will procure 27 aircraft and associated support with FY 2001 funds. Aircraft are required to begin training at Laughlin AFB, TX. FY 2000 funds will be used (in accordance with Congressional language) to fund one FY 2001 aircraft taking total FY 2001 buy to 28. In FY 2000 Congress authorized and appropriated the purchase of 29 aircraft. However, contract limitations in the FY 2000 variation in Quantity Martix limited the FY 2000 purchase to 28.

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<b>Exhibit P-5A, Procurement History and Planning</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 14</b>	P-1 Line Item Nomenclature <b>Joint Primary Aircraft Training System (JPATS)</b>

<b><u>Weapon System</u></b>	Subline Item
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T-6											
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available?
Air Vehicle FY95	3	9.100	ASC/YT WPAFB OH	May-94	C/FPO	FPIF with EPA	Raytheon Aircraft Co Wichita, Kansas	Feb-96	Feb-00	Yes	
Air Vehicle FY96	6	5.600	ASC/YT WPAFB OH	May-94	C/FPO	FPIF with EPA	Raytheon Aircraft Co Wichita, Kansas	Sep-96	Mar-00	Yes	
Air Vehicle FY97	15	4.000	ASC/YT WPAFB OH	May-94	C/FPO	FPIF with EPA	Raytheon Aircraft Co Wichita, Kansas	Apr-97	Jun-00	Yes	
Air Vehicle FY98	22	3.200	ASC/YT WPAFB OH	May-94	C/FPO	FPIF with EPA	Raytheon Aircraft Co Wichita, Kansas	Feb-98	Nov-00	Yes	
Air Vehicle FY99	22	3.000	ASC/YT WPAFB OH	May-94	C/FPO	FPIF with EPA	Raytheon Aircraft Co Wichita, Kansas	Feb-99	Jun-01	Yes	
Air Vehicle FY00	29	2.586	ASC/YT WPAFB OH	May-94	C/FPO	FPIF with EPA	Raytheon Aircraft Co Wichita, Kansas	Feb-00	Feb-02	Yes	
Air Vehicle FY01	27	2.778	ASC/YT WPAFB OH	May-94	C/FPO	FPIF with EPA	Raytheon Aircraft Co Wichita, Kansas	Feb-01	Feb-03	Yes	

**Remarks**

Variations in Unit Cost from FY to FY.













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<b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b>						Date: February 2000		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 14</b>						P-1 Line Item Nomenclature <b>Joint Primary Aircraft Training System (JPATS)</b>		
<b>Weapon System T-6</b>								
<b>Equipment Nomenclature: Unit Training Device (UTD)</b>								
Fin Plan	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total
Quantity	5	16	9	7	12	13	16	78
Proc	32.000	22.200	35.400	24.600	18.400	18.900	22.300	173.800
RDT&E	28.019	28.269	20.473	1.883	1.974	2.012	2.053	84.683
O&S	0.000	0.000	1.389	5.413	5.626	6.617	7.115	26.160
<b><u>TRAINING SYSTEM DESCRIPTION</u></b>								
<p>Training will consist of a single primary phase of Specialized Undergraduate Pilot Training (SUPT). The objective of both the Air Force and the Navy is to jointly acquire an integrated training system using similar hardware with like capabilities. Components of the system include simulators, curricula, contractor logistics support and aircraft. This project represents the ground based training portion of the system and includes courseware and a Training Integration Management System as well as simulators. The quantities above reflect all GBTS components, not only UTDs.</p>								
P-1 Shopping List Item No. 14				<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.1, page 10 of 12				



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<b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 14</b>	P-1 Line Item Nomenclature <b>Joint Primary Aircraft Training System (JPATS)</b>
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**Weapon System T-6**

**Equipment Nomenclature: Unit Training Device (UTD)**

<b>IOC Date</b>	3QFY01									
TRAINING DEVICE BY TYPE	SITE	DELIVERY TIME	READY TRAINING DATE	AVG STUDENT THROUGH PUT	FY 1999		FY 2000		FY 2001	
					QTY	COST	QTY	COST	QTY	COST
OFT	Various				2	4.887	2	4.683	2	5.927
IFT	Various						3	4.524	4	7.139
UTD	Various						3	3.394	2	3.617
<u>TOTAL</u>					2	4.887	8	12.601	8	16.683

P-1 Shopping List Item No. 14	<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.2, page 11 of 12
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<b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 14</b>	P-1 Line Item Nomenclature <b>Joint Primary Aircraft Training System (JPATS)</b>

**Weapon System T-6**

**Equipment Nomenclature: Aircrew Trainers**

**Description:**

Aircrew trainers include Operational Flight Trainers (OFT), Instrument Flight Trainers (IFT), and Unit Training Devices (UTD).

FINANCIAL PLAN	FY 1999		FY 2000		FY 2001		To Complete		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
<b>Hardware Costs</b>										
OFT	2	4.887	2	4.683	2	5.927	16	45.200	22	60.697
IFT			3	4.524	4	7.139	18	24.900	27	36.563
UTD			3	3.394	2	3.617	12	23.000	19	30.011
EST			2	0.280			3	0.450	5	0.730
EPT			2	0.680			3	1.200	5	1.880
PPT										
CBTS			3	1.803						1.803
TIMS	3	22.920	1	2.909	1	13.000	1	12.200	6	51.029
<b>Total Hardware Costs</b>	5	27.807	16	18.273	9	29.683	53	106.950	84	182.713
<b>Support Costs</b>										
		4.193		3.927		5.717		10.350		24.187
<b>Total Support Costs</b>		4.193		3.927		5.717		10.350		24.187
<b>TOTAL COSTS</b>	5	32.000	16	22.200	9	35.400	53	117.300	84	206.900

P-1 Shopping List Item No. 14

**Simulator and Training Device Justification (\$ M)**

Exhibit P-43 p.3, page 12 of 12

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**FY 01 AMENDED BUDGET REQUEST  
BUDGET ACTIVITY 04 – OTHER AIRCRAFT  
FEBRUARY 2000**

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Exhibit P-40, Budget Item Justification								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 15</b>								P-1 Line Item Nomenclature <b>CV-22 (Osprey)</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A				4	6	9	9	9	13	50
Cost (\$ M)			21.996	21.793	335.766	362.246	414.045	412.889	403.808	583.726	2556.269
Advance Proc Cost (\$ M)				19.915	27.209	57.330	69.884	55.230	46.944	13.968	290.480
Weapon System Cost (\$ M)			21.996	41.708	362.975	419.576	483.929	468.119	450.752	597.694	2846.749
Initial Spares (\$ M)					16.960	68.244	54.714	61.772	79.564	109.666	390.920
Total Proc Cost (\$ M)			21.996	41.708	379.935	487.820	538.643	529.891	530.316	707.360	3237.669
Flyaway Unit Cost (\$ M)					77.341	56.962	47.910	45.561	44.398	43.746	
Wpn Sys Unit Cost (\$ M)					90.744	69.929	53.770	52.013	50.084	45.976	
<b>Description</b>											
<p>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&amp;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.</p>											
<b>FY 2001 Program Justification</b>											
<p>\$309.36M in Total Flyaway procures four CV-22 Aircraft          \$19.53M in Peculiar Ground Support Equipment (PGSE) procures 2 year lead airframe, engine and avionics O&amp;I level PGSE to support Kirtland and Hurlburt.          \$18.21M in Peculiar Training procures Air Force portion (85%) of first unit training OFT for Hurlburt and Interactive Media Instruction and Curriculum development.          \$0.41M in Publications and Technical Data procures Flight Manuals, General Series Manuals updates, O-Level tech data, Technical manual data cards, and O&amp;I level Integrated Electronic Technical Manual System (IETMS) to support first production lot of CV-22's          \$6.42M in Other ILS and Production Engineering Support provides funding for logistics and engineering support functions at various Air Force, Marine Corp and Navy locations.          \$1.75M in Common SE procures common SE necessary to support four CV-22's at Kirtland.          \$16.96M in Initial Spares procures breadth of spares necessary for site stand-up at Kirtland and depth of spares necessary to support the first year's projected flying hour program          \$27.21M in Advance Procurement procures long lead items for the six aircraft to be procured in FY02.</p>											
P-1 Shopping List Item No. 15								<b>Budget Item Justification Exhibit P-40, page 1 of 9</b>			

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Exhibit P-5, Weapon System Cost Analysis							Date: February 2000				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number							P-1 Line Item Nomenclature				
<b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 15</b>							<b>CV-22 (Osprey)</b>				
Manufacturer's Name/Plant City/State Location				Subline Item							
Bell-Boeing / Fort Worth / TX											
Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars									
		FY 1999			FY 2000			FY 2001			
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	
Air Frame CFE	A							4	66.107	264.429	
Engines/Engine Accessories	A							8	1.830	14.640	
GFE Electronics	A									3.214	
Engineering Change Orders (ECO)	A									10.119	
Nonrecurring Cost	A									16.960	
<b>TOTAL FLYAWAY COST</b>	A									309.362	
Airframe PGSE	A					2.353				14.155	
Engine PGSE	A									0.688	
Avionics PGSE	A									4.688	
Peculiar Training Equipment	A			21.996		16.502				18.212	
Publications/Technical Data	A					0.413				0.405	
Other ILS	A					0.939				3.118	
Production Engr Support	A					1.586				3.300	
Common SE	A									1.752	
<b>SUPPORT COST</b>	A			21.996		21.793				46.318	
Gross P-1 Cost	A			21.996		21.793				355.680	
Advance Procurement (Credit)	A									-19.915	
Net P-1 Cost	A			21.996		21.793				335.765	
Advance Procurement CY	A					19.915				27.209	
<b>Weapon System Cost</b>	A			21.996		41.708				362.974	
Initial Spares	A									16.960	
<b>TOTAL PROGRAM</b>				21.996		41.708				379.934	
<b>Comments</b>											

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<b>Exhibit P-5A, Procurement History and Planning</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 15</b>								P-1 Line Item Nomenclature <b>CV-22 (Osprey)</b>			
<u>Weapon System</u>						Subline Item					
CV-22											
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available?
FY2000 Advance Procurement			NAVAIR		SS	Navy	Bell-Boeing, Patuxent River MD	Feb-00			
FY2001 Airframe	4	66.107	NAVAIR		SS	Navy	Bell-Boeing, Patuxent River MD	Feb-01	Mar-03	Yes	
FY2001 Engines	8	1.830	NAVAIR		SS	Navy	Allison Engine Co., Indianapolis IN	Jan-01	Aug-02	Yes	
FY2001 Advance Proc			NAVAIR		SS	Navy	Bell-Boeing, Patuxent River MD	Feb-01			
<u>Remarks</u>											
P-1 Shopping List Item No. 15								Procurement History and Planning Exhibit P-5A, page 3 of 9			

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<b>Exhibit P-21, Production Schedule</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 15</b>	P-1 Line Item Nomenclature <b>CV-22 (Osprey)</b>

ITEM/MANUFACTURER/ PROCUREMENT YEAR	S E R V	PROC. QTY	ACCEP. PRIOR TO 1 OCT 1998	BALANCE DUE AS OF 1 OCT 1998	FISCAL YEAR 1999												FISCAL YEAR 2000												L A T E R
					CALENDAR YEAR 1999												CALENDAR YEAR 2000												
					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	

Bell-Boeing	USAF	0	0	0																							0
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<b>TOTAL</b>					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
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MANUFACTURER'S NAME	LOCATION	PRODUCTION RATES			REACHED D+	PROCUREMENT LEAD TIME																							
		MIN SUST	SHIFT HOURS DAYS	M A X		ADMIN LEAD TIME				MFG TIME	TOTAL AFTER 1 OCT																		
						PRIOR 1 OCT	AFTER 1 OCT																						
Bell-Boeing	Fort Worth, TX	4		24																									

REMARKS

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<b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 15</b>	P-1 Line Item Nomenclature <b>CV-22 (Osprey)</b>
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**Weapon System CV-22**

**Equipment Nomenclature: Unit Training Device (UTD)**

Fin Plan	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total
Quantity	1	1	1	2	0	2	1	8
Proc	21.996	16.502	18.212	28.817	0.807	29.713	13.414	129.461

**TRAINING SYSTEM DESCRIPTION**

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), and one Cabin Part Task Trainer (CPTT). Four additional OFTs will be procured for unit level training at SOF air bases. The CPTT will be procured in FY02. A WST is a full fidelity motion based simulator. An OFT is a full fidelity, no-motion based simulator. CPTT is a full scale mockup of the cabin to train flight engineers in loadmaster/crew chief duties (loading and unloading of aircraft, hoist operations, cabin rigging for airdrop and paratrooper operations). Procurement costs for the training systems will be split between USSOCOM (15%) and USAF (85%).

P-1 Shopping List Item No. 15	<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.1, page 7 of 9
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<b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 15</b>	P-1 Line Item Nomenclature <b>CV-22 (Osprey)</b>

**Weapon System CV-22**

**Equipment Nomenclature: Unit Training Device (UTD)**

IOC Date		Sep 2004								
TRAINING DEVICE BY TYPE	SITE	DELIVERY TIME	READY TRAINING DATE	AVG STUDENT THROUGH PUT	FY 1999		FY 2000		FY 2001	
					QTY	COST	QTY	COST	QTY	COST
Weapon System Trainer (WST)	Kirtland	Feb-02		41	1	21.996				
Operational Flight Trainer (OFT)	Kirtland	Feb-02		41			1	14.136		
OFT	Hurlburt	Nov-03		62					1	13.921
WST	Kirtland	Nov-04		41						
OFT	PACOM	Feb-05		23						
OFT	EUCOM	Nov-06		23						
OFT	West Coast	Nov-07		62						
Cabin Part Task Trainer (CPPT)	Kirtland	Nov-04		72						
<b>TOTAL</b>					1	21.996	1	14.136	1	13.921

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<b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b>							Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 15</b>							P-1 Line Item Nomenclature <b>CV-22 (Osprey)</b>			
<b>Weapon System CV-22</b>										
<b>Equipment Nomenclature: Aircrew Trainers</b>										
<b>Description:</b>										
* 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), and one Cabin Part Task Trainer (CPTT). Four additional OFTs will be procured for unit level training at SOF air bases.										
FINANCIAL PLAN	FY 1999		FY 2000		FY 2001		To Complete		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
<b>Hardware Costs</b>										
WST	1	21.996					1	12.428	2	34.424
OFT			1	14.136	1	13.921	3	36.986	5	65.043
CPTT							1	8.047	1	8.047
<b>Total Hardware Costs</b>	1	21.996	1	14.136	1	13.921	5	57.461	8	107.514
<b>Support Costs</b>										
				2.366		4.291		16.848		23.505
<b>Total Support Costs</b>				2.366		4.291		16.848		23.505
<b>TOTAL COSTS</b>	1	21.996	1	16.502	1	18.212	5	74.309	8	131.019
P-1 Shopping List Item No. 15							Simulator and Training Device Justification (\$ M)			
							Exhibit P-43 p.3, page 9 of 9			

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<b>Exhibit P-40, Budget Item Justification</b>						Date: February 2000					
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 16</b>						P-1 Line Item Nomenclature <b>CV-22 (Osprey) Advance Procurement</b>					
Program Element for Code B Items:		N/A			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Cost (\$ M)											
Advance Proc Cost (\$ M )				19.915	27.209	57.330	69.884	55.230	46.944	13.968	290.480
Weapon System Cost (\$ M)				19.915	27.209	57.330	69.884	55.230	46.944	13.968	290.480
Initial Spares (\$ M)											
Total Proc Cost (\$ M)				19.915	27.209	57.330	69.884	55.230	46.944	13.968	290.480
Flyaway Unit Cost (\$ M)											
Wpn Sys Unit Cost (\$ M)											
<b>Description</b>											
<p>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&amp;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.</p>											
<b>FY 2001 Program Justification</b>											
<p>\$27.21M in Advance Procurement procures long lead items for the six aircraft to be procured in FY02.</p>											
P-1 Shopping List Item No. 16						Budget Item Justification Exhibit P-40, page 1 of 3					

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<b>Exhibit P-10 p.1, Advance Procurement Requirements Analysis (Page 1 - Funding)</b>										Date: February 2000		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 16</b>										P-1 Line Item Nomenclature <b>CV-22 (Osprey) Advance Procurement</b>		
Weapon System CV22AP					First System Award Date					First System Completion Date		
(\$ in Millions)												
<u>Description</u>	<u>PLT</u>	<u>When Rqd</u>	<u>Prior Years</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Comp</u>	<u>Total</u>
End Item Qty	38	Mar-03			4	6	9	9	9	9	4	50
CFE	38	Mar-03	N/A		19.242	26.182	55.766	68.293	53.606	45.285	13.217	281.591
GFE												
EOQ												
Design												
Term Liability												
GFE												
AN/AVR-2A(V)	13	Jan-02	N/A		0.609	0.928	1.414	1.437	1.467	1.498	0.679	8.032
Notch Filter	8	Sep-01	N/A		0.001	0.002	0.003	0.004	0.004	0.004	0.001	0.019
ARN-147 (V)	19	Apr-02	N/A		0.044	0.067	0.102	0.104	0.106	0.108	0.049	0.580
Main Mount Pneumatic Tire	18	Oct-01	N/A		0.002	0.003	0.005	0.005	0.005	0.006	0.003	0.029
External Power Monitor	12	Sep-01			0.003	0.005	0.007	0.007	0.007	0.008	0.003	0.040
RCU Battery	8	Oct-01			0.014	0.022	0.033	0.034	0.035	0.035	0.016	0.189
TOTAL AP			0.000		19.915	27.209	57.330	69.884	55.230	46.944	13.968	290.480
<b>Description:</b> 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. FY02 starts advance procurement for a planned multi-year production contract for FY03-FY07.												
P-1 Shopping List Item No. 16							<b>Advance Procurement Requirements Analysis (Page 1 - Funding) Exhibit P-10 p.1, page 2 of 3</b>					



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<b>Exhibit P-10 p.2, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 16</b>	P-1 Line Item Nomenclature <b>CV-22 (Osprey) Advance Procurement</b>

Weapon System  
CV22AP

(TOA, \$ in Millions)

<u>Description</u>	<u>PLT</u>	<u>QPA</u>	<u>Unit Cost</u>	<u>FY 2001 QTY</u>	<u>FY 2001 Contract Forecast Date</u>	<u>FY 2001 Total Cost Request</u>
End Item	38	1		4	Feb-01	27.209
CFE	38	1		4	Feb-01	26.182
GFE						
EOQ						
Design						
Term Liability						
GFE						
AN/AVR-2A(V)	13	1				0.928
Notch Filter	8	4				0.002
ARN-147 (V)	19	1				0.067
Main Mount      Pneumatic Tire	18	4				0.003
External Power Monitor	12	1				0.005
RCU Battery	8	1				0.022
TOTAL AP						27.209

**Description:**

P-1 Shopping List Item No. 16

**Advance Procurement Requirements Analysis  
(Page 2 - Budget Justification)  
Exhibit P-10 p.2, page 3 of 3**

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<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 17</b>								P-1 Line Item Nomenclature <b>C-37A (Small VCX)</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A	3	4								7
Total Proc Cost (\$ M)		104.900	159.799								264.699
<b>Description</b>											
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. These aircraft offer improved reliability, reduced O&S costs, compliance with Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO) noise and pollution standards.											
<b>FY 2001 Program Justification</b>											
N/A											

P-1 Shopping List Item No. 17

**Budget Item Justification**  
Exhibit P-40, page 1 of 5

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Exhibit P-5, Weapon System Cost Analysis						Date: February 2000					
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number						P-1 Line Item Nomenclature					
Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 17						C-37A (Small VCX)					
Manufacturer's Name/Plant City/State Location						Subline Item					
Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars									
		FY 1999			FY 2000			FY 2001			
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	
Avionics	A	4		159.799							
Armament	A										
Software	A										
Other Government Furnished Equipment (GFE)	A										
Engineering Change Orders (ECO)	A										
Nonrecurring Costs	A										
Other Costs	A										
<b>FLYAWAY COST SUBTOTAL</b>	A			159.799							
Airframe Peculiar Ground Support Equipment (PGSE)	A										
Engine PGSE	A										
Peculiar Training Equipment	A										
Publications/Technical Data	A										
ECOs	A										
Other	A										
<b>SUPPORT COST SUBTOTAL</b>	A										
<b>TOTAL PROGRAM</b>				159.799							
<b>Comments</b>											
FY 98 funds one C-37A for the U.S. Army as directed by the FY 98 Defense Appropriation Bill. These funds were combined with funds available from FY 97 savings and proceeds from the trade-in of an Army C-20 aircraft.											
P-1 Shopping List Item No. 17						Weapon System Cost Analysis Exhibit P-5, page 2 of 5					







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<b>Exhibit P-5, Weapon System Cost Analysis</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 18</b>	P-1 Line Item Nomenclature <b>C-32A (Large VCX)</b>
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Manufacturer's Name/Plant City/State Location	Subline Item
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Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars								
		FY 1999			FY 2000			FY 2001		
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Avionics	A	2		155.000						
Armament	A									
Software	A									
Other Government Furnished Equipment (GFE)	A									
Engineering Change Orders (ECO)	A									
Nonrecurring Costs	A									
Other Costs	A			3.877						
<b>FLYAWAY COST SUBTOTAL</b>	A			158.877						
Airframe Peculiar Ground Support Equipment (PGSE)	A									
Engine PGSE	A									
Peculiar Training Equipment	A									
Publications/Technical Data	A									
ECOs	A									
Other	A									
<b>SUPPORT COST SUBTOTAL</b>	A									
<b>TOTAL PROGRAM</b>				158.877						

**Comments**

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<b>Exhibit P-21, Production Schedule</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 19</b>	P-1 Line Item Nomenclature <b>C-32B FEST/DEST AIRCRAFT</b>
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ITEM/MANUFACTURER/ PROCUREMENT YEAR	S E R V	PROC. QTY	ACCEP. PRIOR TO 1 OCT 1998	BALANCE DUE AS OF 1 OCT 1998	FISCAL YEAR 1999												FISCAL YEAR 2000												L A T E R
					CALENDAR YEAR 1999												CALENDAR YEAR 2000												
					1998																								
	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S					
	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E					
	T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P					

TOTAL																										
-------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
	C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
	T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

MANUFACTURER'S NAME	LOCATION	PRODUCTION RATES			REACHED D+	PROCUREMENT LEAD TIME					
		MIN SUST	SHIFT HOURS DAYS	M A X		ADMIN LEAD TIME		MFG TIME	TOTAL AFTER 1 OCT		
		1		1							

REMARKS  
At this time, the specific contractor selection has not been made for this acquisition.

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P-1 Shopping List Item No. 19	Production Schedule Exhibit P-21, page 3 of 3
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<b>Exhibit P-40, Budget Item Justification</b>									Date: February 2000		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 22</b>									P-1 Line Item Nomenclature <b>Target Drones</b>		
Program Element for Code B Items:		N/A			Other Related Program Elements:				64258F		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Cost (\$ M)				31.332	32.915	36.688	37.217	46.874	39.181	TBD	TBD
Advance Proc Cost (\$ M)											
Weapon System Cost (\$ M)				31.332	32.915	36.688	37.217	46.874	39.181	TBD	TBD
Initial Spares (\$ M)			0.000	0.885	0.610	0.729	0.973	0.976	0.978		5.151
Total Proc Cost (\$ M)			0.000	32.217	33.525	37.417	38.190	47.850	40.159	TBD	TBD
Flyaway Unit Cost (\$ M)											
Wpn Sys Unit Cost (\$ M)											
<p><b>Description</b>                      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.</p> <p><b>FY 2001 Program Justification</b>                      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 operational flight program fighter aircraft upgrades. Procurement funds for the BQM-34 target drones (32 in FY00) are required to meet test and training requirements. Funds for QF-4 full scale aerial targets (12 in FY00) are required to meet existing development and operational test requirements.</p> <p>Starting in FY00 funding for Target Drones transitioned from Missile Procurement Air Force (MPAF) to Aircraft Procurement Air Force (APAF). This document contains funding starting in FY00 and beyond.</p>											
P-1 Shopping List Item No. 22									Budget Item Justification Exhibit P-40, page 1 of 9		

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Exhibit P-5, Weapon System Cost Analysis						Date: February 2000				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number						P-1 Line Item Nomenclature				
Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 22						Target Drones				
Manufacturer's Name/Plant City/State Location						Subline Item				
QF-4 (BAE Systems, Mojave, CA) BQM-34 (Northrop Grumman, San Diego, CA)										
Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars								
		FY 1999			FY 2000			FY 2001		
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
QF-4 FULL SCALE AERIAL TARGET FLYAWAY COST	A									
QF-4 Hardware Recurring	A									
Aircraft Drone Mod & Integ	A				12	0.630	7.558	13	0.659	8.569
Scoring System (VDOPS)	A									
F-4 In Plant Repairs	A						0.321			0.355
Environ Stress Test of Destruct Units	A									
Engineering Change Orders	A						0.000			1.052
Warranty	A						0.190			0.192
Aircraft Withdrawal/AMARC	A									
Restricted Manned Perf to 3G	A				12	0.296	3.549	13	0.296	3.845
Unrestricted Manned Perf to 6G	A									
MILSTRIP RSD	A						0.150			0.150
MILSTRIP EOQ	A						0.200			0.200
FLYAWAY COST SUBTOTAL	A						11.968			14.363
QF-4 Support Cost	A									
Data Tech Manuals	A						0.056			0.058
On Call Engineering Support	A						0.026			0.027
Prime Contractor Technical Support	A						0.115			0.117
Government Support	A						2.346			3.044
SUPPORT COST SUBTOTAL	A						2.543			3.246
INITIAL SPARES	A									
BQM-34 SUBSCALE FLYAWAY COST	A									
Airframes	A				32	0.425	13.600	16	0.728	11.655
ECO	A						0.000			0.521

P-1 Shopping List Item No. 22

Weapon System Cost Analysis

Exhibit P-5, page 2 of 9

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Exhibit P-5, Weapon System Cost Analysis							Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 22</b>							P-1 Line Item Nomenclature <b>Target Drones</b>			
Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars								
		FY 1999			FY 2000			FY 2001		
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
GFE	A									
Engines	A				32	0.025	0.800	28	0.014	0.400
IFF (L-Band) Transponders	A				32	0.003	0.102	28	0.002	0.052
Locator Beacons	A				32	0.003	0.102	28	0.002	0.052
<b>BQM-34 FLYAWAY COST SUB TOTAL</b>	A						14.604			12.680
<b>BQM-34 Support Cost</b>	A									
Data Tech Manuals	A						0.048			0.000
NTSSAT FAAT Testing	A									
Government Testing	A									
Government Support	A						1.255			1.215
On Site Support Redstone Arsenal	A						0.165			0.168
Technical Support	A						0.502			0.974
Other	A						0.247			0.269
Interim Maint. Support for VDOPS	A						0.000			0.000
<b>BQM-34 SUPPORT COST SUBTOTAL</b>	A						2.217			2.626
<b>TOTAL PROGRAM</b>							31.332			32.915
<b>Comments</b>										
Starting in FY00 funding for Target Drones transitioned from Missile Procurement Air Force (MPAF) to Aircraft Procurement Air Force (APAF). This document contains funding starting in FY00 and beyond.										
P-1 Shopping List Item No. 22							Weapon System Cost Analysis Exhibit P-5, page 3 of 9			

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<b>Exhibit P-5A, Procurement History and Planning</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 22</b>	P-1 Line Item Nomenclature <b>Target Drones</b>

<u>Weapon System</u>				Subline Item							
TD											
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available?
FY00 (QF-4)	12	0.997	AAC/WRA		C	FFP	BAE SYSTEMS, MOJAVE, CA	Dec-99	Jun-00	Yes	
FY01 (QF-4)	13	1.105	AAC/WRA		C	FFP	BAE SYSTEMS, MOJAVE, CA	Dec-00	Jun-01	Yes	
FY00 (BQM-34)	32	0.456	AAC/WRA		C	FFP	NORTHROP GRUMMAN (BQM-34), SAN DIEGO CA	Nov-99	Apr-01	Yes	
FY01 (BQM-34)	16	0.792	AAC/WRA		C	FFP	NORTHROP GRUMMAN, SAN DIEGO CA	Oct-00	Jan-02	Yes	

**Remarks**  
Starting in FY00 funding for Target Drones transitioned from Missile Procurement Air Force (MPAF) to Aircraft Procurement Air Force (APAF). This document contains funding starting in FY00 and beyond.

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Exhibit P-40, Budget Item Justification									Date: February 2000		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number									P-1 Line Item Nomenclature		
<b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23</b>									<b>E-8C (Joint Stars)</b>		
Program Element for Code B Items:			N/A			Other Related Program Elements:			N/A		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A	11	2	1	1						15
Cost (\$ M)		2368.200	473.278	226.255	260.610	12.183					3340.526
Interim Ctr Support (\$ M)		0.000		25.609							25.609
Advance Proc Cost (\$ M)		805.200	35.609	35.732							876.541
Weapon System Cost (\$ M)		3173.400	508.887	287.596	260.610	12.183					4242.676
Initial Spares (\$ M)		182.700	97.818	72.180	22.571	9.546	6.332	2.773	1.535		395.455
Total Proc Cost (\$ M)		3356.100	606.705	359.776	283.181	21.729	6.332	2.773	1.535		4638.131
Flyaway Unit Cost (\$ M)		288.500	213.000	237.900	259.300						
Wpn Sys Unit Cost (\$ M)		305.100	254.444	290.980	260.878						

**Description**  
 There is an Air Force and Army need to provide, from airborne platforms, near-real time surveillance and targeting information on moving and stationary ground targets (growth to maritime operations), slow moving rotary and fixed wing aircraft, and rotating antennas. This information enables operational and tactical commanders to make and execute battle decisions. To meet these needs, the Air Force and Army initiated the Joint Surveillance Target Attack Radar System (Joint STARS) program with the Air Force as lead service. Joint STARS provides target information for pairing direct attack aircraft and standoff weapons against selected targets. The system is capable of being cued by other reconnaissance, surveillance, and target acquisition systems; is able to respond rapidly to worldwide contingencies. The operational utility of the system was effectively demonstrated by the two developmental aircraft in support of combat operations during Desert Storm. Joint STARS aircraft were deployed in support of Operation Joint Endeavor in Dec 95 and again from Nov to Dec 96. Joint STARS also successfully supported Operation Allied Force from Feb to June 99. In Sep 96 the Defense Acquisition Board (DAB) Milestone III Review approved full rate production of a 19 E-8C program. The 93rd Air Control Wing, Robins AFB, GA, declared Joint STARS Initial Operational Capability (IOC) in Dec 97 and the system is now participating in operational and training exercises. After the 1996 Quadrennial Defense Review recommended a revision of the Joint STARS production profile the Air Force reduced Joint STARS production from 19 to 13 E-8Cs. Funding for the 14th and 15th E-8C provided during the FY00 and FY01 budget cycles.

**FY 2001 Program Justification**  
 Funds procurement of 15th aircraft in FY01.

P-1 Shopping List Item No. 23

**Budget Item Justification**  
**Exhibit P-40, page 1 of 6**

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Exhibit P-5, Weapon System Cost Analysis							Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number							P-1 Line Item Nomenclature			
<b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23</b>							<b>E-8C (Joint Stars)</b>			
Manufacturer's Name/Plant City/State Location					Subline Item					
Northrup Grumman Corporation Melbourne Systems Division Melbourne, FL										
Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars								
		FY 1999			FY 2000			FY 2001		
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Airframe	A	2	109.850	219.700	1	130.500	130.500	1	150.200	150.200
Avionics	A	2	60.750	121.500	1	71.500	71.500	1	73.100	73.100
GFE	A	2	2.600	5.200	1	5.200	5.200	1	5.200	5.200
Engineering Change Orders (ECO)	A			2.200			0.800			0.000
Nonrecurring Costs	A	2	9.550	19.100	1	9.900	9.900	1	10.100	10.100
Other Costs	A	2	29.150	58.300	1	20.000	20.000	1	20.700	20.700
<b>FLYAWAY COST SUBTOTAL</b>	A			426.000			237.900			259.300
Avionics PGSE	A			5.300			2.440			3.080
Peculiar Training Equipment	A			6.100			3.660			4.620
Publications/Technical Data	A			5.900			2.400			2.700
ICS	A			23.412			0.000			
Pgm Mgmt Admin (PMA)	A			16.400			11.400			15.200
Other	A			8.189			7.448			11.710
<b>SUPPORT COST SUBTOTAL</b>	A			65.301			27.348			37.310
<b>GROSS P-1 COSTS</b>	A			491.301			265.248			296.610
Less: Prior Yr Adv Procurement	A			-18.023			-38.993			-36.000
<b>Net P-1 Total</b>	A			473.278			226.255			260.610
Plus: Current Yr Adv Procurement	A			35.609			35.732			
Plus: INITIAL SPARES	A			98.518			73.685			28.824
Plus: MODs BP 11	A			43.522			28.346			33.389
Plus: ICS (FY00)	A						25.609			
<b>TOTAL PROGRAM</b>				650.927			389.627			322.823
<b>Comments</b>										



**UNCLASSIFIED**

<b>Exhibit P-21, Production Schedule</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23</b>	P-1 Line Item Nomenclature <b>E-8C (Joint Stars)</b>

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV	PROC. QTY	ACCEP. PRIOR TO 1 OCT 1998	BALANCE DUE AS OF 1 OCT 1998	FISCAL YEAR 1999												FISCAL YEAR 2000												L A T E R
					CALENDAR YEAR 1999												CALENDAR YEAR 2000												
					O T	N V	D C	J N	F B	M R	A R	M Y	J N	J L	A G	S P	O T	N V	D C	J N	F B	M R	A R	M Y	J N	J L	A G	S P	
Northrop Grumman Corporation E-8C FY92	USAF	2	2	0																						0			
Northrop Grumman Corporation E-8C FY94	USAF	2	2	0																						0			
Northrop Grumman Corporation E-8C FY95	USAF	2	0	2									1													1			
Northrop Grumman Corporation E-8C FY96	USAF	2	0	2											1											1			
Northrop Grumman Corporation E-8C FY97	USAF	2	0	2														1						1		0			
Northrop Grumman Corporation E-8C FY98	USAF	1	0	1																						1			
Northrop Grumman Corporation E-8C FY99	USAF	2	0	2																						2			
Northrop Grumman Corporation E-8C FY00	USAF	1	0	1																						1			
Northrop Grumman Corporation E-8C FY01	USAF	1	0	1																						1			
<b>TOTAL</b>		<b>15</b>	<b>4</b>	<b>11</b>									<b>1</b>								<b>1</b>			<b>1</b>		<b>7</b>			

MANUFACTURER'S NAME	LOCATION	PRODUCTION RATES			REACHED D+	PROCUREMENT LEAD TIME				
		MIN SUST	SHIFT HOURS DAYS	M A X		ADMIN LEAD TIME		MFG TIME	TOTAL AFTER 1 OCT	
Northrop Grumman Corporation	Melbourne FL 32902	1	1-8-5	5	45	INITIAL	PRIOR 1 OCT			AFTER 1 OCT
						REORDER	2	5		

**REMARKS**

- Aircraft P6&8 deliveries (Jan&May 01) reflect rebaselining on contract
- Aircraft P12&13 delivery dates Dec01 & May02 are definitized
- Aircraft P14 & 15 delivery dates of Feb03 and Apr 03 respectively reflect PM Assessment
- No Long Lead time included







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<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 24</b>								P-1 Line Item Nomenclature <b>E-8C (Joint Stars) Advance Procurement</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Cost (\$ M)											
Interim Ctr Support (\$ M)											
Advance Proc Cost (\$ M)			35.609	35.732							71.341
Weapon System Cost (\$ M)			35.609	35.732							71.341
Initial Spares (\$ M)											
Total Proc Cost (\$ M)			35.609	35.732							71.341
Flyaway Unit Cost (\$ M)											
Wpn Sys Unit Cost (\$ M)											
<b>Description</b>											
<p>There is an Air Force and Army need to provide, from airborne platforms, near-real time surveillance and targeting information on moving and stationary ground targets (growth to maritime operations), slow moving rotary and fixed wing aircraft, and rotating antennas. This information enables operational and tactical commanders to make and execute battle decisions. To meet these needs, the Air Force and Army initiated the Joint Surveillance Target Attack Radar System (Joint STARS) program with the Air Force as lead service. Joint STARS provides target information for pairing direct attack aircraft and standoff weapons against selected targets. The system is capable of being cued by other reconnaissance, surveillance, and target acquisition systems; is able to respond rapidly to worldwide contingencies. The operational utility of the system was effectively demonstrated by the two developmental aircraft in support of combat operations during Desert Storm. Joint STARS aircraft were deployed in support of Operation Joint Endeavor in Dec 95 and again from Nov to Dec 96. Joint STARS also successfully supported Operation Allied Force from Feb to June 99. In Sep 96 the Defense Acquisition Board (DAB) Milestone III Review approved full rate production of a 19 E-8C program. The 93rd Air Control Wing, Robins AFB, GA, declared Joint STARS Initial Operational Capability (IOC) in Dec 97 and the system is now participating in operational and training exercises. After the 1996 Quadrennial Defense Review recommended a revision of the Joint STARS production profile the Air Force reduced Joint STARS production from 19 to 13 E-8Cs. Funding for the 14th and 15th E-8C provided during the FY00 and FY01 budget cycles.</p>											
<b>FY 2001 Program Justification</b>											
P-1 Shopping List Item No. 24								Budget Item Justification Exhibit P-40, page 1 of 2			

**UNCLASSIFIED**

<b>Exhibit P-10 p.1, Advance Procurement Requirements Analysis (Page 1 - Funding)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 24</b>	P-1 Line Item Nomenclature <b>E-8C (Joint Stars) Advance Procurement</b>
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Weapon System E-8CAP	First System Award Date Apr-92	First System Completion Date Mar-96
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(\$ in Millions)

Description	PLT	When Rqd	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
End Item Qty			11	2	1	1						15
CFE			805.200	35.609	35.732							876.541
GFE												
EOQ												
Design												
Term Liability												
<b>TOTAL AP</b>			805.200	35.609	35.732							876.541

**Description:**

The Joint STARS Production Process has required approximately a 45 month cycle (for single aircraft buy) and a 52 month cycle (two aircraft buy). The funding associated with each Lot is active for 3 years thus Advance Buy Funding is required to execute the production cycle. The two major long lead items for the Joint STARS program are aircraft refurbishment/modification and electronics. The other item included in the Advance Buy funding is for configuration update activities.

P-1 Shopping List Item No. 24

**Advance Procurement Requirements Analysis  
(Page 1 - Funding)**

**Exhibit P-10 p.1, page 2 of 2**

**UNCLASSIFIED**

Exhibit P-40, Budget Item Justification								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 25</b>								P-1 Line Item Nomenclature <b>E-8C (Joint Stars) ICS</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Cost (\$ M)											
Interim Ctr Support (\$ M)				25.609							25.609
Advance Proc Cost (\$ M)											
Weapon System Cost (\$ M)				25.609							25.609
Initial Spares (\$ M)											
Total Proc Cost (\$ M)				25.609							25.609
Flyaway Unit Cost (\$ M)											
Wpn Sys Unit Cost (\$ M)											
<p><b>Description</b></p> <p>There is an Air Force and Army need to provide, from airborne platforms, near-real time surveillance and targeting information on moving and stationary ground targets (growth to maritime operations), slow moving rotary and fixed wing aircraft, and rotating antennas. This information enables operational and tactical commanders to make and execute battle decisions. To meet these needs, the Air Force and Army initiated the Joint Surveillance Target Attack Radar System (Joint STARS) program with the Air Force as lead service. Joint STARS provides target information for pairing direct attack aircraft and standoff weapons against selected targets. The system is capable of being cued by other reconnaissance, surveillance, and target acquisition systems; is able to respond rapidly to worldwide contingencies. The operational utility of the system was effectively demonstrated by the two developmental aircraft in support of combat operations during Desert Storm. Joint STARS aircraft were deployed in support of Operation Joint Endeavor in Dec 95 and again from Nov to Dec 96. Joint STARS also successfully supported Operation Allied Force from Feb to June 99. In Sep 96 the Defense Acquisition Board (DAB) Milestone III Review approved full rate production of a 19 E-8C program. The 93rd Air Control Wing, Robins AFB, GA, declared Joint STARS Initial Operational Capability (IOC) in Dec 97 and the system is now participating in operational and training exercises. After the 1996 Quadrennial Defense Review recommended a revision of the Joint STARS production profile the Air Force reduced Joint STARS production from 19 to 13 E-8Cs. Funding for the 14th and 15th E-8C provided during the FY00 and FY01 budget cycles.</p> <p><b>FY 2001 Program Justification</b></p>											
P-1 Shopping List Item No. 25								Budget Item Justification Exhibit P-40, page 1 of 1			

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<b>Exhibit P-40, Budget Item Justification</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 26</b>	P-1 Line Item Nomenclature <b>High Altitude Endurance - UAV Advance Procurement</b>

Program Element for Code B Items:		N/A			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A					2	2	2	2		8
Cost (\$ M)						79.157	75.315	75.174	63.680		293.326
Advance Proc Cost (\$ M)					22.388	12.300	20.000	8.800	8.700		72.188
Weapon System Cost (\$ M)					22.388	91.457	95.315	83.974	72.380		365.514
Initial Spares (\$ M)						11.700	12.800	12.200	11.100		47.800
Total Proc Cost (\$ M)					22.388	103.157	108.115	96.174	83.480		413.314
Flyaway Unit Cost (\$ M)						32.400	31.600	30.500	29.000		
Wpn Sys Unit Cost (\$ M)						41.600	36.800	41.500	30.500		

**Description**

The High Altitude Endurance (HAE) Unmanned Aerial Vehicle (UAV) system consists of the all-weather Global Hawk air vehicle (A/V) and the Common Ground Segment (CGS). The CGS consists of the Mission Control Element (MCE) and the Launch and Recovery Element (LRE). Global Hawk 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, communication and interfaces to theater systems which will support the Joint Forces Commander and the tactical warfighters at various levels of command. This aircraft will be a 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. It is designed to provide up to 40,000 sq. nmi. of wide area search radar imagery and either Electro-Optical (EO) or Infrared (IR) imagery with 1m resolution per mission, or up to 1900 EO, IR, or radar spot images per mission with a 0.3m resolution. The design targeting accuracy is less than 20m CEP. The Global Hawk UAV is designed to standoff, operate in low-to-moderate air defense environment and collect imagery while looking deep into high threat areas.

**FY 2001 Program Justification**

The Global Hawk and CGS programs are currently an Advanced Concept Technology Demonstration (ACTD), which is scheduled for completion in June 00. A DAE directive issued on 20 Aug 99, directed the Air Force to initiate a Milestone II Acquisition Decision in late FY00, buy 2 EMD air vehicles in FY01, and begin production of 2 air vehicles per year in FY02. The Global Hawk EMD program will consist of a one-year effort to evolve the Global Hawk system into a Block 5 configuration. The DAE directed that the first Global Hawks include those items necessary to make the system operational for deployment, while making the systems as flexible as possible to allow for spiral development of sensors and other capabilities. The Global Hawk production program will consist of 2 A/Vs per year from FY02 - FY05 (total of 8 A/Vs) and a total of 2 CGS over the same time period. Procurement of long lead items for the first 2 A/Vs and one MCE will start in FY01, with delivery in FY03. Production air vehicles procured from FY02 - FY05 will be Block 5 configuration.

P-1 Shopping List Item No. 26	<b>Budget Item Justification Exhibit P-40, page 1 of 5</b>
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<b>Exhibit P-5A, Procurement History and Planning</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 26</b>	P-1 Line Item Nomenclature <b>High Altitude Endurance - UAV Advance Procurement</b>
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<u><b>Weapon System</b></u>	Subline Item
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HAE_AP	
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WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available?
FY 2001											
Long lead for 2 Global Hawks and 1 MCE (FY02)			ASC/RAK		SS	TBD	Ryan Aeronautical Center, San Diego, CA	Mar-01		No	
Remarks											

**Remarks**

No RFP has been issued, nor contract awarded, for procurement of HAE UAV systems.  
 Long lead for production not scheduled to begin until FY01, for delivery ion FY03. Total lead time for air vehicles and ground stations is 24 months from receipt of order; six to eight months for long lead of air vehicles or ground station components and 16-18 months for fabrication and assembly (estimate).

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<b>Exhibit P-10 p.1, Advance Procurement Requirements Analysis (Page 1 - Funding)</b>										Date: February 2000		
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 26</b>										P-1 Line Item Nomenclature <b>High Altitude Endurance - UAV Advance Procurement</b>		
Weapon System HAE_AP					First System Award Date Mar-01					First System Completion Date Mar-00		
(\$ in Millions)												
<u>Description</u>	<u>PLT</u>	<u>When Rqd</u>	<u>Prior Years</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>To Comp</u>	<u>Total</u>
End Item Qty						0	2	2	2	2	TBD	8
CFE						22.388	12.300	20.000	8.800	8.700	TBD	72.188
GFE						0.000	0.000	0.000	0.000	0.000	TBD	0.000
EOQ						N/A	N/A	N/A	N/A	N/A	N/A	0.000
Design						N/A	N/A	N/A	N/A	N/A	N/A	0.000
Term Liability						N/A	N/A	N/A	N/A	N/A	N/A	0.000
TOTAL AP						22.388	12.300	20.000	8.800	8.700	0.000	72.188
<b>Description:</b> CFE figures include long lead funding costs for Global Hawk and CGS.												
P-1 Shopping List Item No. 26							<b>Advance Procurement Requirements Analysis (Page 1 - Funding) Exhibit P-10 p.1, page 4 of 5</b>					



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<b>Exhibit P-10 p.2, Advance Procurement Requirements Analysis (Page 2 - Budget Justification)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 26</b>	P-1 Line Item Nomenclature <b>High Altitude Endurance - UAV Advance Procurement</b>
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Weapon System  
HAE\_AP

(TOA, \$ in Millions)

<u>Description</u>	<u>PLT</u>	<u>QPA</u>	<u>Unit Cost</u>	<u>FY 2001 QTY</u>	<u>FY 2001 Contract Forecast Date</u>	<u>FY 2001 Total Cost Request</u>
End Item						
CFE					Mar-01	22.388
GFE						
EOQ						
Design						
Term Liability						
TOTAL AP						22.388

**Description:**

Long lead for two air vehicles and one MCE.

P-1 Shopping List Item No. 26

**Advance Procurement Requirements Analysis  
(Page 2 - Budget Justification)  
Exhibit P-10 p.2, page 5 of 5**

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<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 27</b>								P-1 Line Item Nomenclature <b>PREDATOR UAV</b>			
Program Element for Code B Items:			35205F			Other Related Program Elements:			27245F		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A	49	7	8	7	6	8	8	8	TBD	TBD
Total Proc Cost (\$ M)			129.750	57.142	22.078	19.473	26.433	27.225	27.828		309.929
<b>Description</b>											
<p>The Predator Medium Altitude Endurance (MAE) Unmanned Aerial Vehicle provides 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 (A/V) 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 Predator Primary Satellite Link (PPSL) communications suite and associated ground support equipment. Predator systems are operational and have deployed in support of operations in Bosnia, Southwest Asia, and Kosovo. The Operational Requirements Document (ORD) identifies requirements for system growth. The Predator Program was restructured when it transitioned from an Advanced Concept Technology Demonstration (ACTD) to an acquisition program to focus funding to address reliability and maintainability issues. Predator is procured through the BIG SAFARI Program Office with General Atomics ASI as the depot (sole-source supplier). The contracting strategy is to integrate Total System Performance Responsibility (TSPR) using General Atomics -ASI (GA) as the prime contractor to coordinate and implement hardware and engineering requirements. FY99 Kosovo Supplemental provided \$17M for replacement air vehicles to cover operational losses and reimbursement for four laser targeting designators (LTD), fielded in response to a Combat Mission Need Statement during Kosovo operations. Congress added production funds in FY00 for additional air vehicles and to start procurement of a permanent laser designator for use with precision guided munitions, tactical common data link (TCDL) and dual channel communications to improve relief-on-station.</p> <p>Note: FY99 procurement quantity should be 11 vehicles due to addition of four replacement units, funded by the Kosovo Supplemental. Procurement schedule will be properly reflected in the next budget cycle. Exhibit P-5A and P-21 reflect actual procurement, including additional FY99 quantity.</p>											
<b>FY 2001 Program Justification</b>											
<p>Procurement funding includes system production, production support, engineering services, and acceptance testing and evaluation. FY99 supported one system, attrition air vehicles, ice protection kits, and retrofit of fielded systems. FY00 procures one system, attrition air vehicles, and ice protection kits. FY01 funding supports the procurement of attrition air vehicles and ice protection kits. FY01-05 funds procure attrition air vehicles.</p>											
P-1 Shopping List Item No. 27								<b>Budget Item Justification</b> Exhibit P-40, page 1 of 8			



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<b>Exhibit P-5A, Procurement History and Planning</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 27</b>								P-1 Line Item Nomenclature <b>PREDATOR UAV</b>			
<u>Weapon System</u>						Subline Item					
PRED											
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available?
FY 1998											
GCS/General Atomics ASI	2		ASC/RAKB		SS	FPI	General Atomics	Mar-98	Mar-00	Yes	
A/V/General Atomics ASI	16		ASC/RAKB		SS	FPI	General Atomics	Mar-98	Sep-99	Yes	
SAR/Northrup Grumman	27		CECOM		SS	FFP	Northrop Grumman	Jan-98	Sep-99	Yes	
PPSL/L-3 Comm	4		WR-LRC		SS	FFP	L-3 Comm	Feb-99	Oct-99	Yes	
FY 1999											
GCS/General Atomics ASI	1		ASC/RAKB		SS	FPI	General Atomics	Aug-99	Jan-01	Yes	
A/V/General Atomics ASI	11		ASC/RAKB		SS	FPI	General Atomics	Aug-99	Nov-00	Yes	
SAR/Northrup Grumman	24		CECOM		SS	FFP	Northrop Grumman	May-99	Feb-01	Yes	
PPSL/L-3 Comm	2		WR-LRC		SS	FFP	L-3 Comm	Feb-99	Dec-99	Yes	
LTD/Raytheon	4		NAVY		MIPR	Navy	Raytheon	Apr-99	Apr-99	Yes	
FY 2000											
GCS/General Atomics ASI	1		ASC/RAKB		SS	FPI	General Atomics	Dec-99	Nov-01	Yes	
A/V/General Atomics ASI	8		ASC/RAKB		SS	FPI	General Atomics	Dec-99	Oct-01	Yes	
FY 2001											
A/V/General Atomics ASI	7		ASC/RAKB		SS	FFP	General Atomics	Dec-00	Jun-02	Yes	
FY 2002											
A/V/General Atomics ASI	6		ASC/RAKB		SS	FFP	General Atomics	Dec-01	Jan-03	Yes	
FY 2003											
P-1 Shopping List Item No. 27								Procurement History and Planning			
								Exhibit P-5A, page 3 of 8			

**UNCLASSIFIED**

<b>Exhibit P-5A, Procurement History and Planning</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 27</b>	P-1 Line Item Nomenclature <b>PREDATOR UAV</b>

<u>Weapon System</u>					Subline Item Continued						
WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available?
A/V/General Atomics ASI	8		ASC/RAKB		SS	FFP	General Atomics	Dec-02	Nov-03	Yes	
FY 2004											
A/V/General Atomics ASI	8		ASC/RAKB		SS	FFP	General Atomics	Dec-03	Nov-04	Yes	
FY 2005											
A/V/General Atomics ASI	8		ASC/RAKB		SS	FFP	General Atomics	Dec-04	Nov-05	Yes	

**Remarks**

- A system is comprised of four air vehicles, one Ground Control Station (GCS), and one PPSL.  
PPSL will be procured seperately under a contract with L-3 Comm.  
The SAR will be procured seperately under a contract with Northrup Grumman (3 SARs per system).
- The FY98, FY99 and FY00 procurements include attrition air vehicles as well as system air vehicles.











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**FY 01 AMENDED BUDGET REQUEST**  
**BUDGET ACTIVITY 06 – AIRCRAFT SPARES AND REPAIR PARTS**  
**FEBRUARY 2000**

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<b>Exhibit P-40, Budget Item Justification</b>							Date: February 2000				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number											
<b>Aircraft Procurement, Air Force, Budget Activity 06, Aircraft Spares and Repair Parts</b>											
Program Element for Code B Items:		N/A			Other Related Program Elements:			N/A			
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Total Proc Cost (\$ M)			512.938	441.221	356.856	350.295	349.336	316.895	293.279		2620.820

**Description**

Aircraft Initial Spares (Budget Program 160000):

**FY 2001 Program Justification**

**MISSION AND DESCRIPTION**

Program Definition: Aircraft Initial Spares (Budget Program 160000):

This program finances whole spare engines and modules and reparable investment items including some items being newly introduced to the Air Force Inventory. Beginning in FY94, most initial spares were procured through the Working Capital Funds (WCF). When the spares are delivered, this central procurement account will reimburse WCF. The effect of this change was a shift of funds to the right, which may give the appearance of ramping requirements. However, it is important to note that this means that the funds budgeted in FY00 and FY01, for example, largely represent the payments for obligations already incurred by the WCF, and is really a shift in financing strategy. 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, consumables, Readiness Spares Package (RSP), New Acquisition Spares (NAS), and other production spares.

Exempt Spares.

This program finances spares that are not purchased through the WCF. The budget authority is a direct cite on the contract. Examples include whole spare engines, quick engine change (QEC) kits, Contractor Logistic Support (CLS), simulators/trainers, munitions, and classified spares.

FY 01 Program Justification:

In FY00 thru FY05, initial spares for the Reengineered Supply Support Process (RSSP) three aircraft pilot programs (C-130J, C-17, & F-22) are funded under BP-10; therefore, aircraft spares decreased. The E-8, E-3, B-2, F-16, B-1, Manned Reconnaissance System and initial spares for aircraft modification programs continue to make up the bulk of the budget request.

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Exhibit P-5, Weapon System Cost Analysis						Date: February 2000				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number										
<b>Aircraft Procurement, Air Force, Budget Activity 06, Aircraft Spares and Repair Parts</b>										
Manufacturer's Name/Plant City/State Location						Subline Item				
Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars								
		FY 1999			FY 2000			FY 2001		
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Avionics	A									
Armament	A									
Software	A									
Other Government Furnished Equipment (GFE)	A									
Engineering Change Orders (ECO)	A									
Nonrecurring Costs	A									
Other Costs	A									
FLYAWAY COST SUBTOTAL	A									
Airframe Peculiar Ground Support Equipment (PGSE)	A									
Engine PGSE	A									
Peculiar Training Equipment	A									
Publications/Technical Data	A									
ECOs	A									
Other	A									
SUPPORT COST SUBTOTAL	A									
INITIAL SPARES (Budget Program 16)	A			512.938			441.221			356.856
TOTAL PROGRAM										
<b>Comments</b>										

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Exhibit P-18A, Initial Spare Funding Summary					Date: February 2000	
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number						
Aircraft Procurement, Air Force, Budget Activity 06, Aircraft Spares and Repair Parts						
Initial Spare Funding Summary						
P-1 LINE	END ITEM NOMENCLATURE	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
1	B-52 Squadron	0.152	1.122	1.111	5.328	1.944
2	B-1 Squadrons	16.344	24.345	32.187	14.628	4.571
3	B-2 Squadrons	12.912	54.312	60.841	37.298	34.188
4	ICBM Helicopter Support	0.094	0.000	0.000	0.000	0.000
5	F-15A/B/C/D Squadrons	7.398	57.940	26.017	21.479	6.784
6	A-10 Squadrons	0.366	1.925	3.754	0.555	0.893
7	F-16 Squadrons	12.413	17.519	69.863	89.405	69.324
8	F-15 E Squadrons	1.702	4.191	28.353	22.215	14.674
9	F-117A Squadrons	0.176	0.476	0.000	0.000	0.000
10	Low Observables Test Equipment	0.000	0.000	0.000	0.000	0.011
11	Podded Reconnaissance System	0.000	0.000	0.000	0.000	0.000
12	F-22	0.000	24.937	0.000	0.000	0.000
13	Combat Rescue and Recovery	0.000	4.756	3.072	1.190	1.334
14	Precision Attack Systems (LANTIRN)	0.015	0.050	1.513	2.191	1.182
15	COMPASS CALL	7.138	1.658	8.318	8.587	12.246
16	Airborne Warning and Control Systems (AWACS)	6.515	3.298	40.717	8.404	11.052
17	Airborne Battlefield Command Control Center	0.186	0.692	0.509	0.488	0.486
18	Advanced Communications Systems	0.000	0.451	0.363	0.000	0.000
19	Combat Training Range Equipment	0.000	0.037	0.265	1.256	1.368
20	Common Electronic Countermeasures	0.000	0.000	0.000	0.717	0.000
21	JOINT STARS	35.292	66.835	73.685	28.824	9.546
22	Combat Development	0.000	0.000	0.000	0.118	0.121
23	E-4B National Airborne Operations Center	0.501	0.841	0.717	1.160	1.113
24	MILSATCOM Terminals	0.039	4.303	4.566	1.874	0.609
25	Aerial Targets	0.000	0.000	0.885	0.610	0.729
26	NAVSTAR Global Positioning System (User Eq)	0.045	0.331	0.000	0.000	0.000
27	Manned Reconnaissance System	16.455	40.665	40.772	56.808	60.497
28	C-130 Airlift Squadrons	11.121	10.178	2.054	0.000	1.883
29	C-141 Airlift Squadrons	1.953	0.000	0.000	0.000	0.000
30	C-5 Airlift Squadrons	2.503	2.661	2.448	11.458	26.816
31	C-17 Aircraft	125.867	110.952	0.000	0.000	0.000
32	C-130J Program	3.415	60.674	0.000	0.000	0.000
33	Airlift Mission Activities	0.686	0.951	0.287	0.000	0.000

Initial Spare Funding Summary  
Exhibit P-18A, page 3 of 5

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<b>Exhibit P-18A, Initial Spare Funding Summary</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number	
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<b>Aircraft Procurement, Air Force, Budget Activity 06, Aircraft Spares and Repair Parts</b>	
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<u>P-1 LINE</u>	<u>END ITEM NOMENCLATURE</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>
34	KC-135S	5.820	3.248	31.401	8.799	7.545
35	KC-10S	1.567	1.426	1.674	2.344	0.544
36	Operational Support Airlift	0.697	0.095	5.404	3.413	3.404
37	CV-22	0.000	0.000	0.000	16.960	68.244
38	Training	0.000	0.000	0.000	1.540	0.401
39	Special Operations Forces	0.000	7.853	0.000	0.000	0.000
40	Aerospace Rescue and Recovery	2.242	1.132	0.000	0.000	0.000
41	Training Aircraft (ANG)	0.000	0.000	0.001	0.001	0.000
42	F-16 Squadrons (AFR)	0.000	0.000	0.000	0.001	0.000
43	Tactical Cryptological Units (ANG)	0.882	0.884	0.000	0.000	0.000
44	Depot Maintenance (NON-IF)	0.000	2.057	0.396	0.073	0.000
45	Logistics Operations (Non-DBOF)	0.273	0.000	0.000	0.000	0.000
46	New AETC Aircraft System	0.000	0.027	0.000	0.000	0.000
47	Undergraduate Pilot Training	0.000	0.000	0.000	8.284	7.892
48	Undergraduate Navigator / NFO TNG	0.713	0.116	0.048	0.049	0.049
49	EURO-NATO Joint Jet Pilot Training	0.000	0.000	0.000	0.019	0.018
	<b>TOTAL INITIAL SPARES</b>	<b>275.482</b>	<b>512.938</b>	<b>441.221</b>	<b>356.076</b>	<b>349.468</b>

Initial Spare Funding Summary  
Exhibit P-18A, page 4 of 5



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<b>Exhibit P-18A, Initial Spare Funding</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 06, Aircraft Spares and Repair Parts</b>	

<b>Initial Spare Funding</b>						
<u>P-1 LINE</u>	<u>END ITEM NOMENCLATURE</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>
	WCF SPARES	203.384	320.693	249.609	207.686	154.504
	EXEMPT SPARES	72.098	192.245	191.612	148.390	194.964
	TOTAL INITIAL SPARES	275.482	512.938	441.221	356.076	349.468

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**FY 01 AMENDED BUDGET REQUEST**  
**BUDGET ACTIVITY 07 – AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES**  
**FEBRUARY 2000**

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**FY 01 AMENDED BUDGET REQUEST  
BP 12 - COMMON SUPPORT EQUIPMENT**

**FEBRUARY 2000**

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE:</b> FEBRUARY 2000		
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)				<b>P-1 NOMENCLATURE:</b> AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) (OVERVIEW)				
		<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>
<b>QUANTITY</b>								
<b>COST (in Thousands)</b>		\$156,119	\$175,350	\$177,943	\$189,520	\$157,956	\$191,153	\$192,068
<p><b>Description:</b></p> <p>1. This program (previously called Common Support Equipment) provides funding for the procurement of replacement organizational and intermediate (common and peculiar) support equipment for out-of-production aircraft. These items, common (used on more than one weapon system) and peculiar (unique to one weapon system), directly support aircraft maintenance and servicing requirements. These replacement requirements ensure continuation of serviceable, supportable equipment over the life of a weapon system. Items being replaced typically range in age from 10 to 30 years old. As a result, this equipment suffers frequent failures, cannot be economically repaired, and requires spare parts which are no longer available. Many items have become technologically obsolete or must be replaced due to environmental operating constraints. Items of equipment budgeted within this program include: avionics test stations, air conditioners, munitions handling equipment, jet engine test stands, electronic test sets, maintenance platforms, and automatic test equipment. These items support multiple Air Force weapon systems.</p> <p>2. FY00 funding increased from the FY00/01 President's Budget in accordance with FY00 Appropriation Conference Report (106-371), page 191, dated 8 Oct 1999 wherein Congress added funds for Common Support Equipment. Additionally, some funds (\$1.3 million) were added through FY99 Emergency Supplemental Appropriations and transferred to the Air Force in FY00 from the Overseas Contingency Operations Transfer Fund.</p> <p>3. Items requested in FY01 are identified on the attached P-40a and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support Air Force mission requirements.</p>								
			<b>P-1 ITEM NO:</b> 66			<b>PAGE NO:</b> 7 - 1	Page 1 of 1	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)							DATE: FEBRUARY 2000			
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)					<b>P-1 NOMENCLATURE:</b> AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) (OVERVIEW)					
PROCUREMENT ITEMS	ID CODE			FY1999		FY2000		FY2001		
		QTY.	COST	QTY.	COST	QTY.	COST	QTY.	COST	
1. AIR CONDITIONER, PD-501	A			22	\$6,382					
2. MOBILE AIRBORNE FIRE FIGHTING SYSTEM (MAFFS)	A			5	\$6,000	3	\$3,500			
3. LANTIRN SUPPORT AND BOMB DAMAGE ASSESSMENT	A						\$5,300			
4. MAINTENANCE PLATFORM HIGH REACH	A			16	\$8,582	11	\$6,077	10	\$5,690	
5. 305 RADIO TEST STATION	A			20	\$6,450	15	\$7,450	15	\$7,450	
6. 405 TRANSPORTABLE RADIO TEST STATION	A			28	\$8,750	15	\$7,450	15	\$7,450	
7. ELECTRONIC SYSTEM TEST STATION (ESTS)	A				\$19,900		\$20,025		\$22,525	
8. SELF GENERATING NITROGEN SERVICING CART (SGNSC)	A			2	\$635	209	\$7,152	360	\$12,038	
9. COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT (CAPRE)	A				\$500	270	\$8,092	270	\$5,266	
10. JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER (JSECST)	A							54	\$17,247	
11. ITEMS LESS THAN \$5 MILLION	A				\$98,920		\$110,304		\$100,277	
<b>Totals:</b>					\$156,119		\$175,350		\$177,943	
<b>Remarks:</b>										
			<b>P-1 ITEM NO:</b> 66				<b>PAGE NO:</b> 7 - 2			
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)				<b>P-1 NOMENCLATURE:</b> MAINTENANCE PLATFORM, HIGH REACH				
		<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>
<b>QUANTITY</b>								
<b>COST (in Thousands)</b>		\$8,582	\$6,077	\$5,690	\$14,064	\$8,450	\$1,243	\$1,281
<p><b>Description:</b></p> <p>1. The High Reach Maintenance Platform is a completely self-contained, hydraulically operated unit mounted on a truck type carrier. The aerial lift consists of a turret, inner and outer columns, and an inner/outer boom and platform. The inner/outer boom and platform form an integrated mechanical structure capable of transporting up to 1500 pounds through an extensive range of vertical and horizontal movement. The boom assembly can be extended to a maximum height of 125 feet and has a maximum horizontal reach of 60 feet. The High Reach Maintenance Platform enables maintenance personnel to safely work on, remove, and install stabilizers on the C-5 and C-17 aircraft. It also provides a service platform for deicing large aircraft. Lessons learned during Operation Allied Force have resulted in increased requirements for this maintenance platform to support real-world contingencies.</p> <p>2. Failure to procure this High Reach Maintenance Platform will severely impact mission readiness for the C-5 and C-17 aircraft. Lack of this equipment will suspend maintenance actions and prevent critical inspection procedures for these large transport aircraft due to inaccessibility of the tail sections. The only work-around currently identified borrowing another high reach platform from a different base lacks practicality under contingency operations and may increase aircraft nonavailability to unacceptable levels for mission requirements.</p> <p>3. Type Item: A</p>								
<b>P-1 ITEM NO:</b> 66				<b>PAGE NO:</b> 7 - 3		Page 1 of 1		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2000			
APPROP CODE/BA: APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)				P-1 NOMENCLATURE: MAINTENANCE PLATFORM, HIGH REACH						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
MAINTENANCE PLATFORM, HIGH REACH										
FY99 (1)	16	536,359	AFMC/SA-ALC	MIPR/OPT/FPE	DLA/TIME CONDOR CORP, WACO, TX (4)	FEB 99	JUN 99			
FY00 (2)	11	552,450	AFMC/SA-ALC	MIPR/OPT/FPE	DLA/TIME CONDOR CORP, WACO, TX	FEB 00	MAY 00	Y		
FY01 (3)	10	569,024	AFMC/SA-ALC	MIPR/OPT/FPE	DLA/TIME CONDOR CORP, WACO, TX	NOV 00	MAR 01	Y		
<b>REMARKS:</b> 1. FY99 unit cost decreased in accordance with DLA adjustments for escalation enabling the Air Force to increase procurement quantities. 2. FY00 projected unit cost based on adjusted FY99 DLA contract award. FY00 buy will be adjusted to maximize quantities toward Air Force inventory objective. 3. FY01 unit cost based on adjusted FY99 unit cost. 4. Calavar, Waco, TX, changed its' name to Time Condor Corp, Waco, TX.										
		<b>P-1 ITEM NO:</b> 66			<b>PAGE NO:</b> 7 - 4					
						Page 1 of 1				

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)				<b>P-1 NOMENCLATURE:</b> 305 RADIO TEST STATION				
		<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>
<b>QUANTITY</b>								
<b>COST (in Thousands)</b>		\$6,450	\$7,450	\$7,450	\$0	\$0	\$0	\$0
<p><b>Description:</b></p> <p>1. The 305 Radio Test Station, also known as the Radio Frequency Benchtop Reconfigurable Automatic Tester (RF BRAT), is a flexible test system based on an open architecture of commercial equipment in a modular design used to support E-3B/C aircraft. It can also be used as general purpose test equipment (GPTE). The test equipment consists of a systems controller, controller operational software, power source, RF modules, Analog/Digital modules and Test Program Sets (TPSs). This acquisition will provide a standard commercial test system for 78 different E-3 Airborne Warning &amp; Control System (AWACS) Line Replaceable Units (LRUs)/Shop Replaceable Units (SRUs). It replaces 14 different testers, allowing interchangeability of tester hardware between maintenance shops. This interchangeability will reduce work stoppages and eliminate proliferation of support equipment, greatly reducing logistics support requirements and costs. The TPSs automatically diagnose and troubleshoot failures in E-3B/C LRUs and SRUs. A TPS consists of test software, Interface Test Adapter (ITA), and cables used to connect the ITA to the item under test. Programming is done through a graphical environment, facilitating operator use/training.</p> <p>2. Failure to fund this program would greatly impair E-3B/C aircraft mission readiness. Incorporation of state-of-the-art TPSs facilitates reductions in testing time and maintenance costs while increasing the aircraft mission capable (MC) rates. Prior year funds procured 305 Radio Test Stations hardware requirements. FY99-01 funding continues support for this test station by procuring software requirements and funding essential integration support activities.</p> <p>3. Items requested in FY01 are identified on the following P-5 and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p>								
<b>P-1 ITEM NO:</b> 66				<b>PAGE NO:</b> 7 - 5		Page 1 of 1		

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 2000				
APPROP CODE/BA: APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)					P-1 NOMENCLATURE: 305 RADIO TEST STATION									
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
305 RADIO TEST STATION	A													
TEST PROGRAM SETS (TPS)					20	250,000	5,000	15	350,000	5,250	15	350,000	5,250	
INDEPENDENT VALIDATION & VERIFICATION (IV & V)							500			500			500	
PROGRAM SUPPORT										250			250	
INTERIM CONTRACT SUPPORT (ICS)							250			750			750	
DATA							700			700			700	
<b>TOTALS:</b>							6,450			7,450			7,450	
<b>REMARKS:</b>														
		<b>P-1 ITEM NO:</b> 66						<b>PAGE NO:</b> 7 - 6			Page 1 of 1			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)				<b>P-1 NOMENCLATURE:</b> 405 TRANSPORTABLE RADIO TEST STATION				
		<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>
<b>QUANTITY</b>								
<b>COST (in Thousands)</b>		\$8,750	\$7,450	\$7,450	\$0	\$0	\$0	\$0
<p><b>Description:</b></p> <p>1. The 405 Transportable Radio Test Station, also known as the Radio Frequency Transportable Benchtop Reconfigurable Automatic Tester (RF T-BRAT), is a flexible test system, based on an open architecture of commercial equipment in a modular design used to support E-3B/C aircraft. It can also be used as general purpose test equipment (GPTE). 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 test equipment consists of, but is not limited to, systems controller, controller operational software, power source, RF modules, Analog/Digital modules and Test Program Sets (TPSs). This procurement provides a transportable standard commercial test system for 78 different E-3 Airborne Warning &amp; Control Systems (AWACS) Line Replaceable Units (LRUs)/Shop Replaceable Units (SRUs). It replaces 14 different existing testers, allowing interchangeability of tester hardware between maintenance shops. This interchangeability reduces work stoppages, eliminates proliferation of support equipment and reduces overall logistics support requirements and costs. The TPSs diagnose and troubleshoot failures in LRUs and SRUs in the E-3B/C while the aircraft is in a deployed environment. A TPS consists of test software, Interface Test Adapter (ITA), and cables used to connect the ITA to the item being tested. Programming is done through a graphical facilitating operator use/training.</p> <p>2. Failure to fund this program would greatly impair the E-3B/C aircraft mission readiness. Incorporation of state-of-the-art TPSs facilitate reductions in testing time and maintenance costs while increasing the aircraft mission capable (MC) rates. Prior year funds procured 405 Radio Test Stations hardware requirements. FY99-01 funding continues support for this test station by procuring software requirements and funding essential integration support activities.</p>								
<b>P-1 ITEM NO:</b> 66				<b>PAGE NO:</b> 7 - 7		Page 1 of 2		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)		<b>P-1 NOMENCLATURE:</b> 405 TRANSPORTABLE RADIO TEST STATION			
<b>Description (cont.):</b>  3. Items requested in FY01 are identified on the following P-5 and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.					
	<b>P-1 ITEM NO:</b> 66		<b>PAGE NO:</b> 7 - 8		Page 2 of 2

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 2000				
APPROP CODE/BA: APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)					P-1 NOMENCLATURE: 405 TRANSPORTABLE RADIO TEST STATION									
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
405 TRANSPORTABLE RADIO TEST STATION	A													
DATA							700			700				700
TEST PROGRAM SETS (TPS)					28	250,000	7,000	15	350,000	5,250	15	350,000	5,250	
INTERIM CONTRACT SUPPORT (ICS)							250			750			750	
INDEPENDENT VALIDATION & VERIFICATION (IV&V)							500			500			500	
PROGRAM SUPPORT										250			250	
TEST/ENGR SUPPORT							300							
<b>TOTALS:</b>							8,750			7,450			7,450	
<b>REMARKS:</b>														
		<b>P-1 ITEM NO:</b> 66						<b>PAGE NO:</b> 7 - 9			Page 1 of 1			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)				<b>P-1 NOMENCLATURE:</b> ELECTRONIC SYSTEM TEST STATION (ESTS)				
		<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>
<b>QUANTITY</b>								
<b>COST (in Thousands)</b>		\$19,900	\$20,025	\$22,525	\$11,525	\$5,000	\$5,000	\$5,000
<p><b>Description:</b></p> <p>1. The Electronic System Test Station (ESTS) is a mobile test station comprised of multiple electronic components which will perform parametric testing for trouble shooting and repair of F-15 Line Replaceable Units (LRUs). While providing ambient air cooling to the LRU Unit Under Test (UUT), the ESTS evaluates the overall performance of the system and subsystems for the F-15 antenna, fire control and telemetering systems. Test Program Sets (TPSs) consist of software, interface test adapters, documentation and cables required as an interface between the ESTS and the aircraft LRUs. The ESTS has been designed as a stand alone system requiring one pallet to deploy in lieu of the 22 pallets required by the current Avionics Intermediate Shop (AIS) it replaces, while offering increased reliability, maintainability and reduced test cycle times. The existing F-15 AIS (developed in the early 1970s) contains obsolete electronic components and has become increasingly unsupportable. The ESTS supports the following Air Force aircraft: F/TF-15 A/B/C/D/E.</p> <p>2. Failure to fund the ESTS program will hamper the F-15's ability to sustain required rate of sortie operations due to the backlog of failed aircraft systems requiring testing and repair. The older AIS test stations cannot accommodate existing workloads under sustained high operational tempo or deployed conditions. Air Combat Command's requirement for a truly mobile tester to meet Expeditionary Air Force requirements cannot be met by modifying the AIS, which has become technologically outdated and virtually impossible to deploy. Prior year funds procured Electronic System Test Stations hardware requirements. FY99-01 funding continues support for this test station by procuring software requirements and funding essential integration support activities.</p> <p>3. Items requested in FY01 are identified on the following P-5 and are representative of items to be procured. Items procured during execution</p>								
<b>P-1 ITEM NO:</b> 66				<b>PAGE NO:</b> 7 - 10		Page 1 of 2		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)		<b>P-1 NOMENCLATURE:</b> ELECTRONIC SYSTEM TEST STATION (ESTS)			
<b>Description (cont.):</b> may change based on critical equipment needed to support current Air Force mission requirements.					
	<b>P-1 ITEM NO:</b> 66		<b>PAGE NO:</b> 7-11		Page 2 of 2

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 2000				
APPROP CODE/BA: APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)					P-1 NOMENCLATURE: ELECTRONIC SYSTEM TEST STATION (ESTS)									
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
ELECTRONIC SYSTEM TEST STATION (ESTS)	A													
INTERFACE TEST ADAPTERS (ITA)								80	166600	13,328				
ITA HARDWARE RETROFIT (1)							3,255							
INTERIM CONTRACTOR SUPPORT (ICS) (2)							12,959			4,697				8,245
TPS PRODUCTION UPDATE (3)							125							
Y2K SYSTEM CONTROLLERS							1,438							
GOVERNMENT FURNISHED EQUIPMENT REPAIR / REFURBISH (4)							2026			2,000				2,598
ADVISORY AND ASSISTANCE SERVICES							97							
RADIO LINE REPLACEABLE UNITS (LRU) TPS (5)											40	292050		11,682
<b>TOTALS:</b>							19,900			20,025				22,525
<b>REMARKS:</b> 1. Upgrading of developmental ITAs to production configuration. 2. Interim Contractor Support provides for the following: Inclusive maintenance support to include purchase of a material augmentation package to allow for quick turnaround of parts, tech orders, deficiency reports, and configuration management. 3. Upgrade two Qualification Test and Evaluation (QT&E) ITA sets from pre-production configuration to production configuration. 4. Repair/refurbish GFE failures during testing. 5. Unit cost for Radio LRU TPS based on contractor engineering estimate.														
		<b>P-1 ITEM NO:</b> 66						<b>PAGE NO:</b> 7 - 12			Page 1 of 1			

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)				<b>P-1 NOMENCLATURE:</b> SELF-GENERATING NITROGEN SERVICING CART (SGNSC)				
		<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>
<b>QUANTITY</b>								
<b>COST (in Thousands)</b>		\$635	\$7,152	\$12,038	\$12,434	\$12,811	\$5,425	\$0
<p><b>Description:</b></p> <p>1. The Self-Generating Nitrogen Servicing Cart (SGNSC) is a self-contained, diesel engine powered, four wheel, towable cart weighing less than 4,000 pounds. It produces gaseous nitrogen through use of a plastic fiber membrane that separates pure nitrogen from ambient compressed air. The SGNSC will be used throughout the Air Force to service aircraft tires, struts, and accumulators. The unit replaces three unreliable and obsolete systems: (1) the liquid nitrogen servicing cart, (2) six and eight bottle nitrogen servicing carts, and (3) an air compressor. The SGNSC will be rapidly deployable to support expeditionary operations and capable of supporting aircraft under remote, austere basing conditions. The SGNSC will provide significant improvements to logistics supportability and personnel safety by eliminating the need to store and transport liquid nitrogen. All major USAF aircraft weapon systems are supported by the SGNSC: A-10, B-1B, B-2, B-52, C-5, C-17, C-20, C-130, C-135, C-141, E-8, EC-3A, F-15, F-16, F-117, T-37, T-38, and T-39.</p> <p>2. Failure to procure the SGNSC would result in Air Force dependence on unreliable, obsolete systems and fail to provide essential technological improvements key to supporting forward basing and rapid deployment under the Air Expeditionary Force concept. The SGNSC will be more efficient, safe, maintainable, and cost effective than the present systems for servicing Air Force aircraft. Currently, servicing carts must be filled with liquid nitrogen supplied by either a cryogenic plant or through contract services and then converted to gaseous nitrogen in the servicing cart -- a hazardous and time consuming operation. Nonavailability of the required quantities of liquid nitrogen in the local area of a deployment forces the Air Force to 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, which has become critical to current peacetime and wartime missions.</p>								
<b>P-1 ITEM NO:</b> 66				<b>PAGE NO:</b> 7 - 13		Page 1 of 2		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)		<b>P-1 NOMENCLATURE:</b> SELF-GENERATING NITROGEN SERVICING CART (SGNSC)			
<b>Description (cont.):</b>  3. FY00 funding increased from FY00/01 President's Budget in accordance with FY00 Appropriation Conference Report (106-371), dated 8 Oct 1999 wherein Congress increased funding for the SGNSC.  4. Items requested in FY01 are identified on the following P-5 and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.					
	<b>P-1 ITEM NO:</b> 66		<b>PAGE NO:</b> 7 - 14		Page 2 of 2

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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)</b>							<b>DATE:</b> FEBRUARY 2000						
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)							<b>P-1 NOMENCLATURE:</b> SELF-GENERATING NITROGEN SERVICING CART (SGNSC)						
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
SGNSC	A							209	34,220	7,152	360	33,440	12,038
FIRST ARTICLE UNITS	A				2	244,304	489						
TECHNICAL MANUALS							60						
TRAINING (TYPE I)							46						
PROVISIONING DATA							40						
<b>TOTALS:</b>							635			7,152			12,038
<b>REMARKS:</b>													
<b>P-1 ITEM NO:</b> 66		<b>PAGE NO:</b> 7 - 15			Page 1 of 1								

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2000			
APPROP CODE/BA: APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)				P-1 NOMENCLATURE: SELF-GENERATING NITROGEN SERVICING CART (SGNSC)						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
SGNSC										
FY99 FIRST ARTICLE UNITS	2	244,304	AFMC/SA-ALC	C/FFP	PACIFIC CONSOLIDATED INDUSTRIES, SANTA ANA, CA	OCT 98	FEB 00			
FY00	209	34,220	AFMC/SA-ALC	OPT/FFP	PACIFIC CONSOLIDATED INDUSTRIES, SANTA ANA, CA	FEB 00	APR 00	Y		
FY01	360	33,440	AFMC/SA-ALC	OPT/FFP	PACIFIC CONSOLIDATED INDUSTRIES, SANTA ANA, CA	DEC 00	FEB 01	Y		
REMARKS:										
		P-1 ITEM NO: 66				PAGE NO: 7 - 16				
						Page 1 of 1				

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)				<b>P-1 NOMENCLATURE:</b> COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT				
		<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>
<b>QUANTITY</b>								
<b>COST (in Thousands)</b>		\$500	\$8,092	\$5,266	\$7,259	\$7,311	\$7,480	\$7,173
<p><b>Description:</b></p> <p>1. The Common Aircraft Portable Reprogramming Equipment (CAPRE) replaces the Program Loader Verifier (PLV) and Digital Computer System (DCS). The CAPRE will be used on the flightline to reprogram software in aircraft computers, update threat data in electronic warfare pods, perform aircraft diagnostic troubleshooting, and support automated technical orders and related maintenance information systems. This equipment supports the following Air Force weapon systems: A-10, B-52, C-5, C-17, C-130, F-15, F-16, H-60, and MH-53.</p> <p>2. Modern combat missions rely on the rapid deployment of updated operational flight software and enemy threat information for reducing aircrew vulnerability and enhancing mission effectiveness. Current PLVs and DCSs are becoming increasingly unsupportable due to obsolescence of their internal components. Failure to procure the CAPRE will prevent essential loading of classified mission data onto the aircraft. Without the most current threat data, mission capability will be reduced and could result in the loss of aircraft and life. Maintenance capability will also be degraded, adversely affecting aircraft readiness.</p> <p>3. Items requested in FY01 are identified on the following P-5 and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p>								
			<b>P-1 ITEM NO:</b> 66			<b>PAGE NO:</b> 7 - 17	Page 1 of 1	

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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)</b>												<b>DATE:</b> FEBRUARY 2000		
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)						<b>P-1 NOMENCLATURE:</b> COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY1999			FY2000			FY2001			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
CAPRE	A							270	9,137	2,467	270	9,137	2,467	
BID SAMPLE TESTING (1)						500								
TECHNICAL ORDER										55			55	
AIRCRAFT ADAPTER GROUPS (AAG) (2)										5,289			2,273	
DATA										29			11	
INTERIM CONTRACTOR SUPPORT (ICS) (3)										252			460	
<b>TOTALS:</b>							500			8,092			5,266	
<b>REMARKS:</b> 1. This is a COTS item, but the government requires testing that exceeds the testing performed by the contractor, i.e. explosive atmosphere, flight line certification, etc. Contractor will also be responsible for developing a controlled database with all test results and aircraft reprogramming requirements. 2. Aircraft Adapter Groups (AAG) are required to interface the CAPRE and the weapons system being loaded. 3. Interim Contractor Support provides specified maintenance, technical and repair support.														
		<b>P-1 ITEM NO:</b> 66				<b>PAGE NO:</b> 7 - 18						Page 1 of 1		

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2000			
APPROP CODE/BA: APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)				P-1 NOMENCLATURE: COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
CAPRE										
FY00	270	9,137	AFMC/SA-ALC	MIPR/FFP	GSA/UNKNOWN	MAR 00	APR 00	Y		
FY01	270	9,137	AFMC/SA-ALC	MIPR/FFP	GSA/UNKNOWN	NOV 00	DEC 00	Y		
<p><b>REMARKS:</b>  FY99 contract awarded to Southwest Research Institute, San Antonio, TX, for bid sample testing only. The Air Force changed acquisition strategy from the FY00/01 President's Budget to select a contractor off the GSA schedule, hence the reduction in unit cost and delivery leadtimes. FY00 contract will be 3-year Requirements contract with 2 options.</p>										
		<b>P-1 ITEM NO:</b> 66				<b>PAGE NO:</b> 7 - 19		Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)				<b>P-1 NOMENCLATURE:</b> JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER				
		<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>
<b>QUANTITY</b>								
<b>COST (in Thousands)</b>		\$0	\$0	\$17,247	\$31,205	\$0	\$0	\$0
<p><b>Description:</b></p> <p>1. The Joint Service Electronic Combat System Tester (JSECST) is a flightline end-to-end electronic combat system test set capable of verifying system status and providing malfunction diagnostics for Air Force and Navy aircraft. The JSECST will replace the Navy USM-406C/D tester, augment the Navy USM-482A tester, and fill a void in current Air Force electronic combat systems testing capability. Five prototypes currently in engineering manufacturing development (EMD) are being procured with RDT&amp;E funds, documented in the Air Force Descriptive Summaries in PE 64270F. This tester supports the following Air Force aircraft: A-10, C-130, F-15 and F-16.</p> <p>2. The Combat Air Force considers the JSECST a top priority procurement item due to the increasing importance of aircraft electronic systems to ensuring aircraft combat effectiveness. Failure to procure the JSECST will leave field level units incapable of flightline electronic system test capability for combat aircraft, ultimately impacting readiness and sortie rate generation.</p> <p>3. Items requested in FY01 are identified on the following P-5 and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support current Air Force mission requirements.</p>								
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<b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)</b>						<b>DATE:</b> FEBRUARY 2000							
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)						<b>P-1 NOMENCLATURE:</b> JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER							
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
JSECST	A										54	186,065	10,048
TEST PROGRAM SETS (TPS)													6,227
ENG CHANGE ORDERS (ECO)													972
<b>TOTALS:</b>													17,247
<b>REMARKS:</b> The Air Force and the Navy are buying the same core JSECST Test Sets; however, each service has specific Test Program Set (TPS) requirements.													
<b>P-1 ITEM NO:</b> 66		<b>PAGE NO:</b> 7 - 21			Page 1 of 1								

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<b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>							<b>DATE:</b> FEBRUARY 2000			
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)				<b>P-1 NOMENCLATURE:</b> JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
JSECST										
FY01	54	186,065	AFMC/ASC	SS/FFP	AAI CORP, HUNT VALLEY, MD	APR 01	DEC 01	Y		
<p><b>REMARKS:</b>                      First article testing is being accomplished on R&amp;D EMD units. Based on the current acquisition plan, if the contractor, AAI Corp. meets a Production Price Commitment Curve (PPCC) established during award of the R&amp;D contract, the Government will award a sole source production contract after Critical Design Review. A production award is scheduled for no later than Apr 01 with first delivery in Dec 01.</p>										
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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000				
		<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>
<b>QUANTITY</b>								
<b>COST (in Thousands)</b>		\$98,920	\$110,304	\$100,277	\$80,897	\$76,946	\$70,700	\$76,250
<p><b>Description:</b></p> <p>1. The "Items Less Than \$5 Million" line procures replacement organizational and intermediate (common and peculiar) support equipment for out-of-production aircraft. Common items (used on more than one weapon system) and peculiar items (unique to one weapon system) directly support aircraft maintenance and servicing requirements. These replacement items ensure continuation of serviceable, supportable equipment over the life of a weapon system, and consist of over 70,000 national stock numbers (NSNs) items as well as numerous items which are non-stocklisted (NSL).</p> <p>2. All items have an annual procurement value of less than \$5,000,000 and are designated Code A. Items requested in FY01 are identified on the following P-40a and are representative of items to be procured. Items procured during execution may change based on critical equipment needed to support Air Force mission requirements.</p>								
			<b>P-1 ITEM NO:</b> 66			<b>PAGE NO:</b> 7 - 23	Page 1 of 1	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2000	
APPROP CODE/BA: APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000			
PROCUREMENT ITEMS	NSN			FY2001	
		QTY.	COST	QTY.	COST
MAJOR PROCUREMENTS					
MHU-83D/E LIFT TRUCK	1730014462422			64	\$4,561
C-5 ISOCHRONIC MAINTENANCE PLATFORM	1730001573976			1	\$3,955
UMS, DIESEL, SPLIT DECK MAINT PLATFORM	1730013704268			33	\$3,722
15 TON PNEUMATIC LIFTING BAG	5120012842611YZ			120	\$3,591
ENVIRONMENTAL CONTROL SYSTEM TEST SET	4920014242115FX			70	\$3,380
C-5 EMPANNAGE STAND	1730001583039			2	\$3,186
IDENTIFICATION FRIEND OR FOE INTERROGATOR/TRANSPONDER TEST SET (IFFITTS)	6625014584627			240	\$3,179
TRUCK MOUNTED DEICER	1730005556205			16	\$3,544
NEW GENERATION HEATER	NSL			200	\$2,368
MINOR PROCUREMENTS (GROUPED BY FEDERAL SUPPLY CLASS (FSC))					
FSC 1560 AIRCRAFT STRUCTURAL COMPONENTS					\$6
FSC 1670 PARACHUTES AND AERIAL PICKUP, DELIVERY, RECOVERY SYSTEMS AND CARGO TIEDOWN EQUIPMENT					\$94
P-1 ITEM NO: 66		PAGE NO: 7 - 24		Page 1 of 4	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2000	
APPROP CODE/BA: APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000			
PROCUREMENT ITEMS	NSN			FY2001	
		QTY.	COST	QTY.	COST
FSC 1680 MISCELLANEOUS AIRCRAFT ACCESSORIES AND COMPONENTS					\$285
FSC 1710 AIRCRAFT, ARRESTING, BARRIER AND BARRICADE EQUIPMENT					\$589
FSC 1730 AIRCRAFT GROUND SERVICING EQUIPMENT					\$21,242
FSC 1740 AIR FIELD SPECIALIZED TRUCKS AND TRAILERS					\$15
FSC 2330 TRAILERS					\$41
FSC 3655 GAS GENERATING AND DISPENSING SYSTEMS, FIXED OR MOBILE					\$928
FSC 3940 BLOCKS, TACKLE, RIGGING AND SLINGS					\$1
FSC 3950 WINCHES, HOISTS, CRANES AND DERRICKS					\$155
FSC 4110 REFRIGERATION EQUIPMENT					\$17
FSC 4120 AIR CONDITIONING EQUIPMENT					\$2
FSC 4310 COMPRESSORS AND VACUUM PUMPS					\$700
FSC 4320 POWER AND HAND PUMPS					\$25
FSC 4520 SPACE HEATING EQUIPMENT AND DOMESTIC WATER HEATERS					\$245
FSC 4720 HOSE AND TUBING, FLEXIBLE					\$3
FSC 4910 MOTOR VEHICLE MAINTENANCE AND REPAIR SHOP SPECIALIZED EQUIPMENT					\$50
FSC 4920 AIRCRAFT MAINTENANCE AND REPAIR SHOP SPECIALIZED EQUIPMENT, EXCEPT AIRBORNE ELECTRONICS					\$20,201
FSC 4930 LUBRICATION AND FUEL DISPENSING EQUIPMENT					\$143
<b>P-1 ITEM NO:</b> 66		<b>PAGE NO:</b> 7 - 25		Page 2 of 4	

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BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2000	
APPROP CODE/BA: APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000			
PROCUREMENT ITEMS	NSN			FY2001	
		QTY.	COST	QTY.	COST
FSC 4933 WEAPONS MAINTENANCE AND REPAIR SHOP SPECIALIZED EQUIPMENT					\$51
FSC 4940 MISCELLANEOUS MAINTENANCE REPAIR SHOP SPECIALIZED EQUIPMENT AND BETWEEN MAINTENANCE AND REPAIR					\$12
FSC 5110 HAND TOOLS, EDGED, NONPOWERED					\$217
FSC 5120 HAND TOOLS, NONEDGED, NOWPOWERED					\$3,801
FSC 5130 HAND TOOLS, POWER DRIVEN					\$200
FSC 5180 SETS, KITS, AND OUTFITS OF HAND TOOLS					\$3,072
FSC 5210 MEASURING TOOLS CRAFTMAN'S					\$88
FSC 5220 INSPECTION GAGES AND PRECISION LAYOUT TOOLS					\$260
FSC 5280 SETS, KITS, AND OUTFITS OF MEASURING TOOLS					\$33
FSC 5340 MISCELLANEOUS HARDWARE					\$4
FSC 5365 RINGS, SHIMS, AND SPACERS					\$1
FSC 5935 CONNECTORS, ELECTRICAL					\$7
FSC 5995 CABLE, CORD AND WIRE ASSEMBLIES; COMMUNICATION EQUIPMENT					\$2
FSC 6080 FIBER OPTIC KITS AND SETS					\$4
FSC 6115 GENERATORS AND GENERATOR SETS, NONAIRBORNE (YV CODED ITEMS)					\$2,142
FSC 6130 CONVERTERS, ELECTRICAL, NONROTATING					\$79
FSC 6150 MISCELLANEOUS ELECTRIC POWER AND DISTRIBUTION EQUIPMENT					\$2,146
<b>P-1 ITEM NO:</b> 66		<b>PAGE NO:</b> 7 - 26		Page 3 of 4	

# UNCLASSIFIED



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<b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)</b>	<b>DATE: FEBRUARY 2000</b>
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<b>APPROP CODE/BA:</b> APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)	<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000
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PROCUREMENT ITEMS	NSN			FY2001	
		QTY.	COST	QTY.	COST
FSC 6230 ELECTRIC PORTABLE AND HAND LIGHTING EQUIPMENT					\$1
FSC 6610 FLIGHT INSTRUMENTS					\$1
FSC 6625 ELECTRICAL AND ELECTRONIC PROPERTIES MEASURING AND TESTING INSTRUMENT					\$4,654
FSC 6635 PHYSICAL PROPERTIES TESTING EQUIPMENT					\$1,446
FSC 6636 ENVIRONMENTAL CHAMBERS RELATED EQUIPMENT					\$4
FSC 6650 OPTICAL INSTRUMENTS					\$1,135
FSC 6665 HAZARD DETECTING INSTRUMENTS AND APPARATUS					\$149
FSC 6670 SCALES AND BALANCES					\$39
FSC 6675 DRAFTING, SURVEYING AND MAPPING INSTRUMENTS					\$133
FSC 6680 LIQUID AND GAS FLOW, LIQUID LEVEL, AND MECHANICAL MOTION MEASURING INSTRUMENTS					\$106
FSC 6685 PRESSURE, TEMPERATURE, AND HUMIDITY, MEASURING AND CONTROLLING INSTRUMENTS					\$17
FSC 6695 COMBINATION AND MISCELLANEOUS INSTRUMENTS					\$3
FSC 7025 AUTOMATIC DATA PROCESSING INPUT/OUTPUT AND STORAGE DEVICES					\$9
NSL NON-STOCKLISTED					\$4,233
<b>TOTALS:</b>					\$100,277

	<b>P-1 ITEM NO:</b> 66		<b>PAGE NO:</b> 7 - 27	Page 4 of 4
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**FY 01 AMENDED BUDGET REQUEST  
BP 13 - POST PRODUCTION SUPPORT  
FEBRUARY 2000**



**UNCLASSIFIED**

<b>Exhibit P-5, Weapon System Cost Analysis</b>							Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 67</b>							P-1 Line Item Nomenclature <b>A-10 Post Prod Support</b>			
Manufacturer's Name/Plant City/State Location Lockheed Martin Technology Services, Mesa, AZ					Subline Item					
Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars								
		FY 1999			FY 2000			FY 2001		
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Avionics	A									
Armament	A									
Software	A									
Other Government Furnished Equipment (GFE)	A									
Engineering Change Orders (ECO)	A									
Nonrecurring Costs	A									
Other Costs	A									
FLYAWAY COST SUBTOTAL	A									
Airframe Peculiar Ground Support Equipment (PGSE)	A									
Engine PGSE	A									
Peculiar Training Equipment	A	4		10.957	3		7.908			
Publications/Technical Data	A									
ECOs	A									
Other	A						0.194			
SUPPORT COST SUBTOTAL	A			10.957			8.102			
TOTAL PROGRAM				10.957			8.102			
<b>Comments</b>										
P-1 Shopping List Item No. 67							Weapon System Cost Analysis Exhibit P-5, page 2 of 5			

**UNCLASSIFIED**

<b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 67</b>	P-1 Line Item Nomenclature <b>A-10 Post Prod Support</b>
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**Weapon System A-10**

**Equipment Nomenclature: Unit Training Device (UTD)**

Fin Plan	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total
Proc	10.957	8.102						19.059

**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, and threat avoidance.

P-1 Shopping List Item No. 67	<b>Simulator and Training Device Justification (\$ M)</b>
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**Exhibit P-43 p.1, page 3 of 5**

**UNCLASSIFIED**

<b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 67</b>	P-1 Line Item Nomenclature <b>A-10 Post Prod Support</b>
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**Weapon System A-10**

**Equipment Nomenclature: Unit Training Device (UTD)**

IOC Date										
TRAINING DEVICE BY TYPE	SITE	DELIVERY TIME	READY TRAINING DATE	AVG STUDENT THROUGH PUT	FY 1999		FY 2000		FY 2001	
					QTY	COST	QTY	COST	QTY	COST
	A-10 Units				4	10.957	3	8.102		
<u>TOTAL</u>					4	10.957	3	8.102		

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P-1 Shopping List Item No. 67	<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.2, page 4 of 5
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**UNCLASSIFIED**

<b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 67</b>	P-1 Line Item Nomenclature <b>A-10 Post Prod Support</b>
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**Weapon System A-10**

**Equipment Nomenclature: Aircrew Trainers**

**Description:**

This page is not required - Does not exceed \$5M for Unit Training Device (UTD).

FINANCIAL PLAN	FY 1999		FY 2000		FY 2001		To Complete		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
<b>Hardware Costs</b>										
	4	10.957	3	8.102						
<b>Total Hardware Costs</b>	4	10.957	3	8.102						
<b>Support Costs</b>										
<b>Total Support Costs</b>										
<b>TOTAL COSTS</b>	4	10.957	3	8.102						

P-1 Shopping List Item No. 67	<b>Simulator and Training Device Justification (\$ M)</b>
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Exhibit P-43 p.3, page 5 of 5

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<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 68</b>								P-1 Line Item Nomenclature <b>B-2A Post Prod Support</b>			
Program Element for Code B Items:		11127F			Other Related Program Elements:				N/A		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Total Proc Cost (\$ M)			243.442	65.876	18.603	12.559	3.311	7.402	7.593		358.786

**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 profile provides efficient cruise and good airfield performance. The B-2 bomber exploits breakthroughs in low observables technology (radar, infrared, 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 2001 Program Justification**

The FY 2001 program contains costs associated with technical orders, peculiar support equipment, long-term software support, program management administrative requirements, and non-recurring ( including curtailment).

**UNCLASSIFIED**

Exhibit P-5, Weapon System Cost Analysis						Date: February 2000					
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 68</b>						P-1 Line Item Nomenclature <b>B-2A Post Prod Support</b>					
Manufacturer's Name/Plant City/State Location Northrop Grumman CForp., B-2 Division, Pico Rivera, Ca.						Subline Item					
Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars									
		FY 1999			FY 2000			FY 2001			
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	
Avionics	A										
Armament	A						5.000			2.000	
Software	A										
Other Government Furnished Equipment (GFE)	A										
Engineering Change Orders (ECO)	A			0.000							
Nonrecurring Costs	A			13.600			18.700			4.900	
Other Costs	A			36.100							
<b>FLYAWAY COST SUBTOTAL</b>	A			49.700			23.700			6.900	
Airframe Peculiar Ground Support Equipment (PGSE)	A			28.300			8.200			2.200	
Engine PGSE	A			0.000			0.000				
Peculiar Training Equipment	A			17.700			4.000				
Publications/Technical Data	A			2.400			1.500			0.100	
ECOs	A										
Other	A			8.042			5.676			0.500	
<b>SUPPORT COST SUBTOTAL</b>	A			56.442			19.376			2.800	
ICS	A			45.600							
S/W INVESTMENT	A			77.600			13.300			5.300	
PROG. MGMT. ADM. RQMTS	A			14.100			9.500			3.603	
<b>TOTAL PROGRAM</b>				243.442			65.876			18.603	
<b>Comments</b>											
P-1 Shopping List Item No. 68						Weapon System Cost Analysis Exhibit P-5, page 2 of 6					

**UNCLASSIFIED**

<b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 68</b>	P-1 Line Item Nomenclature <b>B-2A Post Prod Support</b>
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**Weapon System B-2A**

**Equipment Nomenclature: Unit Training Device (UTD)**

Fin Plan	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total
Quantity	0	0	0	0	0	0	0	0
Procurement	17.700	4.000	0.000	0.000	0.000	0.000	0.000	21.700
RDT&E	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
O&S	12.800	10.000	10.600	10.800	11.000	11.200	11.400	77.800

**TRAINING SYSTEM DESCRIPTION**

The Training System consists of training equipment hardware, software, and courseware, training missions and classroom academic materials. The maintenance training began in May 1993. Aircrew training began in Jan 1994. The maintenance trainers consist of the Computer Maintenance Training System, Weapons 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 Weapons Loading Trainer is an armament loading trainer. The Training Support Center, System Support Center and the Training Library are support devices for the above listed trainers. FY99 and FY00 procurement funds are for Post-Block 30 correction of deficiencies, flight performance updates and concurrency changes. Included is Non-recurring effort for engineering changes, testing and hardware/software integration.

P-1 Shopping List Item No. 68	<b>Simulator and Training Device Justification (\$ M)</b>
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	<b>Exhibit P-43 p.1, page 3 of 6</b>
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<b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 68</b>	P-1 Line Item Nomenclature <b>B-2A Post Prod Support</b>

**Weapon System B-2A**

**Equipment Nomenclature: Unit Training Device (UTD)**

<b>IOC Date</b>	Initial RFT: Dec 93									
TRAINING DEVICE BY TYPE	SITE	DELIVERY TIME	READY TRAINING DATE	AVG STUDENT THROUGH PUT	FY 1999		FY 2000		FY 2001	
					QTY	COST	QTY	COST	QTY	COST
Maintenance Concurrency Updates						13.000		0.000		
Air Vehicle Concurrency Updates						4.700		4.000		
<u>TOTAL</u>						17.700		4.000		

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P-1 Shopping List Item No. 68	<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.2, page 4 of 6
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**UNCLASSIFIED**

<b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 68</b>	P-1 Line Item Nomenclature <b>B-2A Post Prod Support</b>

**Weapon System B-2A**

**Equipment Nomenclature: Aircrew Trainers**

**Description:**

Contains funding for block updates to maintain concurrency with the air vehicle.

FINANCIAL PLAN	FY 1999		FY 2000		FY 2001		To Complete		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
<b>Hardware Costs</b>										
		4.700		4.000		0.000				8.700
<b>Total Hardware Costs</b>		4.700		4.000		0.000				8.700
<b>Support Costs</b>										
<b>Total Support Costs</b>										
<b>TOTAL COSTS</b>		4.700		4.000		0.000				8.700

**UNCLASSIFIED**

<b>Exhibit P-43 p.4, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 68</b>	P-1 Line Item Nomenclature <b>B-2A Post Prod Support</b>

**Weapon System B-2A**

**Equipment Nomenclature: Maintenance**

**Description:**

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

FINANCIAL PLAN	FY 1999		FY 2000		FY 2001		To Complete		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
<b>Hardware Costs</b>										
		13.000								13.000
<b>Total Hardware Costs</b>		13.000								13.000
<b>Support Costs</b>										
<b>Total Support Costs</b>										
<b>TOTAL COSTS</b>		13.000								13.000

P-1 Shopping List Item No. 68	<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.4, page 6 of 6
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**UNCLASSIFIED**

<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 69</b>								P-1 Line Item Nomenclature <b>B-2A ICS</b>			
Program Element for Code B Items:		N/A11			Other Related Program Elements:				11127F		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Cost (\$ M)											
Interim Ctr Support (\$ M)				46.467	42.700	3.000	3.900				96.067
Advance Proc Cost (\$ M)											
Weapon System Cost (\$ M)				46.467	42.700	3.000	3.900				96.067
Initial Spares (\$ M)											
Total Proc Cost (\$ M)				46.467	42.700	3.000	3.900				96.067
Flyaway Unit Cost (\$ M)											
Wpn Sys Unit Cost (\$ M)											
<p><b>Description</b> Aeronautical Vehicle ICS provides Maintenance (Repair) Capability to meet Air Combat Command's (ACC) Operational requirements. The ICS program is a comprehensive repair capability until permanent depot capability is established.</p> <p><b>FY 2001 Program Justification</b> Interim Contractor Support is required in FY01 to maintain the B-2 Aircraft fleet .</p>											

P-1 Shopping List Item No. 69

**Budget Item Justification**  
**Exhibit P-40, page 1 of 2**

**UNCLASSIFIED**

<b>Exhibit P-5, Weapon System Cost Analysis</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 69</b>	P-1 Line Item Nomenclature <b>B-2A ICS</b>
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Manufacturer's Name/Plant City/State Location	Subline Item
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Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars								
		FY 1999			FY 2000			FY 2001		
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Interim Contractor Support	A						46.467			42.700
<b>TOTAL PROGRAM</b>										

**Comments**  
 B-2 ICS requirements for FY02 and beyond are being evaluated and will be revised as necessary in future budget cycles until full organic maintenance capability is achieved.



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<b>Exhibit P-40, Budget Item Justification</b>						Date: February 2000					
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 70</b>						P-1 Line Item Nomenclature <b>C-5 Post Prod Support</b>					
Program Element for Code B Items:			N/A			Other Related Program Elements:					
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A		1								1
Total Proc Cost (\$ M)			27.715								27.715

**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. Funding supports the procurement of one (1) C-5 simulator for the Air National Guard.

**FY 2001 Program Justification**

N/A

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<b>Exhibit P-5, Weapon System Cost Analysis</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 70</b>	P-1 Line Item Nomenclature <b>C-5 Post Prod Support</b>
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Manufacturer's Name/Plant City/State Location	Subline Item
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Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars								
		FY 1999			FY 2000			FY 2001		
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Peculiar Training Equipment	A	1		27.715						
Publications/Technical Data	A									
ECOs	A									
Other	A									
<b>SUPPORT COST SUBTOTAL</b>	A			27.715						
<b>TOTAL PROGRAM</b>				27.715						

**Comments**

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P-1 Shopping List Item No. 70	Weapon System Cost Analysis Exhibit P-5, page 2 of 3
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**UNCLASSIFIED**

<b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 70</b>	P-1 Line Item Nomenclature <b>C-5 Post Prod Support</b>
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**Weapon System C-5**

**Equipment Nomenclature: Unit Training Device (UTD)**

Fin Plan	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total
Quantity	1							1
Procurement	27.715							27.715

**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.

P-1 Shopping List Item No. 70	<b>Simulator and Training Device Justification (\$ M)</b>
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**Exhibit P-43 p.1, page 3 of 3**

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<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b>								P-1 Line Item Nomenclature <b>C-130 Post Prod Support</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:				PE: 0401115F		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Total Proc Cost (\$ M)					1.365	1.361	1.362	1.367	1.369		6.824
<p><b>Description</b> C-130H is for the immediate and responsive air movement and delivery of combat troops and supplies directly in objective areas through airlanding, extraction, airdrop or other delivery techniques. Provides air logistic support for all theater forces, including those engaged in combat operations, to meet specific theater objectives and requirements.</p> <p><b>FY 2001 Program Justification</b> Provides interim contract support for 121 AN/APN-241 radar sets installed on C-130H and HC-130P aircraft. Interim contract support required until long term support strategy is determined with Avionics Modernization Program via SORAP.</p>											

P-1 Shopping List Item No. 71

**Budget Item Justification**  
**Exhibit P-40, page 1 of 2**

**UNCLASSIFIED**

<b>Exhibit P-5, Weapon System Cost Analysis</b>							Date: February 2000				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b>							P-1 Line Item Nomenclature <b>C-130 Post Prod Support</b>				
Manufacturer's Name/Plant City/State Location							Subline Item				
Weapon System Cost Elements		Ident Code	Total Cost In Millions of Dollars								
			FY 1999			FY 2000			FY 2001		
			Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Avionics	A										
Armament	A										
Software	A										
Other Government Furnished Equipment (GFE)	A										
Engineering Change Orders (ECO)	A										
Nonrecurring Costs	A										
Other Costs	A										
FLYAWAY COST SUBTOTAL	A										
Airframe Peculiar Ground Support Equipment (PGSE)	A										
Engine PGSE	A										
Peculiar Training Equipment	A										
Publications/Technical Data	A										
ECOs	A										
Other	A										
ICS	A									1.365	
SUPPORT COST SUBTOTAL	A									1.365	
TOTAL PROGRAM											
<b>Comments</b>											
P-1 Shopping List Item No. 71							Weapon System Cost Analysis Exhibit P-5, page 2 of 2				

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 72</b>								P-1 Line Item Nomenclature <b>E-4 Post Prod Support</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:				N/A		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Total Proc Cost (\$ M)					1.463						1.463

**Description**

The training devices will emulate the cockpit with the new flight safety modifications incorporated. These training devices will allow flight crew and maintenance personnel to maintain skills during periods of limited aircraft availability.

**FY 2001 Program Justification**

Training on the E-4B aircraft is restricted by small fleet size (4 ea) mission requirements and mandatory aircraft maintenance. Training devices are required to augment flight and maintenance training.





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<b>Exhibit P-5A, Procurement History and Planning</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 72</b>	P-1 Line Item Nomenclature <b>E-4 Post Prod Support</b>

<u><b>Weapon System</b></u>	Subline Item
E-4B	

WBS Cost Elements	Qty	Unit Cost	Location of PCO	RFP Issue Date	Contract Method	Contract Type	Contractor and Location	Award Date	Date of First Delivery	Specs Available Now?	Date Revisions Available?
Aircrew Training Device	1	1.463	Offutt AFB, NE	Dec-00	MIPR	PO	Luke AFB, AZ	Jan-01	Oct-01	No	Aug-00

**Remarks**

Training simulator will be built by Det 1, 1ACC TRSS, Luke AFB, AZ on a project work order.

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<b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 72</b>	P-1 Line Item Nomenclature <b>E-4 Post Prod Support</b>
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**Weapon System E-4B**

**Equipment Nomenclature: Unit Training Device (UTD)**

Fin Plan	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total
Proc			1.463					1.463

**TRAINING SYSTEM DESCRIPTION**

Training on the E-4B aircraft (4 ea) is restricted by mission requirements and mandatory aircraft maintenance. Training devices are required to augment flight and maintenance training. These training devices will allow flight crew and maintenance personnel to maintain skills during periods of limited aircraft availability.

P-1 Shopping List Item No. 72	<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.1, page 4 of 6
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<b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 72</b>	P-1 Line Item Nomenclature <b>E-4 Post Prod Support</b>
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**Weapon System E-4B**

**Equipment Nomenclature: Unit Training Device (UTD)**

<b>IOC Date</b>										
TRAINING DEVICE BY TYPE	SITE	DELIVERY TIME	READY TRAINING DATE	AVG STUDENT THROUGH PUT	FY 1999		FY 2000		FY 2001	
					QTY	COST	QTY	COST	QTY	COST
AIRCREW	Offutt AFB, NE	Sep-01	Oct-01	60					1	1.463
<u>TOTAL</u>									1	1.463

P-1 Shopping List Item No. 72	<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.2, page 5 of 6
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**UNCLASSIFIED**

<b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b>							Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 72</b>							P-1 Line Item Nomenclature <b>E-4 Post Prod Support</b>			
<b>Weapon System E-4B</b>										
<b>Equipment Nomenclature: Aircrew Trainers</b>										
<u><b>Description:</b></u>										
FINANCIAL PLAN	FY 1999		FY 2000		FY 2001		To Complete		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
<b>Hardware Costs</b>										
					1	0.975			1	0.975
<b>Total Hardware Costs</b>					1	0.975			1	0.975
<b>Support Costs</b>										
						0.488				0.488
<b>Total Support Costs</b>						0.488				0.488
<b>TOTAL COSTS</b>										
					1	1.463			1	1.463

P-1 Shopping List Item No. 72

**Simulator and Training Device Justification (\$ M)**

Exhibit P-43 p.3, page 6 of 6

**UNCLASSIFIED**

<b>Exhibit P-40, Budget Item Justification</b>						Date: February 2000					
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 73</b>						P-1 Line Item Nomenclature <b>F-15 Post Prod Support</b>					
Program Element for Code B Items:		27134			Other Related Program Elements:						
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Total Proc Cost (\$ M)		20.714	6.871	7.184	7.267	7.349	7.561	7.787	7.959		72.692

**Description**

F-15 POST PRODUCTION/PLANT SHUTDOWN - The F-15 is the air superiority fighter with multi-role air-to-air and air-to-ground capabilities, day or night, all weather weapon system for continental air defense.

**FY 2001 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 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 proper disposal of production assets at the contractor's facility.

P-1 Shopping List Item No. 73

**Budget Item Justification  
Exhibit P-40, page 1 of 2**



**UNCLASSIFIED**

<b>Exhibit P-40, Budget Item Justification</b>								Date: February 2000			
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 74</b>								P-1 Line Item Nomenclature <b>F-16 Post Prod Support</b>			
Program Element for Code B Items:		N/A			Other Related Program Elements:				F-16 Post Production Support		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A	0								0	0
Total Proc Cost (\$ M)			36.634	43.932	25.464	15.500	15.705	13.861	14.340		165.436

**Description**

The F-16 Multimission Fighter is a single seat, fixed wing, high performance, single engine fighter aircraft. The design, optimized for the 0.8 Mach speed range, incorporated advanced technology features to enhance its capability while maximizing 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.

**FY 2001 Program Justification**

Items listed on the P-5 are representative of items to be procured. Items procured during execution may change based on the most urgent needs to support the warfighter.

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<b>Exhibit P-5, Weapon System Cost Analysis</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 74</b>	P-1 Line Item Nomenclature <b>F-16 Post Prod Support</b>

Manufacturer's Name/Plant City/State Location Lockheed-Martin Tactical Aircraft Systems/Ft. Worth, TX	Subline Item
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Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars								
		FY 1999			FY 2000			FY 2001		
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost
Avionics	A	0		0.000	0			0		0.000
Armament	A	0		0.000	0		0.000	0		0.000
Software	A	0		0.000	0		0.000	0		0.000
Engineering Change Orders (ECO)	A	0		0.000	0		0.000	0		0.000
<b>FLYAWAY COST SUBTOTAL</b>	A			0.000			0.000			0.000
Airframe Peculiar Ground Support Equipment (PGSE)	A	0		0.000	0		0.000	0		0.000
Engine PGSE	A	0		0.000	0		0.000	0		0.000
Avionics PGSE	A	0		14.924	0		31.075	0		13.299
Peculiar Training Equipment	A	0		6.368	0		0.875	0		0.974
Publications/Technical Data	A	0		5.373	0		0.000	0		0.000
ECOs	A	0		0.044	0		0.041	0		0.000
Other	A	0		1.584	0		4.006	0		4.748
Distributed Mission Trainer/Exercises	A	0		0.000	0		0.869	0		2.287
ICS	A	0		3.225	0		1.600	0		2.400
ICSE	A	0		5.116	0		5.466	0		1.756
<b>SUPPORT COST SUBTOTAL</b>	A			36.634			43.932			25.464
<b>TOTAL PROGRAM</b>				36.634			43.932			25.464

**Comments**

FY00 has a Congressional Plus-up of \$15M for IAIS.

FY00-FY05 has Distributed Mission Trainer/Exercises added under PE 27697. This is for AF concept demonstration, not F-16 specific.

Starting in FY00 the Publications/Technical Data is funded by 3400.



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<b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 74</b>	P-1 Line Item Nomenclature <b>F-16 Post Prod Support</b>
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**Weapon System F-16**

**Equipment Nomenclature: Unit Training Device (UTD)**

Fin Plan	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total
RDT&E	6.368	0.875	0.974	0.950	1.100	1.125	1.150	12.542

**TRAINING SYSTEM DESCRIPTION**

The Unit Training Device (UTD) is a low-cost, unit level trainer, designed for initial and continuation training in the areas of emergency procedures, LANTIRN, flight instrument training, air-to-air and air-to-ground weapon systems delivery.  
 The Weapons Tactics Trainer (WTT) is included in the UTD numbers.  
 The Maintenance Training Device (MTD) is used to train the maintainers.

P-1 Shopping List Item No. 74	<b>Simulator and Training Device Justification (\$ M)</b>
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	<b>Exhibit P-43 p.1, page 3 of 5</b>
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<b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
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Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 74</b>	P-1 Line Item Nomenclature <b>F-16 Post Prod Support</b>
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**Weapon System F-16**

**Equipment Nomenclature: Unit Training Device (UTD)**

IOC Date										
TRAINING DEVICE BY TYPE	SITE	DELIVERY TIME	READY TRAINING DATE	AVG STUDENT THROUGH PUT	FY 1999		FY 2000		FY 2001	
					QTY	COST	QTY	COST	QTY	COST
MAINTENANCE						0.000		0.000		0.000
AIRCREW					3	6.368		0.875		0.974
<u>TOTAL</u>					3	6.368		0.875		0.974

P-1 Shopping List Item No. 74	<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.2, page 4 of 5
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<b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b>	Date: February 2000
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 74</b>	P-1 Line Item Nomenclature <b>F-16 Post Prod Support</b>

**Weapon System F-16**

**Equipment Nomenclature: Aircrew Trainers**

**Description:**

The Unit Training Device (UTD) is a low-cost, unit level trainer, designed for initial and continuation training in the areas of emergency procedures, LANTIRN, flight instrument training, air-to-air and air-to-ground weapon systems delivery. The Weapons Tactics Trainer (WTT) is included in the UTD numbers.

FINANCIAL PLAN	FY 1999		FY 2000		FY 2001		To Complete		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
<b>Hardware Costs</b>										
	3	2.070		0.000		0.000	TBD	TBD	TBD	TBD
<b>Total Hardware Costs</b>	3	2.070		0.000		0.000	0	0.000	0	0.000
<b>Support Costs</b>										
Software Costs		2.798		0.875		0.974	TBD	TBD	TBD	TBD
		1.500		0.000		0.000	TBD	TBD	TBD	TBD
<b>Total Support Costs</b>		4.298		0.875		0.974	0	0.000	0	0.000
							TBD	TBD	TBD	TBD
<b>TOTAL COSTS</b>	3	6.368		0.875		0.974	0	0.000	0	0.000

P-1 Shopping List Item No. 74	<b>Simulator and Training Device Justification (\$ M)</b> Exhibit P-43 p.3, page 5 of 5
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**FY 01 AMENDED BUDGET REQUEST  
BP 14 – INDUSTRIAL PREPAREDNESS  
FEBRUARY 2000**

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<b>Exhibit P-40, Budget Item Justification</b>						Date: February 2000					
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 75</b>						P-1 Line Item Nomenclature <b>Industrial Preparedness</b>					
Program Element for Code B Items:		N/A			Other Related Program Elements:				N/A		
	ID Code	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Comp	Total
Proc Qty	A										
Total Proc Cost (\$ M)			18.471	24.292	25.352	25.542	25.878	26.654	27.245		173.434

**Description**

1. Air Force Industrial Preparedness combines resources of several appropriations to create a comprehensive program. The goal is to ensure the defense industry can supply reliable, affordable systems to operational commanders. Key program elements include management of government-owned industrial plants, the Defense Production Act, and industrial base (IB) activities. IB activities characterize the critical sectors and industries within the IB and provide information on capability issues for consideration during budget allocation, weapon acquisition, and logistics support decisions.

2. Two basic activities are funded in this appropriation: Industrial Facilities and Industrial Planning:

Industrial Facility cost elements MPCs 3000, 4000, and 7000: Provide for repair and expansion, major rehabilitation, environmental compliance, equipment movement and energy conservation at Air Force-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 F-22.

Industrial Planning cost element MPC 6000: Provides for identification, analysis, and limited pilots and/or pathfinders for problems, constraints, and essential and endangered capabilities in the IB sectors (aircraft). Collection and maintenance of industrial data supports affordable acquisition and sustainability requirements.

**FY 2001 Program Justification**

N/A, program is ongoing.

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Exhibit P-5, Weapon System Cost Analysis						Date: February 2000					
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number						P-1 Line Item Nomenclature					
Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 75						Industrial Preparedness					
Manufacturer's Name/Plant City/State Location						Subline Item					
Weapon System Cost Elements	Ident Code	Total Cost In Millions of Dollars									
		FY 1999			FY 2000			FY 2001			
		Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	Qty	Unit Cost	Total Cost	
Avionics	A										
Armament	A										
Software	A										
Other Government Furnished Equipment (GFE)	A										
Engineering Change Orders (ECO)	A										
Nonrecurring Costs	A										
Other Costs	A										
FLYAWAY COST SUBTOTAL	A										
Airframe Peculiar Ground Support Equipment (PGSE)	A										
Engine PGSE	A										
Peculiar Training Equipment	A										
Publications/Technical Data	A										
ECOs	A										
Other	A										
SUPPORT COST SUBTOTAL	A										
Capital Type Rehabilitation (MPC 3000)	A			5.610			7.796			7.753	
Replacement & Modernization (MPC 4000)	A			0.463			0.446			0.000	
Industrial Base Assessment (MPC 6000)	A			2.951			3.643			4.540	
Environmental Compliance (MPC 7000)	A			9.448			12.407			13.059	
<b>TOTAL PROGRAM</b>				<b>18.472</b>			<b>24.292</b>			<b>25.352</b>	
<b>Comments</b>											
P-1 Shopping List Item No. 75						Weapon System Cost Analysis					
						Exhibit P-5, page 2 of 2					

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**FY 01 AMENDED BUDGET REQUEST**

**BP 17 – WAR CONSUMABLES**

**FEBRUARY 2000**

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/WAR CONSUMABLES				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000				
		<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>
<b>QUANTITY</b>								
<b>COST (in Thousands)</b>		\$74,563	\$112,272	\$43,015	\$58,582	\$97,751	\$114,995	\$117,542
<p><b>Description:</b></p> <ol style="list-style-type: none"> <li>1. This program provides funding for the procurement of initial/replacement War Consumables, and includes commodities such as aircraft Tanks, Racks, Adapters, Pylons (TRAP), Missile Rail Launchers, Radio Frequency (RF) (expendable) Towed Decoys, and Fiber Optic Towed Decoys (FOTD). These items support War Reserve Materiel (WRM) requirements and fleet inventory objectives across multiple weapon systems.</li> <li>2. Funding for the Advanced Airborne Expendable Decoy (AAED) in FY99 includes \$40 million provided by Congress in the FY99 Appropriation Conference Report 106-143 , Emergency Supplemental Appropriations Bill, dated May 14, 1999.</li> <li>3. Funding for the AAED in FY00 was added through the FY99 Emergency Supplemental Appropriations and transferred to the Air Force from the Overseas Contingency Operations Transfer Fund.</li> <li>4. Items to be procured with FY99-01 funds are listed on the attached P-40A followed by individual justifications. Items procured during execution may change based on the most critical equipment needed to support Air Force mission requirements.</li> </ol>								
<b>P-1 ITEM NO:</b> 75			<b>PAGE NO:</b> 7- 67			Page 1 of 1		

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/WAR CONSUMABLES				<b>P-1 NOMENCLATURE:</b> ADVANCED AIRBORNE EXPENDABLE DECOY (AAED)				
		<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>
<b>QUANTITY</b>		2,455	5,132	1,512	1,464	2,533	3,233	2,046
<b>COST (in Thousands)</b>		\$65,564	\$103,870	\$32,264	\$32,876	\$53,978	\$69,896	\$44,235
<p><b>Description:</b></p> <ol style="list-style-type: none"> <li>1. Funding for the Advanced Airborne Expendable Decoy (AAED) in FY99 includes \$40 million provided by Congress in the FY99 Appropriation Conference Report 106-143 , Emergency Supplemental Appropriations Bill, dated May 14, 1999.</li> <li>2. Funding for the AAED in FY00 was added through the FY99 Emergency Supplemental Appropriations and transferred to the Air Force from the Overseas Contingency Operations Transfer Fund.</li> <li>3. The Advanced Airborne Expendable Decoy (AAED) is part of the ALE-50 Radio Frequency (RF) Towed Decoy System integrated onto both the F-16 and B-1B aircraft. The ALE-50 significantly enhances an aircraft's countermeasure capabilities against modern RF missile threats. It provides protection by acting as a RF repeater that decoys threat systems engaging the aircraft resulting in increased missile miss distances. 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 B1-B are the AAED, magazine, launcher, multi-platform launch controller and farings. AAED production buys began in FY97 and the decoy saw extensive use during Operation Noble Anvil (ONA).</li> <li>4. Failure to procure the AAED impacts sustainment of projected wartime sortie rates, impeding mission accomplishment. Air Combat Command (ACC) Operational Requirements Document (ORD) dated 16 May 94 states the need for improved F-16 survivability from RF threats. The ALE-50 succinctly answers this need, as illustrated during ONA, where the ALE-50 dramatically improved weapon system survivability against RF missiles. ACC analyzed ONA results and requested the ALE-50 be placed on all combat coded block 40/50 F-16's as</li> </ol>								
			<b>P-1 ITEM NO:</b> 75			<b>PAGE NO:</b> 7 - 69	Page 1 of 2	

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>			<b>DATE: FEBRUARY 2000</b>	
<b>APPROP CODE/BA:</b> APAF/WAR CONSUMABLES		<b>P-1 NOMENCLATURE:</b> ADVANCED AIRBORNE EXPENDABLE DECOY (AAED)		
<b>Description (cont.):</b> soon as possible.  5. The AAEDs currently programmed address only F-16 requirements. The AAED provides only an interim capability on the B1-B until the Integrated Defensive Electronic Countermeasures (IDECM) Fiber Optic Towed Decoy (FOTD) system enters production in FY02. No additional AAEDs will be procured to support this interim B1-B capability. Therefore, any reductions in the quantity of decoys being procured will impact both F-16 and B1-B deployability.				
	<b>P-1 ITEM NO:</b> 75		<b>PAGE NO:</b> 7 - 70	Page 2 of 2

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WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)										DATE: FEBRUARY 2000			
APPROP CODE/BA: APAF/WAR CONSUMABLES					P-1 NOMENCLATURE: ADVANCED AIRBORNE EXPENDABLE DECOY (AAED)								
WEAPON SYSTEM COST ELEMENTS	IDENT CODE				FY1999			FY2000			FY2001		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
DECOY (1) (3)	A				1,142	21,217	24,230	5,132	20,117	103,240	1,512	21,055	31,835
DECOY (2)	A				1,313	21,576	28,329			0			0
CONTAINERS (2) (4)	A				103	1,842	190	214	1,842	394	63	2,029	128
HARDWARE SCHEDULE ACCELERATION (2) (5)							11,218			0			0
ENGINEERING SUPPORT							279			0			0
NON CONUS SHIPPING							451			0			0
ENGINEERING CHANGE ORDER							867			236			301
<b>TOTALS:</b>							65,564			103,870			32,264
<b>REMARKS:</b> (1) Decoy unit cost in FY99 reduced due to elimination of the warranty, FY00 unit cost reduced due to quantity price break. (2) These items in the FY99 Column were funded IAW FY99 Appropriations Conference Report 106-143, Emergency Supplemental Appropriations Bill, dated May 14, 1999. (3) Funding in FY00 was added through the FY99 Emergency Supplemental Appropriations and transferred to the Air Force from the Overseas Contingency Operations Transfer Fund. (4) One container required for every 24 decoys. (5) Cost of tooling and contractor labor needed to ramp-up production capability to 300 per month and accelerate the delivery schedule in support of Operation Noble Anvil (ONA).													
		<b>P-1 ITEM NO:</b> 75				<b>PAGE NO:</b> 7 - 71				Page 1 of 1			

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BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)							DATE: FEBRUARY 2000			
<b>APPROP CODE/BA:</b> APAF/WAR CONSUMABLES				<b>P-1 NOMENCLATURE:</b> ADVANCED AIRBORNE EXPENDABLE DECOY (AAED)						
ITEM / FISCAL YEAR	QTY.	UNIT COST	LOCATION OF PCO	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWD. DATE	DATE FIRST DEL.	SPECS AVAIL NOW	DATE REV. AVAIL	
DECOY/FY 1999	1,142	21,217	AFMC/ASC	OPT/FP	E-SYSTEMS, GOLETA, CA (1)	MAR 99	JUN 99			
DECOY/FY 1999 (2)	1,313	21,576	AFMC/ASC	OPT/FP	E-SYSTEMS, GOLETA, CA (1)	JUL 99	MAY 00			
DECOY/FY 2000 (3)	5,132	20,117	AFMC/ASC	OPT/FP	E-SYSTEMS, GOLETA, CA (1)	DEC 99	AUG 00			
DECOY/FY 2001	1,512	21,055	AFMC/ASC	OPT/FP	E-SYSTEMS, GOLETA, CA (1)	DEC 00	FEB 02	Y		
<b>REMARKS:</b> (1) Option to FY97 sole source contract to E-Systems, Goleta, CA. (2) Funding provided by Congress in the FY99 Appropriations Conference Report 106-143, Emergency Supplemental Appropriations Bill, dated May 14, 1999. (3) Funding added through the FY99 Emergency Supplemental Appropriations and transferred to the Air Force from the Overseas Contingency Operations Transfer Fund.										
		<b>P-1 ITEM NO:</b> 75		<b>PAGE NO:</b> 7 - 72		Page 1 of 1				

# UNCLASSIFIED

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## PRESIDENT'S BUDGET PRODUCTION SCHEDULE (EXHIBIT P- 21)

**DATE:** FEBRUARY 2000

**APPROP CODE/BA:**  
APAF/WAR CONSUMABLES

**P-1 NOMENCLATURE:**  
ADVANCED AIRBORNE EXPENDABLE DECOY (AAED)

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	CALENDAR 1999												CALENDAR 2000												Later
					FY1999												FY2000												
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
AAED																													
FY 1999 (1)	AF	2695		2695																									
FY 2000	AF	5132		5132																									
FY 2001	AF	1512		1512																									
FY 1999	N	410		410																									
FY 2000	N	196		196																									
FY 2001	N	45		45																									
<b>TOTALS</b>		<b>9990</b>		<b>9990</b>																									

ITEM/MANUFACTURER/ PROCUREMENT YEAR	SERV.	PROC. QTY.	ACCEP. PRIOR TO 1 OCT.	BAL DUE AS OF 1 OCT.	CALENDAR 2001												CALENDAR 2002												Later
					FY2001												FY2002												
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
AAED																													
FY 1999 (1)	AF	2695	2184	511	190	145	95	81																					
FY 2000	AF	5132	200	4932	96	155	105	219	278	279	279	279	279	279	281	271	300	300	229	264	264	264	232						
FY 2001	AF	1512	0	1512																									
FY 1999	N	410	410	0																									
FY 2000	N	196	0	196																									
FY 2001	N	45	0	45																									
<b>TOTALS</b>		<b>9990</b>	<b>2794</b>	<b>7196</b>	<b>286</b>	<b>300</b>	<b>200</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>229</b>	<b>271</b>	<b>300</b>	<b>300</b>	<b>300</b>	<b>185</b>	<b>185</b>	<b>185</b>	<b>185</b>	<b>670</b>	

MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES			PROCUREMENT LEAD TIME					
	MIN SUST	1-8-5	MAX	ADMIN LEAD TIME		MANUFACT.	TOTAL		
E-SYSTEMS, GOLETA, CA	60		300	PRIOR TO 1 OCT		AFTER 1 OCT	PLT	1 OCT	
				INITIAL		0		0	
				REORDER		0	2	14	16

**REMARKS:**  
(1) Additional 240 decoys are included in FY99 deliveries due to payback from the Navy and acceleration actions in support of Operation Noble Anvil.

# UNCLASSIFIED

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE: FEBRUARY 2000</b>		
<b>APPROP CODE/BA:</b> APAF/WAR CONSUMABLES				<b>P-1 NOMENCLATURE:</b> ITEMS LESS THAN \$5,000,000				
		<b>FY1999</b>	<b>FY2000</b>	<b>FY2001</b>	<b>FY2002</b>	<b>FY2003</b>	<b>FY2004</b>	<b>FY2005</b>
<b>QUANTITY</b>								
<b>COST (in Thousands)</b>		\$8,999	\$8,402	\$10,751	\$25,706	\$25,934	\$19,981	\$20,423
<p><b>Description:</b></p> <p>1. The "Items Less than \$5 Million" line includes commodities such as launchers, tank storage/shipping containers, pylon nuclear upgrade kits, fuel tanks and fuel tank upgrade kits. These items are applicable across multiple weapon systems. These initial/replacement War Consumables requirements ensure continuation of serviceable, supportable equipment over the life of a weapon system.</p> <p>2. All items have an annual procurement value of less than \$5 million and are code A. Items requested in FY01 are identified on the following P-40A and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support Air Force mission requirements.</p>								
<b>P-1 ITEM NO:</b> 75			<b>PAGE NO:</b> 7 - 74			Page 1 of 1		

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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)				DATE: FEBRUARY 2000	
APPROP CODE/BA: APAF/WAR CONSUMABLES		P-1 NOMENCLATURE: ITEMS LESS THAN \$5,000,000			
PROCUREMENT ITEMS	NSN			FY2001	
		QTY.	COST	QTY.	COST
LAU-128A/A LAUNCHER				135	\$2,286
600 GAL FUEL TANK SLOTTED ANGLE STORAGE/SHIPPING CONTAINERS (F-15)				547	\$681
LAU-118A(V)4/A WITH AIRCRAFT LAUNCHER INTERFACE COMPUTER				16	\$1,242
LAU-88A/A TRIPLE RAIL LAUNCHERS				659	\$2,300
SUU-59C/A PYLONS (NUCLEAR UPGRADE)				43	\$1,335
600 GAL FUEL TANK (F-16)				9	\$951
650 GAL CRASHWORTHY FUEL TANK ASSEMBLY (MH-53)				9	\$195
370 GAL NESTED TANK RELAY KIT (F-16)				7834	\$1,371
300 GAL CENTER LINE TANK FLOAT SWITCH KIT (F-16)				487	\$390
<b>TOTALS:</b>					<b>\$10,751</b>
		P-1 ITEM NO: 75	PAGE NO: 7 - 75		Page 1 of 1

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**FY 01 AMENDED BUDGET REQUEST  
BP 19 – OTHER PRODUCTION CHARGES  
FEBRUARY 2000**

**UNCLASSIFIED**

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET							DATE	
							Jan-2000	
APPROPRIATION/BUDGET ACTIVITY				ITEM NO. 77	P-1 NOMENCLATURE			
AIRCRAFT PROCUREMENT, AF/ BA 07 AIRCRAFT SUPPORT EQ & FACILITIES					MISCELLANEOUS PRODUCTION CHARGES			
		FY99	FY00	FY01	FY02	FY03	FY04	FY05
QUANTITY								
COST (in thousands)		249,662	370,815	398,474	377,822	319,806	334,013	358,089
<p>These programs provide for items which (1) are not directly related to other procurement line items in this appropriation, (2) cannot be reasonably allocated and charged to other procurement line items in this appropriation, (3) can be managed as separate end items, and (4) contain certain classified programs.</p>								

P-1 Shopping List

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Exhibit P-40a, Budget Item Justification for Aggregated Items						Date: February 2000
Appropriation/Budget Activity						
Procurement Items	FY1999	FY2000	FY2001			
	(\$000)	(\$000)	(\$000)			
C-130J	0	859	0			
C-5 Airlift Squadrons	1,363	1,337	1,370			
Classified/Intelligence Programs	80,505	132,735	172,218			
Combat Training Range Equipment	413	16,847	18,108			
Elec Warfare Integrated Program	5,660	1,871	0			
F-22	2,866	5,949	7,455			
Flight Screening	0	0	101			
Jugement Fund Reimbursement	0	25,000	25,000			
KC-135S	1,447	1,407	1,375			
Manned Destructive Suppression	9,955	0	13,653			
NATO AWACS Program	110,296	70,465	82,038			
NAVSTAR Global Positioning System User Equipment	35,295	35,320	39,290			
Pollution Prevention	1,862	3,034	2,945			
Precision Attack Systems	0	75,991	34,921			
TOTAL	249,662	370,815	398,474			

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# UNCLASSIFIED

DATE: February 2000

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**FY 2001 PRESIDENT'S BUDGET SUBMISSION1**  
**MISCELLANEOUS PRODUCTION CHARGES FACT SHEET**  
**(Dollars in Thousands)**

PROJECT TITLE: C-130J Program

MODELS OF AIRCRAFT APPLICABLE: C-130J

DESCRIPTION/JUSTIFICATION: This logistics and training money was mistakenly submitted as BP19. SAF/FM has already corrected the FY01-05 figures. Will reprogram the FY00 money to BP10, once the funds are appropriated.

PROJECTED FINANCIAL PLAN:

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:			
	0	859	0
TOTAL COST	0	859	0

**UNCLASSIFIED**

DATE: Feb 00

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**FY 2001 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 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.

PROJECTED FINANCIAL PLAN:

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:			
	1,363	1,337	1,370
TOTAL COST	1,363	1,337	1,370



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DATE: Feb 00

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**FY 2001 PRESIDENT'S BUDGET SUBMISSION  
MISCELLANEOUS PRODUCTION CHARGES  
(Dollars in Thousands)**

PROJECT TITLE: Classified/Intelligence Programs

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

PROJECTED FINANCIAL PLAN:

BASIS FOR COST ESTIMATE	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
Classified Programs	71,526	95,226	133,213
Intelligence Programs	8,979	37,509	39,005
TOTAL COST	80,505	132,735	172,218

**UNCLASSIFIED**

DATE: Feb 00

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**FY 2001 PRESIDENT'S BUDGET ESTIMATES  
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 to conduct operational testing of weapons systems and tactics under simulated combat conditions. ACTS provide the capability to conduct air-to-air, air-to-surface, and electronic warfare combat, while providing real-time monitoring and control of aircraft and recording events for post-mission debrief and analysis. The Air Force/Navy Joint Tactical Combat Training System (JTCTS) program is being developed as the next ACTS. In FY99, Congress directed a technical evaluation of JTCTS and the integrated Large Area Tracking Range/ Kadena Interim Training System (LATR/KITS) systems. This technical evaluation was completed and the results were reported to Congress in the 1st quarter of FY00. JTCTS was determined to be the system of choice. JTCTS will use the Global Positioning System (GPS) to improve position accuracy. JTCTS will provide the capability to simultaneously monitor an increased number of aircraft over a larger geographic area. JTCTS will be able to operate in a 'rangeless mode' without the necessity of a ground based infrastructure or operate in a "terrestrial mode" tethered to a ground monitoring and control system. Funding will also be used to upgrade selected legacy systems to a more state of the art functional configuration. These upgrades will allow existing assets to continue to meet ACTS operational requirements until JTCTS is fielded.

PROJECTED FINANCIAL PLAN

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:			
ACTS Pods	413	16,847	18,108
TOTAL COST	413	16,847	18,108

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DATE: Feb 00

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## FY 2001 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. Re-evaluation of required funds to support future EWAISF efforts deemed 3400 O&M funds more appropriate. Effective in FY01, O&M funds will support EWAISF instead of 3010 BP 1900.

PROJECTED FINANCIAL PLAN:

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:			
	5,660	1,871	0
TOTAL COST	5,660	1,871	0

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DATE: Feb 00

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**FY 2001 PRESIDENT'S BUDGET SUBMISSION  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Thousands)**

PROJECT TITLE: F-22

MODELS OF AIRCRAFT APPLICABLE: F-22

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

PROJECTED FINANCIAL PLAN:

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:			
Assessment of Contractor Data	2,866	5,949	7,455
TOTAL COST	2,866	5,949	7,455

# UNCLASSIFIED

DATE: Feb 00

P-1900

**FY 2001 PRESIDENT'S BUDGET SUBMISSION  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Thousands)**

PROJECT TITLE: Flight Screening

MODELS OF AIRCRAFT APPLICABLE: Blanik L-13-AC and L-33 Solo Gliders

DESCRIPTION/JUSTIFICATION: Near-term replacement of the TG-3/-4/-7 glider fleet is essential. Cadet airmanship programs cannot be supported with the current fleet of aircraft. Down time for repair and rebuild, coupled with fatigue failure concerns further limit the utility of existing aircraft. With annual rebuild costs exceeding 60-70% of the total value of new trainer sailplanes, the TG-3/-4/-7 fleet is no longer supportable.

PROJECTED FINANCIAL PLAN:

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:			
	0	0	101
TOTAL COST	0	0	101

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DATE: Feb 00

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**FY 2001 PRESIDENT'S BUDGET SUBMISSION  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Thousands)**

PROJECT TITLE: Judgement 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 judgement fund, which the Air Force is required by law to reimburse. The funds requested in FY00 and FY01 represent the first two installments of the total requirement of \$119.5M in the aircraft procurement program.

PROJECTED FINANCIAL PLAN:

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:			
PROGRAM COST	0	25,000	25,000
TOTAL COST	0	25,000	25,000

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DATE: Feb 00

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**FY 2001 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: Airborne Broadcast Intelligence (ABI) equips the aircraft with portable, on-aircraft mission equipment to receive and display critical, real-time intelligence information. It provides increased threat situational awareness thus enabling aircrews to make mission modifications to avoid enemy threats under rapidly changing combat conditions.

PROJECTED FINANCIAL PLAN:

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:	1,447	1,407	1,375
TOTAL COST	1,447	1,407	1,375

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DATE: Feb 00

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**FY 2001 PRESIDENT'S BUDGET SUBMISSION  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Thousands)**

PROJECT TITLE: Manned Destructive Suppression

MODELS OF AIRCRAFT APPLICABLE: F-16 Block 50/52

DESCRIPTION/JUSTIFICATION: The AN/ASQ-213 pod, a High Speed Anti-Radiation Missile (HARM) Targeting System (HTS), senses enemy radar emissions and provides precision targeting information for the F-16 Block 50/52. The F-16 HTS provides the only USAF HARM suppression capability since the retirement of the F-4G Wild Weasel in FY96. The FY99 funding procured new HTS R6 Pods and FY01 funds will be used to procure as many HTS R6 Pods and Pylons as possible.

PROJECTED FINANCIAL PLAN:

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
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BASIS FOR COST ESTIMATE:

	9,955	0	13,653
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TOTAL COST

	9,955	0	13,653
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# UNCLASSIFIED

DATE: Feb 00

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**FY 2001 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 and Mid-Term Modernization Programs. The Near-Term upgrades include the anti-jam radio (Have Quick A-Nets), JTIDS TADIL J Data Link, improved COMSEC equipment and the Radar System Improvement Program (RSIP). The Mid-Term program upgrades the mission computers, provides improved man-machine interfaces, multi-sensor integration (MSI), digital communications, satellitecommunications, and adds 5 new consoles to the aircraft. These Near and Mid-Term projects will update the NATO E-3's with capabilities to maintain fleet operational effectiveness and interoperability well into the 21st century.

PROJECTED FINANCIAL PLAN:

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:			
NATO AWACS - Near/Mid Term	110,296	70,465	82,038
TOTAL COST	110,296	70,465	82,038

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DATE: Feb 00

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**FY 2001 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: OA/A-10, B-1B, B-2, B-52H, C-12, C-130, C/KC-135, C-17, C-141B, C-20, C-9, C-5 A/B, C-21A, EC-18B, E-3, E-4B, E-9, F-117A, F-15E, F-16 C/D, KC-10, T-1, CT/T-43, UH-1N

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 modifications.

PROJECTED FINANCIAL PLAN:

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:			
Non-recurring/Integration	35,295	35,320	39,290
TOTAL COST	35,295	35,320	39,290

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DATE: Feb 00

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## FY 2001 PRESIDENT'S BUDGET SUBMISSION MISCELLANEOUS PRODUCTION CHARGES FACT SHEET (Dollars in Thousands)

PROJECT TITLE: Pollution Prevention

MODELS OF AIRCRAFT APPLICABLE: N/A

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

### PROJECTED FINANCIAL PLAN:

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:			
PROGRAM COST	1,862	3,034	2,945
TOTAL COST	1,862	3,034	2,945

# UNCLASSIFIED

DATE: Feb 00

P-1900

**FY 2001 PRESIDENT'S BUDGET SUBMISSION  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Thousands)**

PROJECT TITLE: Precision Attack Systems Procurement

MODELS OF AIRCRAFT APPLICABLE: F-16C/D

DESCRIPTION/JUSTIFICATION: Funds used to procure Precision Attack Targeting pods. Funds in FY00 will procure Litening targeting pods for the Air Reserve Components. Funds in FY01 will procure Advanced Targeting Pods (ATP) for active duty USAF F-16C/D Block 50/52. The procurement schedule for ATP's is 24 per year. Current funding will allow for a total purchase of 72 pods.

PROJECTED FINANCIAL PLAN:

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:			
	0	75,991	34,921
TOTAL COST	0	75,991	34,921

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET							DATE	
							Feb-2000	
APPROPRIATION/BUDGET ACTIVITY      ITEM NO. 78				P-1 NOMENCLATURE				
AIRCRAFT PROCUREMENT, AF/ BA 07 AIRCRAFT SUPPORT EQ & FACILITIES				COMMON ELEC COUNTERMEASURES EQUIPMENT				
		FY99	FY00	FY01	FY02	FY03	FY04	FY05
QUANTITY								
COST (in thousands)		11,701	11,663	4,836	5,009	5,148	5,302	5,419
<p>These programs provide for electronic countermeasures and related support equipment which (1) is not directly related to other procurement line items in this appropriation, (2) cannot be reasonably allocated and charged to other procurement line items in this appropriation, and (3) can be managed as separate end items.</p>								

P-1 Shopping List

# UNCLASSIFIED

DATE: Feb 00

P-1900

**FY 2001 PRESIDENT'S BUDGET SUBMISSION  
COMMON ELECELECTRONICS COUNTERMEASURES FACT SHEET  
(Dollars in Thousands)**

PROJECT TITLE: ALQ-184/ALQ-131

: DESCRIPTION/JUSTIFICATION: This project supports the acquisition of kits to modify ALQ-184 to a reprogrammable low-band ALQ 184 and ALQ-131 Block II pod configurations to counter terminal and airborne interceptor radar systems. The FY99 thru 01 funding provides for software upgrades, ECPs, program support, and product improvement. FY99 dollars reflect a \$5M congressional plus-up. ALQ-184 and ALQ-131 electronic attack pods are the primary self defense jamming systems for the A-10, F-16, and USAFE C-130 aircraft. Effective in FY00 these funds were moved from PE27442 and reside in the EWIR PE27439.

PROJECTED FINANCIAL PLAN:

BASIS FOR COST ESTIMATE:

	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
ALQ-184/ALQ-131	11,701	11,663	4,836
TOTAL COST	11,701	11,663	4,836

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET							DATE	
							Feb-2000	
APPROPRIATION/BUDGET ACTIVITY				ITEM NO. 80	P-1 NOMENCLATURE			
AIRCRAFT PROCUREMENT, AF/ BA 07 AIRCRAFT SUPPORT EQ & FACILITIES					MANNED RECONNAISSANCE SYSTEMS (DARP)			
		FY99	FY00	FY01	FY02	FY03	FY04	FY05
QUANTITY								
COST (in thousands)		139,975	127,971	98,410	114,283	105,745	92,624	92,570
<p>This program provides centralized funding for multi-service and Air Force requirements for field future airborne reconnaissance systems.</p>								

P-1 Shopping List

# UNCLASSIFIED

DATE: Feb 00

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**FY 2001 PRESIDENT'S BUDGET ESTIMATES**  
**MICELLANEOUS PRODUCTION CHARGES FACT SHEET**  
**(Dollars in Thousands)**

PROJECT TITLE: Manned Reconnaissance System (DARP)

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

PROJECTED FINANCIAL PLAN:	<u>FY 99</u>	<u>FY 00</u>	<u>FY01</u>
BASIS FOR COST ESTIMATE:			
PROGRAM COST	139,975	127,971	98,410
TOTAL COST			