

# **UNITED STATES AIR FORCE**

## **Committee Staff Procurement Backup Book**

**FY 2003 Budget Estimates**



**February 2002**

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**AIRCRAFT PROCUREMENT, AIR FORCE  
VOLUME I**

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OPR: SAF/FMB



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AIRCRAFT PROCUREMENT, AIR FORCE (3010)**

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**AIRCRAFT PROCUREMENT  
AIR FORCE**

**For construction, procurement, and modification of aircraft and equipment, including armor and armament, specialized ground handling equipment and training devices, spare parts, and accessories therefor; specialized equipment; expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the forgoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents and transportation of things, \$12,067,405,000, to remain available for obligation until September 30, 2005.**

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FY 2002 BUDGET ESTIMATES

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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 in advance of the fiscal year the end item is authorized

**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 2003 BUDGET ESTIMATES**

**FEBRUARY 2002**

**SECTION 3:**

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

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DEPARTMENT OF THE AIR FORCE

FY 2003 PROCUREMENT PROGRAM

SUMMARY  
(\$ IN MILLIONS)

29 JAN 2002

APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

| ACTIVITY<br>-----                             | FY 2001<br>----- | FY 2002<br>----- | FY 2003<br>----- |
|---|------------------|------------------|------------------|
| 01. COMBAT AIRCRAFT                           | 3,003.9          | 3,037.3          | 4,621.1          |
| 02. AIRLIFT AIRCRAFT                          | 3,168.3          | 3,812.1          | 3,893.1          |
| 03. TRAINER AIRCRAFT                          | 134.0            | 223.9            | 211.8            |
| 04. OTHER AIRCRAFT                            | 549.2            | 584.8            | 541.4            |
| 05. MODIFICATION OF INSERVICE AIRCRAFT        | 1,978.5          | 1,767.4          | 1,776.6          |
| 06. AIRCRAFT SPARES AND REPAIR PARTS          | 344.0            | 295.1            | 276.0            |
| 07. AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES | 742.5            | 772.9            | 747.4            |
| TOTAL AIRCRAFT PROCUREMENT, AIR FORCE         | 9,920.3          | 10,493.6         | 12,067.4         |

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DEPARTMENT OF THE AIR FORCE  
FY 2003 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 29 JAN 2002

|                                     |                                | MILLIONS OF DOLLARS |          |           |          |            |               |   |
|-------------------------------------|--------------------------------|---------------------|----------|-----------|----------|------------|---------------|---|
| LINE                                |                                | IDENT               | FY 2001  |           | FY 2002  |            | FY 2003       | S |
| NO                                  | ITEM NOMENCLATURE              | CODE                | QUANTITY | COST      | QUANTITY | COST       | QUANTITY COST | E |
| ----                                | -----                          | -----               | -----    | -----     | -----    | -----      | -----         | C |
| BUDGET ACTIVITY 01: COMBAT AIRCRAFT |                                |                     |          |           |          |            |               |   |
| -----                               |                                |                     |          |           |          |            |               |   |
| TACTICAL FORCES                     |                                |                     |          |           |          |            |               |   |
| 1                                   | F-22 RAPTOR                    | A                   | 10       | (1,744.5) | 13       | (3,842.9)  | 23 (4,362.2)  | U |
|                                     | LESS: ADVANCE PROCUREMENT (PY) |                     |          | (-278.8)  |          | (-1,073.4) | (-271.7)      | U |
|                                     |                                |                     |          | -----     |          | -----      | -----         |   |
|                                     |                                |                     |          | 1,465.8   |          | 2,769.6    | 4,090.4       |   |
| 2                                   | F-22 RAPTOR                    |                     |          |           |          |            |               |   |
|                                     | ADVANCE PROCUREMENT (CY)       |                     |          | 1,070.7   |          | 267.8      | 530.6         | U |
|                                     | (FY 2001 FOR FY 2002) (MEMO)   |                     |          | (1,070.7) |          |            |               |   |
|                                     | (FY 2002 FOR FY 2003) (MEMO)   |                     |          |           |          | (267.8)    |               |   |
|                                     | (FY 2003 FOR FY 2004) (MEMO)   |                     |          |           |          |            | (530.6)       |   |
| 3                                   | F-15A                          | A                   | 5        | (380.7)   |          |            |               | U |
|                                     | LESS: ADVANCE PROCUREMENT (PY) |                     |          | (-24.6)   |          |            |               | U |
|                                     |                                |                     |          | -----     |          | -----      | -----         |   |
|                                     |                                |                     |          | 356.2     |          |            |               |   |
| 4                                   | F-16A (MYP)                    | A                   | 4        | (135.3)   |          |            |               | U |
|                                     | LESS: ADVANCE PROCUREMENT (PY) |                     |          | (-24.1)   |          |            |               | U |
|                                     |                                |                     |          | -----     |          | -----      | -----         |   |
|                                     |                                |                     |          | 111.2     |          |            |               |   |
| TOTAL COMBAT AIRCRAFT               |                                |                     |          | 3,003.9   |          | 3,037.3    | 4,621.1       |   |

DEPARTMENT OF THE AIR FORCE  
FY 2003 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 29 JAN 2002

## MILLIONS OF DOLLARS

| LINE<br>NO                           | ITEM NOMENCLATURE              | IDENT<br>CODE | FY 2001  |           | FY 2002  |           | FY 2003  |           | S<br>E<br>C |
|--------------------------------------|--------------------------------|---------------|----------|-----------|----------|-----------|----------|-----------|-------------|
|                                      |                                |               | QUANTITY | COST      | QUANTITY | COST      | QUANTITY | COST      |             |
| BUDGET ACTIVITY 02: AIRLIFT AIRCRAFT |                                |               |          |           |          |           |          |           |             |
| TACTICAL AIRLIFT                     |                                |               |          |           |          |           |          |           |             |
| 5                                    | C-17A (MYP)                    | B             | 12       | (2,919.7) | 15       | (3,056.7) | 12       | (3,065.1) | U           |
|                                      | LESS: ADVANCE PROCUREMENT (PY) |               |          | (-303.3)  |          | (-257.2)  |          | (-371.0)  | U           |
|                                      |                                |               |          | 2,616.4   |          | 2,799.5   |          | 2,694.1   |             |
| 6                                    | C-17A (MYP)                    |               |          |           |          |           |          |           |             |
|                                      | ADVANCE PROCUREMENT (CY)       |               |          | 257.2     |          | 371.0     |          | 391.9     | U           |
|                                      | (FY 2001 FOR FY 2002) (MEMO)   |               |          | (257.2)   |          |           |          |           |             |
|                                      | (FY 2002 FOR FY 2003) (MEMO)   |               |          |           |          | (371.0)   |          |           |             |
|                                      | (FY 2003 FOR FY 2004) (MEMO)   |               |          |           |          |           |          | (204.8)   |             |
|                                      | (FY 2003 FOR FY 2005) (MEMO)   |               |          |           |          |           |          | (60.5)    |             |
|                                      | (FY 2003 FOR FY 2006) (MEMO)   |               |          |           |          |           |          | (88.3)    |             |
|                                      | (FY 2003 FOR FY 2007) (MEMO)   |               |          |           |          |           |          | (25.1)    |             |
|                                      | (FY 2003 FOR FY 2008) (MEMO)   |               |          |           |          |           |          | (13.2)    |             |
| 7                                    | C-17 ICS                       | B             |          |           |          | 481.8     |          | 612.5     | U           |
| OTHER AIRLIFT                        |                                |               |          |           |          |           |          |           |             |
| 8                                    | EC-130J                        | A             |          | 89.2      |          |           |          |           | U           |
| 9                                    | C-130H                         | A             |          |           |          |           | 18.7     |           | U           |
| 10                                   | C-130J                         | A             | 2        | 205.4     | 2        | 159.9     |          | 175.9     | U           |
| TOTAL AIRLIFT AIRCRAFT               |                                |               |          | 3,168.3   |          | 3,812.1   |          | 3,893.1   |             |
| BUDGET ACTIVITY 03: TRAINER AIRCRAFT |                                |               |          |           |          |           |          |           |             |
| OPERATIONAL TRAINERS                 |                                |               |          |           |          |           |          |           |             |
| 11                                   | JPATS                          | A             | 34       | 134.0     | 40       | 223.9     | 35       | 211.8     | U           |
| TOTAL TRAINER AIRCRAFT               |                                |               |          | 134.0     |          | 223.9     |          | 211.8     |             |

DEPARTMENT OF THE AIR FORCE  
FY 2003 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 29 JAN 2002

| LINE<br>NO                         | ITEM NOMENCLATURE              | IDENT<br>CODE | MILLIONS OF DOLLARS |         |          |         |          |         | S<br>E<br>C |
|------------------------------------|--------------------------------|---------------|---------------------|---------|----------|---------|----------|---------|-------------|
|                                    |                                |               | FY 2001             |         | FY 2002  |         | FY 2003  |         |             |
|                                    |                                |               | QUANTITY            | COST    | QUANTITY | COST    | QUANTITY | COST    |             |
| BUDGET ACTIVITY 04: OTHER AIRCRAFT |                                |               |                     |         |          |         |          |         |             |
| -----                              |                                |               |                     |         |          |         |          |         |             |
| HELICOPTERS                        |                                |               |                     |         |          |         |          |         |             |
| 12                                 | V-22 OSPREY                    | A             |                     | (42.5)  |          | (22.7)  |          | (90.9)  | U           |
|                                    | LESS: ADVANCE PROCUREMENT (PY) |               |                     | (-19.7) |          | (-22.7) |          |         | U           |
|                                    |                                |               |                     | -----   |          | -----   |          | -----   |             |
|                                    |                                |               |                     | 22.8    |          |         |          | 90.9    |             |
| 13                                 | V-22 OSPREY                    |               |                     |         |          |         |          |         |             |
|                                    | ADVANCE PROCUREMENT (CY)       |               |                     | 22.7    |          |         |          | 10.1    | U           |
|                                    | (FY 2001 FOR FY 2002) (MEMO)   |               |                     | (22.7)  |          |         |          |         |             |
|                                    | (FY 2003 FOR FY 2004) (MEMO)   |               |                     |         |          |         |          | (10.1)  |             |
| MISSION SUPPORT AIRCRAFT           |                                |               |                     |         |          |         |          |         |             |
| 14                                 | C-32B FST/DEST AIRCRAFT        | A             |                     |         | 1        | 72.5    |          |         | U           |
| 15                                 | CIVIL AIR PATROL A/C           | A             | 50                  | 6.3     | 27       | 7.4     | 27       | 2.6     | U           |
| 16                                 | OPERATIONAL SUPPORT AIRCRAFT   | A             | 1                   | 69.2    |          |         |          |         | U           |
| OTHER AIRCRAFT                     |                                |               |                     |         |          |         |          |         |             |
| 17                                 | TARGET DRONES                  | A             |                     | 22.9    |          | 34.8    |          | 30.6    | U           |
| 18                                 | C-40 ANG                       | A             | 1                   | 67.5    |          |         |          |         | U           |
| 19                                 | E-8C                           | A             | 1                   | (276.7) | 1        | (315.9) | 1        | (327.3) | U           |
|                                    | LESS: ADVANCE PROCUREMENT (PY) |               |                     | (-36.0) |          | (-46.1) |          | (-48.0) | U           |
|                                    |                                |               |                     | -----   |          | -----   |          | -----   |             |
|                                    |                                |               |                     | 240.7   |          | 269.8   |          | 279.3   |             |
| 20                                 | E-8C                           |               |                     |         |          |         |          |         |             |
|                                    | ADVANCE PROCUREMENT (CY)       |               |                     | 46.1    |          | 48.0    |          |         | U           |
|                                    | (FY 2001 FOR FY 2002) (MEMO)   |               |                     | (46.1)  |          |         |          |         |             |
|                                    | (FY 2002 FOR FY 2003) (MEMO)   |               |                     |         |          | (48.0)  |          |         |             |

DEPARTMENT OF THE AIR FORCE  
FY 2003 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 29 JAN 2002

| LINE<br>NO   | ITEM NOMENCLATURE  | IDENT<br>CODE | MILLIONS OF DOLLARS |                 |                     |                    |                     |                   | S<br>E<br>C |
|--|--|---------------|---------------------|-----------------|---------------------|--------------------|---------------------|-------------------|-------------|
|  |  |               | FY 2001<br>QUANTITY | FY 2001<br>COST | FY 2002<br>QUANTITY | FY 2002<br>COST    | FY 2003<br>QUANTITY | FY 2003<br>COST   |             |
| 21   | HAEUAV<br>LESS: ADVANCE PROCUREMENT (PY)   | A             |                     |                 | 2                   | (104.1)<br>(-21.0) | 2                   | (97.4)<br>(-33.5) | U<br>U      |
|  |  |               |                     |                 |                     | 83.1               | 63.9                |                   |             |
| 22   | HAEUAV<br>ADVANCE PROCUREMENT (CY)<br>(FY 2001 FOR FY 2002) (MEMO)<br>(FY 2002 FOR FY 2003) (MEMO)<br>(FY 2003 FOR FY 2004) (MEMO) |               |                     | 21.0<br>(21.0)  |                     | 33.5<br>(33.5)     | 41.0                | U                 |             |
|  |  |               |                     |                 |                     |                    | (41.0)              |                   |             |
| 23   | PREDATOR UAV   | A             | 7                   | 30.0            | 6                   | 35.8               | 7                   | 23.1              | U           |
| TOTAL OTHER AIRCRAFT                                   |  |               |                     | 549.2           |                     | 584.8              |                     | 541.4             |             |
| BUDGET ACTIVITY 05: MODIFICATION OF INSERVICE AIRCRAFT |  |               |                     |                 |                     |                    |                     |                   |             |
| -----  |  |               |                     |                 |                     |                    |                     |                   |             |
| STRATEGIC AIRCRAFT                                     |  |               |                     |                 |                     |                    |                     |                   |             |
| 24   | B-2A   | A             |                     | 23.6            |                     | 23.5               | 72.1                | U                 |             |
| 25   | B-1B   | A             |                     | 48.3            |                     | 36.8               | 98.0                | U                 |             |
| 26   | B-52   | A             |                     | 42.6            |                     | 17.7               |                     | U                 |             |
| 27   | F-117  | A             |                     | 30.0            |                     | 27.1               | 21.1                | U                 |             |
| TACTICAL AIRCRAFT                                      |  |               |                     |                 |                     |                    |                     |                   |             |
| 28   | A-10   | A             |                     | 38.6            |                     | 20.7               | 21.8                | U                 |             |
| 29   | F-15   | A             |                     | 305.2           |                     | 241.6              | 232.5               | U                 |             |
| 30   | F-16   | A             |                     | 299.8           |                     | 232.4              | 265.0               | U                 |             |
| 31   | F22 RAPTOR   |               |                     |                 |                     |                    | 11.2                | U                 |             |
| 32   | T/AT-37  | A             |                     | .1              |                     | .1                 | .1                  | U                 |             |
| AIRLIFT AIRCRAFT                                       |  |               |                     |                 |                     |                    |                     |                   |             |
| 33   | C-5  | A             |                     | 66.7            |                     | 32.1               | 86.0                | U                 |             |
| 34   | C-9  | A             |                     | 1.7             |                     | .6                 | 1.3                 | U                 |             |

DEPARTMENT OF THE AIR FORCE  
FY 2003 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 29 JAN 2002

| LINE<br>NO       | ITEM NOMENCLATURE | IDENT<br>CODE | MILLIONS OF DOLLARS |                 |          |                 |          |                 | S<br>E<br>C |  |
|------------------|-------------------|---------------|---------------------|-----------------|----------|-----------------|----------|-----------------|-------------|--|
|                  |                   |               | QUANTITY            | FY 2001<br>COST | QUANTITY | FY 2002<br>COST | QUANTITY | FY 2003<br>COST |             |  |
| 35               | C-17A             | A             |                     | 81.3            |          | 110.1           |          | 128.2           | U           |  |
| 36               | C-21              | A             |                     | 1.8             |          | 2.6             |          | 2.6             | U           |  |
| 37               | C-32A             | A             |                     | 15.2            |          | 40.4            |          | 26.7            | U           |  |
| 38               | C-37A             | A             |                     | .4              |          | .4              |          | .4              | U           |  |
| 39               | C-141             | A             |                     | .7              |          | .8              |          | .8              | U           |  |
| TRAINER AIRCRAFT |                   |               |                     |                 |          |                 |          |                 |             |  |
| 40               | T-38              | A             |                     | 119.4           |          | 154.6           |          | 168.1           | U           |  |
| 41               | T-41 AIRCRAFT     | A             |                     | .1              |          | .1              |          | .1              | U           |  |
| 42               | T-43              | A             |                     | 4.9             |          | 3.7             |          | 2.2             | U           |  |
| OTHER AIRCRAFT   |                   |               |                     |                 |          |                 |          |                 |             |  |
| 43               | KC-10A (ATCA)     | A             |                     | 36.4            |          | 30.6            |          | 14.2            | U           |  |
| 44               | C-12              | A             |                     | 1.4             |          | .4              |          | .4              | U           |  |
| 45               | C-18              | A             |                     | .3              |          | .8              |          | .8              | U           |  |
| 46               | C-20 MODS         | A             |                     | 5.2             |          | .6              |          | .8              | U           |  |
| 47               | VC-25A MOD        | A             |                     | 1.4             |          | 13.9            |          | 12.2            | U           |  |
| 48               | C-130             | A             |                     | 90.7            |          | 88.5            |          | 138.5           | U           |  |
| 49               | C-135             | A             |                     | 317.9           |          | 171.6           |          | 108.7           | U           |  |
| 50               | DARP              | A             |                     | 159.5           |          | 180.8           |          | 150.1           | U           |  |
| 51               | E-3               | A             |                     | 117.6           |          | 90.7            |          | 29.5            | U           |  |
| 52               | E-4               | A             |                     | 32.3            |          | 44.6            |          | 39.1            | U           |  |
| 53               | E-8               | A             |                     | 33.9            |          | 66.5            |          | 19.3            | U           |  |
| 54               | H-1               | A             |                     | .6              |          | .3              |          | .5              | U           |  |
| 55               | H-60              | A             |                     | 22.3            |          | 26.0            |          | 40.6            | U           |  |

DEPARTMENT OF THE AIR FORCE  
FY 2003 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 29 JAN 2002

| MILLIONS OF DOLLARS   |                              |            |                  |              |                  |              |                  |              |       |
|---|------------------------------|------------|------------------|--------------|------------------|--------------|------------------|--------------|-------|
| LINE NO   | ITEM NOMENCLATURE            | IDENT CODE | FY 2001 QUANTITY | FY 2001 COST | FY 2002 QUANTITY | FY 2002 COST | FY 2003 QUANTITY | FY 2003 COST | S E C |
| 56  | OTHER AIRCRAFT               | A          |                  | 33.9         |                  | 49.9         |                  | 54.7         | U     |
| 57  | PREDATOR MODS                | A          |                  |              |                  | 15.2         |                  | 10.5         | U     |
| OTHER MODIFICATIONS   |                              |            |                  |              |                  |              |                  |              |       |
| 58  | CLASSIFIED PROJECTS          | A          |                  | 44.7         |                  | 41.6         |                  | 18.5         | U     |
| TOTAL MODIFICATION OF INSERVICE AIRCRAFT                      |                              |            |                  | 1,978.5      |                  | 1,767.4      |                  | 1,776.6      |       |
| BUDGET ACTIVITY 06: AIRCRAFT SPARES AND REPAIR PARTS          |                              |            |                  |              |                  |              |                  |              |       |
| -----   |                              |            |                  |              |                  |              |                  |              |       |
| AIRCRAFT SPARES + REPAIR PARTS                                |                              |            |                  |              |                  |              |                  |              |       |
| 59  | INDUSTRIAL FACILITIES        | A          |                  | 344.0        |                  | 295.1        |                  | 276.0        | U     |
| TOTAL AIRCRAFT SPARES AND REPAIR PARTS                        |                              |            |                  | 344.0        |                  | 295.1        |                  | 276.0        |       |
| BUDGET ACTIVITY 07: AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES |                              |            |                  |              |                  |              |                  |              |       |
| -----   |                              |            |                  |              |                  |              |                  |              |       |
| COMMON SUPPORT EQUIPMENT                                      |                              |            |                  |              |                  |              |                  |              |       |
| 60  | COMMON SUPPORT EQUIPMENT     | A          |                  | 167.3        |                  | 207.2        |                  | 180.9        | U     |
| POST PRODUCTION SUPPORT                                       |                              |            |                  |              |                  |              |                  |              |       |
| 61  | A-10                         | A          |                  | 2.2          |                  |              |                  |              | U     |
| 62  | B-1                          | B          |                  | 16.5         |                  | 6.4          |                  | 2.0          | U     |
| 63  | B-2A                         | A          |                  | 17.5         |                  | 11.6         |                  | 3.3          | U     |
| 64  | B-2A                         | A          |                  | 40.4         |                  | 37.6         |                  | 33.5         | U     |
| 65  | C-130                        | A          |                  | 7.0          |                  | 1.3          |                  | 10.9         | U     |
| 66  | E-4                          | A          |                  | 1.4          |                  |              |                  |              | U     |
| 67  | F-15 POST PRODUCTION SUPPORT | A          |                  | 6.8          |                  | 7.3          |                  | 7.5          | U     |
| 68  | F-16 POST PRODUCTION SUPPORT | A          |                  | 26.3         |                  | 14.3         |                  | 14.2         | U     |

DEPARTMENT OF THE AIR FORCE  
FY 2003 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: 29 JAN 2002

| MILLIONS OF DOLLARS |   |       |          |         |          |       |          |       |     |
|---------------------|---|-------|----------|---------|----------|-------|----------|-------|-----|
| LINE                | ITEM NOMENCLATURE                               | IDENT | FY 2001  |         | FY 2002  |       | FY 2003  |       | S   |
| NO                  |   |       | QUANTITY | COST    | QUANTITY | COST  | QUANTITY | COST  |     |
| ----                | -----   | ----  | -----    | -----   | -----    | ----- | -----    | ----- | --- |
|                     | INDUSTRIAL PREPAREDNESS                         |       |          |         |          |       |          |       |     |
| 69                  | INDUSTRIAL PREPAREDNESS                         | A     |          | 25.1    | 25.2     |       | 22.2     |       | U   |
|                     | WAR CONSUMABLES                                 |       |          |         |          |       |          |       |     |
| 70                  | WAR CONSUMABLES                                 | A     |          | 58.7    | 47.5     |       | 38.4     |       | U   |
|                     | OTHER PRODUCTION CHARGES                        |       |          |         |          |       |          |       |     |
| 71                  | MISC PRODUCTION CHARGES                         | A     |          | 362.5   | 323.3    |       | 349.5    |       | U   |
|                     | COMMON ECM EQUIPMENT                            |       |          |         |          |       |          |       |     |
| 72                  | COMMON ECM EQUIPMENT                            | A     |          | 4.8     | 1.2      |       | 1.2      |       | U   |
|                     | OTHER PRODUCTION CHARGES - SOF                  |       |          |         |          |       |          |       |     |
| 73                  | CANCELLED ACCOUNT PY ADJUSTMENTS                | A     |          | .1      |          |       |          |       | U   |
|                     | DARP  |       |          |         |          |       |          |       |     |
| 74                  | DARP  | A     |          | 6.0     | 90.0     |       | 83.8     |       | U   |
|                     | TOTAL AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES |       |          | 742.5   | 772.9    |       | 747.4    |       |     |
|                     | TOTAL AIRCRAFT PROCUREMENT, AIR FORCE           |       |          | 9,920.3 | 10,493.6 |       | 12,067.4 |       |     |



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FY 2002 BUDGET ESTIMATES

FEBRUARY 2002

**SECTION 4:**

**P-1 LINE ITEM DETAIL**

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**FY 2003 BUDGET ESTIMATES**  
**BUDGET ACTIVITY 01 – COMBAT AIRCRAFT**  
**FEBRUARY 2002**

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
|--|---------------------|

|   |  |
|---|--|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor)</b> |
|---|--|

| Program Element for Code B Items: | N/A         | Other Related Program Elements: |          |          |          |          |          |          | PE27219F |           |           |
|-----------------------------------|-------------|---------------------------------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
| ID Code                           | Prior Years | FY 2001                         | FY 2002  | FY 2003  | FY 2004  | FY 2005  | FY 2006  | FY 2007  | To Comp  | Total     |           |
| Proc Qty                          | A           | 2                               | 10       | 13       | 23       | 27       | 32       | 40       | 56       | 130       | 333       |
| Cost (\$ M)                       |             | 573.896                         | 1465.772 | 2769.553 | 4084.036 | 3997.275 | 3844.059 | 3975.580 | 5087.835 | 10952.410 | 36750.416 |
| Advance Proc Cost (\$ M)          |             | 554.181                         | 1070.722 | 267.759  | 530.634  | 567.913  | 848.539  | 679.050  | 598.945  | 724.336   | 5842.079  |
| Weapon System Cost (\$ M)         |             | 1128.077                        | 2536.494 | 3037.312 | 4614.670 | 4565.188 | 4692.598 | 4654.630 | 5686.780 | 11676.746 | 42592.495 |
| Initial Spares (\$ M)             |             | 24.937                          | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000    | 0.000     | 24.937    |
| Total Proc Cost (\$ M)            |             | 1153.014                        | 2536.494 | 3037.312 | 4614.670 | 4565.188 | 4692.598 | 4654.630 | 5686.780 | 11676.746 | 42617.432 |
| Flyaway Unit Cost (\$ M)          |             | 317.396                         | 141.532  | 213.530  | 162.836  | 142.242  | 114.493  | 97.795   | 88.775   | 82.750    | 107.439   |
| Wpn Sys Unit Cost (\$ M)          |             | 385.548                         | 253.649  | 233.639  | 200.638  | 169.081  | 146.644  | 116.366  | 101.550  | 89.821    | 127.905   |

**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 worldwide threats. The F-22 is designed to penetrate enemy airspace and achieve a first-look, first-kill capability against multiple targets. The F-22 is characterized by a low-observable highly maneuverable airframe, advanced integrated avionics, and a new engine capable of supersonic cruise without the use of afterburner.

The LRIP DAB decision in Aug 01 approved production of at least 297 aircraft (does not include 6 PRTV II aircraft purchased with RDT&E funds), allowing for more aircraft to be purchased each year if affordable, with an objective of 333 total aircraft.

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 part of an overall support material capability. This support material capability is a flexible and responsive performance-based approach to provide the right part at the right place at the right time to support the flying hour program. The Air Force closely scrutinizes the contractor's plan for providing support as a capability during the proposal phase. However, after contract award the contractor is required to provide the required capability and not simply a list of spares. This approach allows the contractor, as the F-22 Inventory Control Point, to optimize the use of spares and quick-turn repair arrangements as the weapon system matures and actual trend data is acted upon.

The FY01 Flyaway Unit Cost does not include \$667M of Lot 1 'Bridge Funding' that was released as Lot 1 Advance Procurement. The Flyaway Unit Cost, including the Lot 1 'Bridge Funding' would be \$208.231M.

Per Congressional direction, beginning in FY02 Diminishing Manufacturing Sources(DMS) funding has shifted from Advanced Procurement Cost to the Cost line.

**FY 2003 Program Justification**

Procure 23 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 FY04 buy.

P-1 Shopping List Item No. 01

**Budget Item Justification  
Exhibit P-40, page 1 of 15**

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|   |                     |
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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
|---|---------------------|

|   |  |
|---|--|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor)</b> |
|---|--|

|   |              |
|---|--------------|
| Manufacturer's Name/Plant City/State Location | Subline Item |
|---|--------------|

| Weapon System Cost Elements                      | Ident Code | Total Cost In Millions of Dollars |           |            |         |           |            |         |           |            |
|--|------------|-----------------------------------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
|  |            | FY 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|  |            | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| Airframes/CFE                                    | A          | 10                                | 123.458   | 1234.581   | 13      | 107.908   | 1402.804   | 23      | 88.834    | 2043.188   |
| Engine/Accessories (shipset)                     | A          | 10                                | 20.881    | 208.806    | 13      | 21.937    | 285.181    | 23      | 20.723    | 476.637    |
| Avionics   | A          | 10                                | 42.166    | 421.657    | 13      | 40.400    | 525.202    | 23      | 28.484    | 655.127    |
| Nonrecurring Costs                               | A          |                                   |           | 217.630    |         |           | 562.702    |         |           | 570.279    |
| Less: Flyaway Lot 1 Bridge Funding               | A          |                                   |           | -667.356   |         |           |            |         |           |            |
| <b>FLYAWAY COST SUBTOTAL</b>                     | A          |                                   |           | 1415.318   |         |           | 2775.889   |         |           | 3745.231   |
| Less: Prior Year Adv Procurement                 | A          |                                   |           | -278.761   |         |           | -396.222   |         |           | -267.759   |
| Plus: Current Year Adv Procurement               | A          |                                   |           | 396.222    |         |           | 267.759    |         |           | 530.634    |
| Plus: Lot 1 Bridge Funding                       | A          |                                   |           | 674.500    |         |           |            |         |           |            |
| Other  | A          |                                   |           | 15.422     |         |           | 33.996     |         |           | 39.389     |
| Less: GFE Lot 1 Bridge Funding                   | A          |                                   |           | -7.144     |         |           |            |         |           |            |
| Production Support - Other (PSO)                 | A          |                                   |           | 115.614    |         |           | 75.347     |         |           | 161.773    |
| Performance-based Agile Logistics Support (PALS) | A          |                                   |           | 114.035    |         |           | 167.095    |         |           | 273.276    |
| Subtotal Air Vehicle Support                     | A          |                                   |           | 229.649    |         |           | 242.442    |         |           | 435.049    |
| Engine Support                                   | A          |                                   |           | 91.288     |         |           | 113.448    |         |           | 132.126    |
| Interim Supply Support                           | A          |                                   |           |            |         |           |            |         |           |            |
| Publications/Technical Data                      | A          |                                   |           |            |         |           |            |         |           |            |
| ECOs   | A          |                                   |           |            |         |           |            |         |           |            |
| Other  | A          |                                   |           |            |         |           |            |         |           |            |
| Subtotal Support Costs                           | A          |                                   |           | 329.215    |         |           | 389.886    |         |           | 606.563    |
| <b>TOTAL PROGRAM</b>                             |            |                                   |           | 2536.494   |         |           | 3037.312   |         |           | 4614.670   |

**Comments**  
 The FLYAWAY COST SUBTOTAL Total Cost number does not match the Flyaway Unit Cost number on the P-40 because one is a total cost and the other is an average unit cost.

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
|---|---------------------|

|   |  |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor)</b> |
|---|--|

|               |  |  |  |  |          |  |  |          |  |  |          |
|---------------|--|--|--|--|----------|--|--|----------|--|--|----------|
| TOTAL PROGRAM |  |  |  |  | 2536.494 |  |  | 3037.312 |  |  | 4614.670 |
|---------------|--|--|--|--|----------|--|--|----------|--|--|----------|

The Non-Recurring line has increased since the FY02 PB due to DMS funding moving from Advance Procurement to Non-Recurring per Congressional direction.

|  |  |
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|-------------------------------|--|
| P-1 Shopping List Item No. 01 | Weapon System Cost Analysis<br>Exhibit P-5, page 3 of 15 |
|-------------------------------|--|

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| <b>Exhibit P-5A, Procurement History and Planning</b> | Date: February 2002 |
|---|---------------------|

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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor)</b> |
|---|--|

|                      |              |
|----------------------|--------------|
| <b>Weapon System</b> | Subline Item |
|----------------------|--------------|

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   | 253.846   | ASC/YF          | Jan-98         | SS              | FFP           | Lockheed Martin         | Dec-98     | Apr-02                 | Yes                  |                           |
| Lockheed Martin Corp | 10  | 165.624   | ASC/YF          | May-99         | SS              | FFP           | Lockheed Martin         | Sep-01     | Jan-03                 | Yes                  |                           |
| Lockheed Martin Corp | 13  | 148.308   | ASC/YF          | Apr-00         | SS              | FFP           | Lockheed Martin         | Jan-02     | Nov-03                 | Yes                  |                           |
| Lockheed Martin Corp | 23  | 117.318   | ASC/YF          | Oct-01         | SS              | FFP           | Lockheed Martin         | Nov-02     | Oct-04                 | Yes                  |                           |
| Pratt & Whitney      | 4   | 14.125    | ASC/YF          | Dec-97         | SS              | FFP           | Pratt & Whitney         | Dec-98     | Feb-01                 | Yes                  |                           |
| Pratt & Whitney      | 20  | 10.441    | ASC/YF          | Jan-99         | SS              | FFP           | Pratt & Whitney         | Apr-02     | May-02                 | Yes                  |                           |
| Pratt & Whitney      | 26  | 10.969    | ASC/YF          | May-00         | SS              | FFP           | Pratt & Whitney         | Mar-03     | May-03                 | Yes                  |                           |
| Pratt & Whitney      | 46  | 10.362    | ASC/YF          | Nov-01         | SS              | FFP           | Pratt & Whitney         | Mar-04     | May-04                 | 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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**Exhibit P-21, Production Schedule** Date: February 2002

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. 01** **F-22 (Raptor)**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |     |     |     |     |     |                    |     |     |     |     |     | FISCAL YEAR 2002   |     |     |     |     |     |     |     |     |     |     |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
|                  |      |           |                            |                              | 2000             |     |     |     |     |     | CALENDAR YEAR 2001 |     |     |     |     |     | CALENDAR YEAR 2002 |     |     |     |     |     |     |     |     |     |     |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |           |
| 1999             | USAF | 2         | 0                          | 2                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 0   |     |     |           |
| 2000             | USAF | 0         | 0                          | 0                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 0   |     |     |           |
| 2001             | USAF | 10        | 0                          | 10                           |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 10  |     |     |           |
| 2002             | USAF | 13        | 0                          | 13                           |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 13  |     |     |           |
| 2003             | USAF | 23        | 0                          | 23                           |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 23  |     |     |           |
| 2004             | USAF | 27        | 0                          | 27                           |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 27  |     |     |           |
| 2005             | USAF | 32        | 0                          | 32                           |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 32  |     |     |           |
| 2006             | USAF | 40        | 0                          | 40                           |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 40  |     |     |           |
| 2007             | USAF | 56        | 0                          | 56                           |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 56  |     |     |           |
| <b>TOTAL</b>     |      | 203       | 0                          | 203                          |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 201 |     |     |           |

| ITEM/MANUFACTURER'S NAME | LOCATION                | PRODUCTION RATES |                  |     | REACHED D+      | PROCUREMENT LEAD TIME |             |  |  |          |                   |    |  |  |
|--------------------------|-------------------------|------------------|------------------|-----|-----------------|-----------------------|-------------|--|--|----------|-------------------|----|--|--|
|                          |                         | MIN SUST         | SHIFT HOURS DAYS | MAX |                 | ADMIN LEAD TIME       |             |  |  | MFG TIME | TOTAL AFTER 1 OCT |    |  |  |
|                          |                         |                  |                  |     |                 | PRIOR 1 OCT           | AFTER 1 OCT |  |  |          |                   |    |  |  |
| Lockheed Martin          | Marietta, GA 30063-0000 |                  |                  | 56  |                 |                       |             |  |  |          |                   |    |  |  |
|                          |                         |                  |                  |     | INITIAL REORDER |                       |             |  |  |          |                   | 41 |  |  |

**REMARKS**  
 Initial MFG time reflects Advanced Procurement. It is the number of months from PRTV long lead award until the delivery of the first production aircraft.

P-1 Shopping List Item No. 01 Production Schedule  
Exhibit P-21, page 5 of 15

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Exhibit P-21, Production Schedule Date: February 2002

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number  
**Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01**

P-1 Line Item Nomenclature  
**F-22 (Raptor)**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2002 | BALANCE DUE AS OF 1 OCT 2002 | FISCAL YEAR 2003 |     |     |       |                    |     |     |     |     |     |     |     | FISCAL YEAR 2004   |     |     |     |     |     |     |     |     |     |     |     | LATRE |     |     |   |   |   |   |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-------|--------------------|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|---|---|---|---|
|                  |      |           |                            |                              | 2002             |     |     |       | CALENDAR YEAR 2003 |     |     |     |     |     |     |     | CALENDAR YEAR 2004 |     |     |     |     |     |     |     |     |     |     |     |       |     |     |   |   |   |   |
|                  |      |           |                            |                              | OCT              | NOV | DEC | TOTAL | JAN                | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP                | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG |       | SEP | OCT |   |   |   |   |
| 2001             | USAF | 10        | 0                          | 10                           |                  |     |     |       | 1                  |     | 1   | 1   | 1   | 1   | 1   | 1   | 2                  | 1   |     |     |     |     |     |     |     |     |     |     |       |     |     |   |   |   | 0 |
| 2002             | USAF | 13        | 0                          | 13                           |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1     | 2   | 1   | 1 | 1 | 2 | 0 |
| TOTAL            |      | 23        | 0                          | 23                           |                  |     |     |       | 1                  |     | 1   | 1   | 1   | 1   | 1   | 1   | 2                  | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 2     | 1   | 1   | 1 | 2 | 0 |   |

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |             |          |                   |
|--------------------------|----------|------------------|-------------|-------|------------|-----------------------|-------------|----------|-------------------|
|                          |          | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |
| Lockheed Martin          |          |                  |             |       |            | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |
|                          |          |                  |             |       |            |                       |             |          |                   |
|                          |          |                  |             |       |            |                       |             |          |                   |
|                          |          |                  |             |       |            |                       |             |          |                   |

REMARKS

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor)</b> |
|---|--|

| 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 |          |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|
|                  |      |           |                            |                              | 2004             |          |          |          | CALENDAR YEAR 2005 |          |          |          |          |          |          |          | CALENDAR YEAR 2006 |          |          |          |          |          |          |          |          |          |          |          |           |          |
|                  |      |           |                            |                              | OCT              | NOV      | DEC      | JAN      | FEB                | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      | OCT                | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      |           |          |
| 2003             | USAF | 23        | 0                          | 23                           | 1                | 2        | 2        | 2        | 2                  | 2        | 2        | 2        | 1        | 2        | 2        | 2        | 3                  |          |          |          |          |          |          |          |          |          |          | 0        |           |          |
| 2004             | USAF | 27        | 0                          | 27                           |                  |          |          |          |                    |          |          |          |          |          |          |          | 2                  | 2        | 1        | 3        | 2        | 3        | 2        | 2        | 3        | 2        | 2        | 3        | 0         |          |
| <b>TOTAL</b>     |      | <b>50</b> | <b>0</b>                   | <b>50</b>                    | <b>1</b>         | <b>2</b> | <b>2</b> | <b>2</b> | <b>2</b>           | <b>2</b> | <b>2</b> | <b>2</b> | <b>1</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>3</b>           | <b>2</b> | <b>2</b> | <b>1</b> | <b>3</b> | <b>2</b> | <b>3</b> | <b>2</b> | <b>2</b> | <b>3</b> | <b>2</b> | <b>2</b> | <b>3</b>  | <b>0</b> |
|                  |      |           |                            |                              | OCT              | NOV      | DEC      | JAN      | FEB                | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      | OCT                | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      |           |          |

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |             |       | REACHED D+  | PROCUREMENT LEAD TIME |  |          |                   |
|--------------------------|----------|------------------|-------------|-------|-------------|-----------------------|--|----------|-------------------|
|                          |          | MIN SUST         | SHIFT HOURS | M A X |             | ADMIN LEAD TIME       |  | MFG TIME | TOTAL AFTER 1 OCT |
|                          |          |                  |             |       | PRIOR 1 OCT | AFTER 1 OCT           |  |          |                   |
| Lockheed Martin          |          |                  |             |       |             |                       |  |          |                   |
|                          |          |                  |             |       |             |                       |  |          |                   |
|                          |          |                  |             |       |             |                       |  |          |                   |
|                          |          |                  |             |       |             |                       |  |          |                   |
| REMARKS                  |          |                  |             |       |             |                       |  |          |                   |



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| Exhibit P-21, Production Schedule   |      |           |                            |                              |                  | Date: February 2002        |                       |                    |     |     |          |                   |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |  |
|---|------|-----------|----------------------------|------------------------------|------------------|----------------------------|-----------------------|--------------------|-----|-----|----------|-------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--|
| 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. 01 |      |           |                            |                              |                  | F-22 (Raptor)              |                       |                    |     |     |          |                   |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |  |
| PROCUREMENT YEAR  | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2008 | BALANCE DUE AS OF 1 OCT 2008 | FISCAL YEAR 2009 |                            |                       |                    |     |     |          |                   |     |     |     |     | FISCAL YEAR 2010   |     |     |     |     |     |     |     |     |     |     |     | L A T E R |  |
|   |      |           |                            |                              | 2008             |                            |                       | CALENDAR YEAR 2009 |     |     |          |                   |     |     |     |     | CALENDAR YEAR 2010 |     |     |     |     |     |     |     |     |     |     |     |           |  |
|   |      |           |                            |                              | OCT              | NOV                        | DEC                   | JAN                | FEB | MAR | APR      | MAY               | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |           |  |
| 2007  |      | USAF      | 56                         | 0                            | 56               | 5                          | 4                     | 4                  | 4   | 5   | 5        | 5                 | 4   | 5   | 5   | 5   | 5                  |     |     |     |     |     |     |     |     |     |     | 0   |           |  |
| <b>TOTAL</b>  |      |           | 56                         | 0                            | 56               | 5                          | 4                     | 4                  | 4   | 5   | 5        | 5                 | 4   | 5   | 5   | 5   |                    |     |     |     |     |     |     |     |     |     | 0   |     |           |  |
|   |      |           |                            |                              |                  | OCT                        | NOV                   | DEC                | JAN | FEB | MAR      | APR               | MAY | JUN | JUL | AUG | SEP                | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP       |  |
| ITEM/MANUFACTURER'S NAME  |      | LOCATION  | PRODUCTION RATES           |                              |                  | REACHED D+                 | PROCUREMENT LEAD TIME |                    |     |     | MFG TIME | TOTAL AFTER 1 OCT |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |  |
|   |      |           | MIN SUST                   | SHIFT HOURS DAYS             | M A X            |                            | ADMIN LEAD TIME       |                    |     |     |          |                   |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |  |
| Lockheed Martin   |      |           |                            |                              |                  |                            |                       |                    |     |     |          |                   |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |  |
|   |      |           |                            |                              |                  |                            |                       |                    |     |     |          |                   |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |  |
|   |      |           |                            |                              |                  |                            |                       |                    |     |     |          |                   |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |  |
|   |      |           |                            |                              |                  |                            |                       |                    |     |     |          |                   |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |  |
|   |      |           |                            |                              |                  |                            |                       |                    |     |     |          |                   |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |  |
| REMARKS   |      |           |                            |                              |                  |                            |                       |                    |     |     |          |                   |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |  |
|   |      |           |                            |                              |                  |                            |                       |                    |     |     |          |                   |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |  |

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| <b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor)</b> |
|---|--|

**Weapon System F-22**

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

| Fin Plan | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | Total   |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| Quantity | 6       | 12      | 10      | 3       | 15      | 22      | 12      | 80      |
| Proc     | 52.862  | 47.540  | 69.997  | 14.338  | 59.897  | 117.090 | 66.770  | 428.494 |

**TRAINING SYSTEM DESCRIPTION**

Note: Total quantity and procurement dollars does not include 'To Complete' amounts included on the following pages.

Unit Training Devices

Aircrew Trainers

The Full Mission Trainer (FMT) is a highly defined 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 operations, 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 weapon system, and it 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. Quantities are the number of actual FMT devices, where four FMT devices equal one complex.

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

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

Aircrew Trainer Support

The aircrew trainer support line includes electronic classrooms, Training System Support Center (TSSC), curriculum and courseware, and analysis and integration for the pilot training system and the overall F-22 training system. The electronic classrooms are designed to provide presentation of multi-media course data for F-22 maintainers. Computer based Integrated Maintenance Information System (IMIS) technical data is integrated with course materials presented to students at Computer Based Training (CBT). The Training System Support Center (TSSC) is designed to integrate various components of the F-22 training system to facilitate distribution of training data through 'TSSC Nodes' support software for upgrading multi-media course presentations, and tracking/maintaining system configuration. Analysis and integration (A&I) effort is required for planning, and executing the production, test and deployment of the F-22 training system. The overall training system analysis and integration function also

|                               |   |
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| P-1 Shopping List Item No. 01 | <b>Simulator and Training Device Justification (\$ M)</b><br><b>Exhibit P-43 p.1, page 10 of 15</b> |
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| <b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor)</b> |
|---|--|

**TRAINING SYSTEM DESCRIPTION Continued**

includes initial peculiar support equipment lay-in, initial spares lay-in, and initial consumables lay-in.

The Instructor Led Weapons and Tactics Trainer (ILWTT) classroom will house multi-ship networks of WTTs at the Formal Training Unit (FTU). An instructor station and multimedia equipment located in the classroom will enable the pilot instructor to control and display multiple independent WTT networks.

The brief/debrief rooms will enable students and instructors to utilize multimedia equipment to brief FMT training missions and review mission video and cockpit instrumentation following the FMT training mission.

The Electronic Workbooks (EWBs) are commercial-off-the-shelf (COTS) workstations connected on a classified network. They will be used at the FTU by students to study and review the pilot training courseware. The EWBs will be located in the Computer Based Training (CBT) classroom and there will be one EWB in each of the ILWTT classrooms.

The Instructor-led Multimedia Academics (ILMMA) is an instructor presented computer-based multimedia presentation. It builds upon the information learned from the EWB.

The Training System Support Center (TSSC) nodes will be a collection of equipment, software, and networks required to maintain and update pilot and maintenance training devices (hardware and software) and pilot training courseware.

**Maintenance Trainers**  
The On-Equipment Structures Trainer (OST) will provide removal and installation training of generic panels and doors as well as removal, application and installation training of selected structures materials and components. The doors and panels will be mounted on removable modules, which may be raised, lowered and rotated to simulate maintainer access to aft surfaces of the air vehicle.

The Seat and Canopy Trainer (SCT) will provide the capability to perform inspection, repair, fault isolation, removal, installation, operation, and checkout tasks on the ejection seat and canopy systems of the aircraft.

**Maintenance Trainer Support**  
The maintenance support line includes maintenance training material and equipment, which are designed to provide the necessary items required for use in the various maintenance training laboratories. Also included in the maintenance support line is the analysis and integration function, which is required for planning, and executing the production, test and deployment of the F-22 maintenance training system. This includes, but is not limited to, engineering activities to analyze aircraft changes to determine training system impacts and integration of changes into the training system.

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| P-1 Shopping List Item No. 01 | <b>Simulator and Training Device Justification (\$ M)</b><br>Exhibit P-43 p.1, page 11 of 15 |
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| <b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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|---|--|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor)</b> |
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**TRAINING SYSTEM DESCRIPTION Continued**

The Off-Equipment Training Material (OETM) is a collection of sample or damaged structural components used to train maintenance technicians to perform structural maintenance tasks such as back shop composite repair, non-destructive inspection (NDI), and metals repair.

The Hardware Repair Training Material (HRTM) is a mixture of scrap and extra inventory aircraft hardware commonly encountered in aircraft maintenance such as fiber optic repair and connector repair.

The Seat Maintenance Training Equipment (SMTE) allows students to practice off-equipment maintenance of seat components using real, inert equipment.

The Life Support Equipment Lab (LSEL) allows students to perform maintenance on the life support components of the F-22 aircraft.

Unclassified classrooms will contain eight (8) student Computer Based Training (CBT) workstations and one instructor operator station for use in presenting maintenance-training courseware. Portable Maintenance Aids (PMAs) will be used in the course of training. A multimedia system will transmit audio/video outputs from the instructor's CBT workstation and video player to a screen in the front of the classroom. A Maintenance Support Workstation (MSW) will be provided to connect to the unclassified Integrated Management Information System (IMIS).

Classified classrooms will be approximately the same as the unclassified classrooms.

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| P-1 Shopping List Item No. 01 | Simulator and Training Device Justification (\$ M)<br>Exhibit P-43 p.1, page 12 of 15 |
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| <b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor)</b> |
|---|--|

**Weapon System F-22**

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

| IOC Date                           |      |                  |                           |                                  |         |        |         |        |         |        |
|------------------------------------|------|------------------|---------------------------|----------------------------------|---------|--------|---------|--------|---------|--------|
| TRAINING<br>DEVICE<br>BY TYPE      | SITE | DELIVERY<br>TIME | READY<br>TRAINING<br>DATE | AVG<br>STUDENT<br>THROUGH<br>PUT | FY 2001 |        | FY 2002 |        | FY 2003 |        |
|                                    |      |                  |                           |                                  | QTY     | COST   | QTY     | COST   | QTY     | COST   |
| Egress                             |      |                  |                           |                                  |         |        |         |        | 1       | 1.784  |
| Weapons                            |      |                  |                           |                                  | 4       | 7.659  | 6       | 12.415 | 5       | 10.335 |
| Full Mission Trainers              |      |                  |                           |                                  | 2       | 27.008 | 2       | 17.862 | 4       | 33.253 |
| On-Equipment Structures<br>Trainer |      |                  |                           |                                  |         |        | 2       | 1.723  |         |        |
| Seat and Canopy Trainer            |      |                  |                           |                                  |         |        | 2       | 6.536  |         |        |
| <b><u>TOTAL</u></b>                |      |                  |                           |                                  | 6       | 34.667 | 12      | 38.536 | 10      | 45.372 |

|                               |  |
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| P-1 Shopping List Item No. 01 | <b>Simulator and Training Device Justification (\$ M)</b><br>Exhibit P-43 p.2, page 13 of 15 |
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| <b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor)</b> |
|---|--|

**Weapon System F-22**

**Equipment Nomenclature: Aircrew Trainers**

**Description:**

| FINANCIAL PLAN              | FY 2001 |        | FY 2002 |        | FY 2003 |        | To Complete |         | Total Costs |         |
|-----------------------------|---------|--------|---------|--------|---------|--------|-------------|---------|-------------|---------|
|                             | QTY     | COST   | QTY     | COST   | QTY     | COST   | QTY         | COST    | QTY         | COST    |
| <b>Hardware Costs</b>       |         |        |         |        |         |        |             |         |             |         |
| Training Systems            | 6       | 34.667 | 8       | 30.278 | 10      | 45.372 | 41          | 152.449 | 65          | 262.766 |
| <b>Total Hardware Costs</b> | 6       | 34.667 | 8       | 30.278 | 10      | 45.372 | 41          | 152.449 | 65          | 262.766 |
| <b>Support Costs</b>        |         |        |         |        |         |        |             |         |             |         |
|                             |         | 6.821  |         | 6.804  |         | 20.949 |             | 101.428 |             | 152.189 |
| <b>Total Support Costs</b>  |         | 6.821  |         | 6.804  |         | 20.949 |             | 101.428 |             | 152.189 |
| <b>TOTAL COSTS</b>          | 6       | 41.488 | 8       | 37.082 | 10      | 66.321 | 41          | 253.877 | 65          | 414.955 |

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| <b>Exhibit P-43 p.4, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 01</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor)</b> |
|---|--|

**Weapon System F-22**

**Equipment Nomenclature: Maintenance**

**Description:**

| FINANCIAL PLAN              | FY 2001 |        | FY 2002 |        | FY 2003 |       | To Complete |        | Total Costs |         |
|-----------------------------|---------|--------|---------|--------|---------|-------|-------------|--------|-------------|---------|
|                             | QTY     | COST   | QTY     | COST   | QTY     | COST  | QTY         | COST   | QTY         | COST    |
| <b>Hardware Costs</b>       |         |        |         |        |         |       |             |        |             |         |
|                             |         |        | 4       | 8.257  |         |       | 22          | 52.537 | 26          | 60.795  |
| <b>Total Hardware Costs</b> |         |        | 4       | 8.257  |         |       | 22          | 52.537 | 26          | 60.795  |
| <b>Support Costs</b>        |         |        |         |        |         |       |             |        |             |         |
|                             |         | 11.374 |         | 2.200  |         | 3.675 |             | 42.403 |             | 59.653  |
| <b>Total Support Costs</b>  |         | 11.374 |         | 2.200  |         | 3.675 |             | 42.403 |             | 59.653  |
| <b>TOTAL COSTS</b>          |         | 11.374 | 4       | 10.457 |         | 3.675 | 22          | 94.940 | 26          | 120.448 |

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 02</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor) Advance Procurement</b> |
|---|--|

| Program Element for Code B Items: |         | N/A         |          |         | Other Related Program Elements: |         |         |         |         | PE27219F |         |          |
|-----------------------------------|---------|-------------|----------|---------|---------------------------------|---------|---------|---------|---------|----------|---------|----------|
|                                   | ID Code | Prior Years | FY 2001  | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |          | To Comp | Total    |
| Proc Qty                          | A       |             |          |         |                                 |         |         |         |         |          |         |          |
| Cost (\$ M)                       |         |             |          |         |                                 |         |         |         |         |          |         |          |
| Advance Proc Cost (\$ M )         |         | 554.181     | 1070.722 | 267.759 | 530.634                         | 567.913 | 848.539 | 679.050 | 598.945 |          | 724.336 | 5842.079 |
| Weapon System Cost (\$ M)         |         | 554.181     | 1070.722 | 267.759 | 530.634                         | 567.913 | 848.539 | 679.050 | 598.945 |          | 724.336 | 5842.079 |
| Initial Spares (\$ M)             |         |             |          |         |                                 |         |         |         |         |          |         |          |
| Total Proc Cost (\$ M)            |         | 554.181     | 1070.722 | 267.759 | 530.634                         | 567.913 | 848.539 | 679.050 | 598.945 |          | 724.336 | 5842.079 |
| 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 worldwide threats. The F-22 is designed to penetrate enemy airspace and achieve a first-look, first-kill capability against multiple targets. The F-22 is characterized by a low-observable highly maneuverable airframe, advanced integrated avionics, and a new engine capable of supersonic cruise without the use of afterburner.

**FY 2003 Program Justification**

Procures long-lead parts and materials necessary to protect the delivery schedule of the FY 04 buy.

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| <b>Exhibit P-10 p.1, Advance Procurement Requirements Analysis<br/>(Page 1 - Funding)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 02</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor) Advance Procurement</b> |
|---|--|

|                         |                                   |  |
|-------------------------|-----------------------------------|--|
| Weapon System<br>F-22AP | First System Award Date<br>Jun-98 | First System Completion Date<br>Nov-01 |
|-------------------------|-----------------------------------|--|

(\$ in Millions)

| Description     | PLT | When Rqd | Prior Years    | FY 2001         | FY 2002        | FY 2003        | FY 2004        | FY 2005        | FY 2006        | FY 2007        | To Comp        | Total           |
|-----------------|-----|----------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| End Item Qty    |     |          | 2              | 10              | 13             | 23             | 27             | 32             | 40             | 56             | 130            | 333             |
| CFE             |     |          | 486.768        | 996.922         | 267.759        | 530.634        | 567.913        | 448.539        | 579.050        | 548.945        | 724.336        | 5150.866        |
| GFE             |     |          |                |                 |                |                |                |                |                |                |                |                 |
| EOQ             |     |          |                |                 |                |                |                | 400.000        | 100.000        | 50.000         |                | 550.000         |
| Design          |     |          | 67.413         | 73.800          |                |                |                |                |                |                |                | 141.213         |
| Term Liability  |     |          |                |                 |                |                |                |                |                |                |                |                 |
| <b>TOTAL AP</b> |     |          | <b>554.181</b> | <b>1070.722</b> | <b>267.759</b> | <b>530.634</b> | <b>567.913</b> | <b>848.539</b> | <b>679.050</b> | <b>598.945</b> | <b>724.336</b> | <b>5842.079</b> |

**Description:**  
CFE represents required funding for Contractor Furnished Equipment (CFE) for both Air Vehicle and Engine. The FY01 CFE amount includes \$674.5M of Lot 1 funding allocated as Lot 1 Advanced Procurement and used as 'bridge funding' for Lot 1 prior to the LRIP DAB and subsequent Lot 1 contract award.

Design line represents funding for Diminishing Manufacturing Sources (DMS). Starting in FY02, DMS funding has moved out of advance procurement and into the aircraft procurement non-recurring funding.

EOQ (Economic Order Quantity) represents cost for upfront Multi-Year Procurement.

First system award date reflects advanced buy for PRTV I.

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| <b>Exhibit P-10 p.2, Advance Procurement Requirements Analysis<br/>(Page 2 - Budget Justification)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 02</b> | P-1 Line Item Nomenclature<br><b>F-22 (Raptor) Advance Procurement</b> |
|---|--|

Weapon System  
F-22AP

(TOA, \$ in Millions)

| Description          | PLT | OPA | Unit Cost | 2001 QTY | 2001              | 2001 Total      | 2002 QTY | 2002              | 2002 Total     | 2003 QTY | 2003              | 2003 Total     |
|----------------------|-----|-----|-----------|----------|-------------------|-----------------|----------|-------------------|----------------|----------|-------------------|----------------|
|                      |     |     |           |          | Contract Forecast | Cost Request    |          | Contract Forecast | Cost Request   |          | Contract Forecast | Cost Request   |
| End Item             |     |     |           |          |                   |                 |          |                   |                |          |                   |                |
| Lot 1 Bridge Funding |     |     |           |          |                   | 674.500         |          |                   |                |          |                   |                |
| CFE                  |     |     |           | 13       | Sep-01            | 322.422         | 23       | Jan-02            | 267.759        | 27       | Nov-02            | 530.634        |
| EOQ                  |     |     |           |          |                   |                 |          |                   |                |          |                   |                |
| Design               |     |     |           | 13       | Sep-01            | 73.800          |          |                   |                |          |                   |                |
| <b>TOTAL AP</b>      |     |     |           |          |                   | <b>1070.722</b> |          |                   | <b>267.759</b> |          |                   | <b>530.634</b> |

**Description:**  
CFE represents required funding for Contractor Furnished Equipment (CFE) for both Air Vehicle and Engine. The FY01 CFE amount includes \$674.5M of Lot 1 funding allocated as Lot 1 Advanced Procurement and used as 'bridge funding' for Lot 1 prior to the LRIP DAB and subsequent Lot 1 contract award.

Design line represents funding for Diminishing Manufacturing Sources (DMS). Starting in FY02, DMS funding has moved out of advance procurement and into the aircraft procurement non-recurring funding.

Contract Forecast Date reflects advanced procurement date for Lot 3.

Production Lead Time (PLT) is 35 months for the Air Vehicle and 27 months for the Engine.

|                               |  |
|-------------------------------|--|
| P-1 Shopping List Item No. 02 | <b>Advance Procurement Requirements Analysis<br/>(Page 2 - Budget Justification)<br/>Exhibit P-10 p.2, page 3 of 3</b> |
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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 03</b> | P-1 Line Item Nomenclature<br><b>F-15E</b> |
|---|--|

| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         | None.   |         |           |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|---------|-----------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 | To Comp | Total     |
| Proc Qty                          | A       | 1,100       | 5       | 0       | 0                               | 0       | 0       | 0       | 0       | 0       | 1,105     |
| Cost (\$ M)                       |         | 26219.910   | 356.183 | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |         | 26576.093 |
| Advance Proc Cost (\$ M )         |         |             | 0.000   | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |         | 0.000     |
| Weapon System Cost (\$ M)         |         | 26219.910   | 356.183 | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |         | 26576.093 |
| Initial Spares (\$ M)             |         | 0.000       | 0.000   | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |         | 0.000     |
| Total Proc Cost (\$ M)            |         | 26219.910   | 356.183 | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |         | 26576.093 |
| Flyaway Unit Cost (\$ M)          |         |             | 75.789  |         |                                 |         |         |         |         |         |           |
| Wpn Sys Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |         |           |

**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 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 infrared for night (Lantirn) capability; automatic terrain following/terrain avoidance; and other improvements necessary to fulfill the deep penetration and night-under-the-weather air-to-air surface attack mission. Configured with conformal fuel tanks (CFTs), the F-15E can deploy worldwide with minimal tanker support and arrive combat ready. The program is a Congressional-add to FY00 and FY01 for the purchase of attrition reserve F-15Es.

**FY 2003 Program Justification**

Not Applicable

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**Exhibit P-5, Weapon System Cost Analysis** Date: February 2002

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. 03** **F-15E**

Manufacturer's Name/Plant City/State Location Subline Item

| Weapon System Cost Elements                | Ident Code | Total Cost In Millions of Dollars |           |                |         |           |            |         |           |            |
|--|------------|-----------------------------------|-----------|----------------|---------|-----------|------------|---------|-----------|------------|
|  |            | FY 2001                           |           |                | FY 2002 |           |            | FY 2003 |           |            |
|  |            | Qty                               | Unit Cost | Total Cost     | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| Avionics                                   | A          | 5                                 | 0.999     | 4.993          |         |           |            |         |           |            |
| Airframe/CFE                               | A          | 5                                 | 54.278    | 271.390        |         |           |            |         |           |            |
| Engine/Accessories                         | A          | 10                                | 4.123     | 41.230         |         |           |            |         |           |            |
| Parts Obsolescence                         | A          |                                   |           | 7.424          |         |           |            |         |           |            |
| Armament                                   | A          |                                   |           |                |         |           |            |         |           |            |
| Software                                   | A          |                                   |           |                |         |           |            |         |           |            |
| Other Government Furnished Equipment (GFE) | A          | 5                                 | 3.401     | 17.007         |         |           |            |         |           |            |
| Engineering Change Orders (ECO)            | A          |                                   |           | 8.008          |         |           |            |         |           |            |
| Nonrecurring Costs                         | A          |                                   |           | 18.257         |         |           |            |         |           |            |
| Other Costs                                | A          |                                   |           | 10.647         |         |           |            |         |           |            |
| <b>FLYAWAY COST SUBTOTAL</b>               | A          |                                   |           | <b>378.956</b> |         |           |            |         |           |            |
| Advance Buy                                | A          |                                   |           |                |         |           |            |         |           |            |
| Gross P-1 Cost                             | A          |                                   |           |                |         |           |            |         |           |            |
| Less Prior Yr Adv. Proc                    | A          |                                   |           | -24.563        |         |           |            |         |           |            |
| Support Equipment                          | A          |                                   |           | 1.790          |         |           |            |         |           |            |
|  |            |                                   |           |                |         |           |            |         |           |            |
| <b>Total Cost</b>                          | A          |                                   |           | <b>356.183</b> |         |           |            |         |           |            |
|  |            |                                   |           |                |         |           |            |         |           |            |
| <b>TOTAL PROGRAM</b>                       |            |                                   |           |                |         |           |            |         |           |            |

**Comments**  
 The document represents the definitization of the combined FY00 and FY01 E227 Attrition Aircraft contract. The airframe line includes the airframe/CFE in addition to GFE Repair and DCN's. NonRecurring costs includes Tooling and Production Startup along with money to support PACS for their production in support of the E227 program. The Other GFE Line includes money for the aircraft GFE & AME & MORD. The Other Line includes TO's and Support costs. All GFE and AME hardware on DD-610 doc. FY00 includes \$90M of FY00 Supplemental funds not reflected in AF database.

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| <b>Exhibit P-5A, Procurement History and Planning</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 03</b> | P-1 Line Item Nomenclature<br><b>F-15E</b> |
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| <u>Weapon System</u> |     |           |                 | Subline Item   |                 |               |                         |            |                        |                      |                           |
|----------------------|-----|-----------|-----------------|----------------|-----------------|---------------|-------------------------|------------|------------------------|----------------------|---------------------------|
| F-15E                |     |           |                 |                |                 |               |                         |            |                        |                      |                           |
| 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 CFE      |     |           | ASC/FBA         |                | C               | FFP           |                         |            |                        |                      |                           |
| FY00                 | 5   | 58.325    | ASC/FBA         |                | FFP             | FFP           | The Boeing Company      | Mar-00     | May-02                 |                      |                           |
| FY01                 | 5   | 57.940    | ASC/FBA         |                | FFP             | FFP           | The Boeing Company      | Mar-01     | May-02                 |                      |                           |
| Propulsion           |     |           | ASC/LPP         |                | C               | FFP           |                         |            |                        |                      |                           |
| FY00                 | 10  | 4.067     | ASC/LP          |                | FFP             | FFP           | PRATT & WHITNEY         | Sep-00     | May-02                 | Yes                  |                           |
| FY01                 | 10  | 4.123     | ASC/LP          |                | FFP             | FFP           | PRATT & WHITNEY         | May-01     | May-02                 |                      |                           |
| Band 1.5             |     |           | ASC/FBA         |                | FFP             | FFP           |                         |            |                        |                      |                           |
| FY00                 | 5   | 2.000     | ASC/FBA         |                | FFP             | FFP           | Nothrup                 | Mar-02     | Mar-02                 | Yes                  |                           |
| FY01                 | 5   | 2.000     | ASC/FBA         |                | FFP             | FFP           | Northrup                | Mar-02     | Mar-02                 |                      |                           |

**Remarks**  
 \$575.073 of both year funds obligated on Mar 01. \$571.073 FFP with remaining \$4M as a CPFF contract for GFE Repair.

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 03</b> | P-1 Line Item Nomenclature<br><b>F-15E</b> |
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| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |     |     |     |     |     |                    |     |     |     |     |     | FISCAL YEAR 2002   |     |     |     |     |     |     |          |          |     |     |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|----------|----------|-----|-----|-----|-----------|
|                  |      |           |                            |                              | 2000             |     |     |     |     |     | CALENDAR YEAR 2001 |     |     |     |     |     | CALENDAR YEAR 2002 |     |     |     |     |     |     |          |          |     |     |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY      | JUN      | JUL | AUG | SEP |           |
| 2000             | USAF | 5         | 2                          | 3                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     | 1        |          |     |     |     |           |
| 2001             | USAF | 5         | 0                          | 5                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |          | 5        |     |     |     |           |
| <b>TOTAL</b>     |      | <b>10</b> | <b>2</b>                   | <b>8</b>                     |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     | <b>1</b> | <b>6</b> |     |     |     |           |

| ITEM/MANUFACTURER'S NAME | LOCATION            | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |  |          |                   |    |  |    |
|--------------------------|---------------------|------------------|-------------|-------|------------|-----------------------|--|----------|-------------------|----|--|----|
|                          |                     | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |  | MFG TIME | TOTAL AFTER 1 OCT |    |  |    |
| Boeing                   | St. Louis, MO 63316 | 1                | 4           | 5     |            |                       |  |          |                   |    |  |    |
|                          |                     |                  |             |       |            |                       |  |          |                   |    |  |    |
|                          |                     |                  |             |       |            |                       |  |          |                   | 26 |  | 26 |

REMARKS  
FY00 and FY01 USAF buys are for attrition reserve aircraft.

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**Exhibit P-21, Production Schedule** Date: February 2002

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. 03** **F-15E**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2002 | BALANCE DUE AS OF 1 OCT 2002 | FISCAL YEAR 2003 |          |       |       |       |       |                    |       |       |       |       |       | FISCAL YEAR 2004   |       |       |       |       |       |       |       |       |       |          |       | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|-------|-----------|
|                  |      |           |                            |                              | 2002             |          |       |       |       |       | CALENDAR YEAR 2003 |       |       |       |       |       | CALENDAR YEAR 2004 |       |       |       |       |       |       |       |       |       |          |       |           |
|                  |      |           |                            |                              | O C T            | N O V    | D E C | J A N | F E B | M A R | A P R              | M A Y | J U N | J U L | A U G | S E P | O C T              | N O V | D E C | J A N | F E B | M A R | A P R | M A Y | J U N | J U L | A U G    | S E P |           |
| 2000             | USAF | 5         | 2                          | 3                            |                  | 1        |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       |       |       | 0        |       |           |
| 2001             | USAF | 5         | 0                          | 5                            |                  |          |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       |       |       | 0        |       |           |
| <b>TOTAL</b>     |      | <b>10</b> | <b>2</b>                   | <b>8</b>                     |                  | <b>1</b> |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       |       |       | <b>0</b> |       |           |
|                  |      |           |                            |                              | 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 |           |

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |             |          | TOTAL AFTER 1 OCT |
|--------------------------|----------|------------------|-------------|-------|------------|-----------------------|-------------|----------|-------------------|
|                          |          | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |             | MFG TIME |                   |
|                          |          |                  |             |       |            | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |
| Boeing                   |          |                  |             |       |            |                       |             |          |                   |
|                          |          |                  |             |       |            |                       |             |          |                   |
|                          |          |                  |             |       |            |                       |             |          |                   |
|                          |          |                  |             |       |            |                       |             |          |                   |
|                          |          |                  |             |       |            |                       |             |          |                   |

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 04</b> | P-1 Line Item Nomenclature<br><b>F-16 C/D (MYP)</b> |
|---|---|

| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         |         |  |         |           |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|--|---------|-----------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |  | To Comp | Total     |
| Proc Qty                          | A       | 2,214       | 4       | 0       | 0                               | 6       | 6       | 0       | 0       |  | 0       | 2,230     |
| Cost (\$ M)                       |         | 32576.520   | 111.225 | 0.000   | 0.000                           | 224.932 | 234.140 | 0.000   | 0.000   |  |         | 33146.817 |
| Advance Proc Cost (\$ M)          |         | 2860.790    | 0.000   | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |  | 0.000   | 2860.790  |
| Weapon System Cost (\$ M)         |         | 35437.310   | 111.225 | 0.000   | 0.000                           | 224.932 | 234.140 | 0.000   | 0.000   |  | 0.000   | 36007.607 |
| Initial Spares (\$ M)             |         | 0.000       | 0.000   | 0.000   | 0.000                           | 0.000   | 0.000   |         |         |  |         | 0.000     |
| Total Proc Cost (\$ M)            |         | 35437.310   | 111.225 | 0.000   | 0.000                           | 224.932 | 234.140 | 0.000   | 0.000   |  | 0.000   | 36007.607 |
| Flyaway Unit Cost (\$ M)          |         | 15.970      | 26.600  |         |                                 |         |         |         |         |  |         |           |
| 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 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/night and all-weather). 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 over 20 air forces around the world. USAF and foreign military sales production will continue well into the 21st century. The F-16 System Program Office (SPO) develops, integrates and qualifies systems to enhance the overall performance of the F-16 mission.

**FY 2003 Program Justification**

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 04</b> | P-1 Line Item Nomenclature<br><b>F-16 C/D (MYP)</b> |
|---|---|

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| Manufacturer's Name/Plant City/State Location<br>Lockheed-Martin Aeronautics Company., Ft. Worth, TX | Subline Item |
|--|--------------|

| Weapon System Cost Elements                | Ident Code | Total Cost In Millions of Dollars |           |            |         |           |            |         |           |            |
|--|------------|-----------------------------------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
|  |            | FY 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|  |            | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| Airframe                                   | A          | 4                                 | 15.961    | 63.843     |         |           |            |         |           |            |
| Engine                                     | A          | 4                                 | 4.180     | 16.720     |         |           |            |         |           |            |
| Avionics                                   | A          | 4                                 | 1.377     | 5.506      |         |           |            |         |           |            |
| Armament                                   | A          |                                   |           |            |         |           |            |         |           |            |
| Software                                   | A          |                                   |           |            |         |           |            |         |           |            |
| Other Government Furnished Equipment (GFE) | A          | 4                                 | 2.129     | 8.515      |         |           |            |         |           |            |
| Engineering Change Orders (ECO)            | A          | 4                                 | 0.119     | 0.477      |         |           |            |         |           |            |
| Nonrecurring Costs                         | A          | 4                                 | 1.791     | 7.164      |         |           |            |         |           |            |
| Other Costs                                | A          |                                   |           |            |         |           |            |         |           |            |
| Less Prior Year Adv Procurement            | A          |                                   |           |            |         |           |            |         |           |            |
| <b>FLYAWAY COST SUBTOTAL</b>               | A          |                                   |           | 102.225    |         |           |            |         |           |            |
| Engine PGSE                                | A          |                                   |           | 3.000      |         |           |            |         |           |            |
| Peculiar Support Equipment                 | A          |                                   |           | 6.000      |         |           |            |         |           |            |
| <b>SUPPORT COST SUBTOTAL</b>               | A          |                                   |           | 9.000      |         |           |            |         |           |            |
| <b>TOTAL PROGRAM</b>                       |            |                                   |           | 111.225    |         |           |            |         |           |            |

**Comments**

FY00 Aircraft Procurement (10 aircraft) are Force Structure Aircraft to begin fielding the 10th Suppression of Enemy Air Defense (SEAD) Squadron. An additional 20 aircraft are required and 12 are funded--6 in FY04 and 6 in FY05. There are 4 block 50 attrition reserve aircraft funded in FY01.

FY00 Advance Procurement in the amount of 24.096 was a FY00 Congressional Plus-up to the FY00 PB, however, these funds have been rescinded in the FY01 Appropriation Conference.

FY01 aircraft include incorporation of Link 16, NVIS and JHMCS into the production line via ECP.



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| <b>Exhibit P-5A, Procurement History and Planning</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 04</b> | P-1 Line Item Nomenclature<br><b>F-16 C/D (MYP)</b> |
|---|---|

|                      |              |
|----------------------|--------------|
| <b>Weapon System</b> | 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? |
|---|-----|-----------|------------------|----------------|-----------------|---------------|---|------------|------------------------|----------------------|---------------------------|
| FY2000  |     |           |                  |                |                 |               |   |            |                        |                      |                           |
| LOCKHEED MARTIN AERONAUTICS COMPANY--AIRFRAME--FT WORTH, TX | 10  | 15.387    | Ft Worth, TX     |                | SS              | FFP           | LOCKHEED MARTIN AERONAUTICS COMPANY--AIRFRAME--FT WORTH, TX | Apr-00     | Apr-02                 | No                   | Apr-00                    |
| GENERAL ELECTRIC-PROPULSION                                 | 10  | 3.820     | GE, Evendale, OH |                | C               | FFP           | GENERAL ELECTRIC-PROPULSION, G.E. Evendale, OH              | Dec-99     | Dec-00                 | Yes                  |                           |
| FY2001  |     |           |                  |                |                 |               |   |            |                        |                      |                           |
| LOCKHEED MARTIN AERONAUTICS COMPANY--AIRFRAME--FT WORTH, TX | 4   | 16.750    | Ft Worth, TX     |                | SS              | FFP           | LOCKHEED MARTIN AERONAUTICS COMPANY--AIRFRAME--FT WORTH, TX | Dec-00     | Oct-02                 | Yes                  |                           |
| GENERAL ELECTRIC--PROPULSION                                | 4   | 4.136     | GE, Evendale, OH |                | C               | FFP           | GENERAL ELECTRIC--PROPULSION, G.E. Evendale, OH             | Feb-01     | Feb-02                 | Yes                  |                           |

**Remarks**

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**Exhibit P-21, Production Schedule** Date: February 2002

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. 04**

**F-16 C/D (MYP)**

| PROCUREMENT YEAR | SERV  | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |     |     |     |          |          |                    |          |          |          |          |          | FISCAL YEAR 2002   |          |          |          |          |          |          |          |          |          |          |          | L A T E R |
|------------------|-------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|----------|----------|--------------------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
|                  |       |           |                            |                              | 2000             |     |     |     |          |          | CALENDAR YEAR 2001 |          |          |          |          |          | CALENDAR YEAR 2002 |          |          |          |          |          |          |          |          |          |          |          |           |
|                  |       |           |                            |                              | OCT              | NOV | DEC | JAN | FEB      | MAR      | APR                | MAY      | JUN      | JUL      | AUG      | SEP      | OCT                | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      |           |
| 2001             | BAHRN | 10        | 8                          | 2                            | 2                |     |     |     |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          |          | 0        |          |           |
| 2001             | EGYPT | 24        | 0                          | 24                           |                  |     |     |     | 1        | 1        | 1                  | 1        | 1        | 2        | 2        | 2        | 2                  | 2        | 2        | 2        | 2        | 1        |          |          |          |          | 0        |          |           |
| 1999             | USAF  | 1         | 0                          | 1                            |                  |     |     |     |          |          |                    | 1        |          |          |          |          |                    |          |          |          |          |          |          |          |          | 0        |          |          |           |
| 2000             | USAF  | 10        | 0                          | 10                           |                  |     |     |     |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          | 1        | 2        | 2        | 2        | 1        | 2        |           |
| 2001             | USAF  | 4         | 0                          | 4                            |                  |     |     |     |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 4        |          |          |           |
| 2002             | USAF  | 0         | 0                          | 0                            |                  |     |     |     |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 0        |          |          |           |
| 2003             | USAF  | 0         | 0                          | 0                            |                  |     |     |     |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 0        |          |          |           |
| 2004             | USAF  | 8         | 0                          | 8                            |                  |     |     |     |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 8        |          |          |           |
| 2005             | USAF  | 8         | 0                          | 8                            |                  |     |     |     |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 8        |          |          |           |
| <b>TOTAL</b>     |       | <b>65</b> | <b>8</b>                   | <b>57</b>                    | <b>2</b>         |     |     |     | <b>1</b> | <b>1</b> | <b>1</b>           | <b>1</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>2</b>           | <b>2</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>1</b> | <b>1</b> | <b>2</b> | <b>2</b> | <b>2</b> | <b>1</b> | <b>2</b> |           |

| ITEM/MANUFACTURER'S NAME | LOCATION       | PRODUCTION RATES |                  |       | REACHED D+      | PROCUREMENT LEAD TIME |  |          |    | TOTAL AFTER 1 OCT |
|--------------------------|----------------|------------------|------------------|-------|-----------------|-----------------------|--|----------|----|-------------------|
|                          |                | MIN SUST         | SHIFT HOURS DAYS | M A X |                 | ADMIN LEAD TIME       |  | MFG TIME |    |                   |
|                          |                |                  |                  |       | PRIOR 1 OCT     | AFTER 1 OCT           |  |          |    |                   |
| Lockheed Martin          | Fort Worth, TX | 4                | 1-8-5            | 2     | 3               | 3                     |  | 35       | 38 |                   |
|                          |                |                  |                  |       | INITIAL REORDER | 5                     |  | 34       | 29 |                   |

REMARKS  
PROJECTED FMS BUYS: CHILE 10 AIRCRAFT

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**Exhibit P-21, Production Schedule** Date: February 2002

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. 04** **F-16 C/D (MYP)**

| PROCUREMENT YEAR | SERV  | PROC. QTY  | ACCEP. PRIOR TO 1 OCT 2002 | BALANCE DUE AS OF 1 OCT 2002 | FISCAL YEAR 2003 |          |          |          |          |          |                    |          |          |          |          |          | FISCAL YEAR 2004   |          |          |          |          |          |          |          |          |          |          |          | L A T E R |
|------------------|-------|------------|----------------------------|------------------------------|------------------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
|                  |       |            |                            |                              | 2002             |          |          |          |          |          | CALENDAR YEAR 2003 |          |          |          |          |          | CALENDAR YEAR 2004 |          |          |          |          |          |          |          |          |          |          |          |           |
|                  |       |            |                            |                              | OCT              | NOV      | DEC      | JAN      | FEB      | MAR      | APR                | MAY      | JUN      | JUL      | AUG      | SEP      | OCT                | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      |           |
| 2004             | GREC  | 50         | 0                          | 50                           | 1                | 1        | 1        | 2        | 4        | 4        | 6                  | 6        | 6        | 5        | 4        | 5        | 4                  | 2        | 1        |          |          |          |          |          |          |          | 0        |          |           |
| 2003             | ISR   | 50         | 0                          | 50                           |                  |          |          |          |          | 1        |                    |          |          | 2        | 1        | 2        | 1                  | 2        | 1        | 2        | 1        | 2        | 1        | 2        | 1        | 2        | 25       |          |           |
| 2003             | KOREA | 20         | 0                          | 20                           |                  |          |          |          |          |          |                    |          |          | 1        | 2        | 1        | 2                  | 1        | 2        | 1        | 2        | 1        | 2        | 1        | 1        | 0        |          |          |           |
| 2002             | SING  | 20         | 0                          | 20                           |                  |          |          |          |          |          |                    |          |          |          | 1        | 1        | 1                  | 1        | 1        | 3        | 1        | 2        | 1        | 1        | 3        | 2        | 3        |          |           |
| 2004             | UAE   | 80         | 0                          | 80                           |                  |          |          |          |          |          |                    |          |          |          |          |          | 1                  |          |          | 1        | 1        | 2        | 2        | 3        | 3        | 62       |          |          |           |
| 2001             | USAF  | 4          | 0                          | 4                            | 1                | 1        | 1        | 1        |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 0        |          |          |           |
| 2002             | USAF  | 0          | 0                          | 0                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 0        |          |          |           |
| 2003             | USAF  | 0          | 0                          | 0                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 0        |          |          |           |
| 2004             | USAF  | 6          | 0                          | 6                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 6        |          |          |           |
| 2005             | USAF  | 6          | 0                          | 6                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 6        |          |          |           |
| <b>TOTAL</b>     |       | <b>236</b> | <b>0</b>                   | <b>236</b>                   | <b>2</b>         | <b>2</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b>           | <b>6</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>7</b> | <b>8</b>           | <b>7</b> | <b>5</b> | <b>4</b> | <b>7</b> | <b>5</b> | <b>7</b> | <b>6</b> | <b>7</b> | <b>6</b> | <b>8</b> | <b>6</b> |           |

|  |  |  |  |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--|--|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |  |  |  |  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|--|--|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| ITEM/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 |          |                   |  |  |  |  |  |
| Lockheed Martin          |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |  |
|                          |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |  |
|                          |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |  |
|                          |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |  |

REMARKS

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**Exhibit P-21, Production Schedule** Date: February 2002

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. 04**

**F-16 C/D (MYP)**

| 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 |  |  |  |  |
|--------------------------|------|------------|----------------------------|------------------------------|-----------------------|----------|-----------------|----------|--------------------|----------|-------------|----------|----------|----------|-------------------|----------|------------------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|-----------|--|--|--|--|
|                          |      |            |                            |                              | 2004                  |          |                 |          | CALENDAR YEAR 2005 |          |             |          |          |          |                   |          |                  |          |          |          | CALENDAR YEAR 2006 |          |          |          |          |          |          |          |           |  |  |  |  |
|                          |      |            |                            |                              | O C T                 | N O V    | D E C           | J A N    | F E B              | M A R    | A P R       | M A Y    | J U N    | J U L    | A U G             | S E P    | O C T            | N O V    | D E C    | J A N    | F E B              | M A R    | A P R    | M A Y    | J U N    | J U L    | A U G    | S E P    |           |  |  |  |  |
| 2005                     | GREC | 60         | 50                         | 10                           | 1                     | 1        | 1               | 2        | 1                  | 2        | 2           | 1        |          |          |                   |          |                  |          |          |          |                    |          |          |          |          |          |          | 0        |           |  |  |  |  |
| 2005                     | ISR  | 102        | 25                         | 77                           | 1                     | 2        | 1               | 2        | 1                  | 2        | 1           | 2        | 1        | 2        | 1                 | 2        | 1                | 2        | 1        | 2        | 3                  | 1        | 2        | 1        | 2        | 1        | 2        | 1        | 40        |  |  |  |  |
| 2004                     | SING | 20         | 17                         | 3                            | 2                     | 1        |                 |          |                    |          |             |          |          |          |                   |          |                  |          |          |          |                    |          |          |          |          |          |          | 0        |           |  |  |  |  |
| 2005                     | UAE  | 80         | 18                         | 62                           |                       | 3        | 3               | 3        | 3                  | 3        | 3           | 3        | 3        | 3        | 3                 | 3        | 3                | 3        | 3        | 3        | 3                  | 3        | 3        | 3        | 3        | 3        | 2        | 0        |           |  |  |  |  |
| 2004                     | USAF | 6          | 0                          | 6                            |                       |          |                 |          |                    |          |             |          |          |          |                   |          |                  |          |          |          |                    |          |          |          |          |          |          | 6        |           |  |  |  |  |
| 2005                     | USAF | 6          | 0                          | 6                            |                       |          |                 |          |                    |          |             |          |          |          |                   |          |                  |          |          |          |                    |          |          |          |          |          |          | 6        |           |  |  |  |  |
| <b>TOTAL</b>             |      | <b>274</b> | <b>110</b>                 | <b>164</b>                   | <b>3</b>              | <b>7</b> | <b>5</b>        | <b>7</b> | <b>5</b>           | <b>7</b> | <b>6</b>    | <b>6</b> | <b>4</b> | <b>5</b> | <b>4</b>          | <b>5</b> | <b>4</b>         | <b>5</b> | <b>4</b> | <b>5</b> | <b>6</b>           | <b>4</b> | <b>5</b> | <b>4</b> | <b>5</b> | <b>3</b> | <b>2</b> | <b>1</b> | <b>52</b> |  |  |  |  |
|                          |      |            |                            |                              | 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    |           |  |  |  |  |
|                          |      |            |                            |                              | PROCUREMENT LEAD TIME |          |                 |          |                    |          |             |          |          |          |                   |          |                  |          |          |          |                    |          |          |          |          |          |          |          |           |  |  |  |  |
| ITEM/MANUFACTURER'S NAME |      | LOCATION   |                            | PRODUCTION RATES             |                       |          | REACHED D+      |          | ADMIN LEAD TIME    |          |             |          | MFG TIME |          | TOTAL AFTER 1 OCT |          |                  |          |          |          |                    |          |          |          |          |          |          |          |           |  |  |  |  |
|                          |      |            |                            | MIN                          | SHIFT                 | M        |                 |          | PRIOR 1 OCT        |          | AFTER 1 OCT |          |          |          |                   |          |                  |          |          |          |                    |          |          |          |          |          |          |          |           |  |  |  |  |
| Lockheed Martin          |      |            |                            | SUST                         | HOURS                 | A        |                 |          |                    |          |             |          |          |          |                   |          |                  |          |          |          |                    |          |          |          |          |          |          |          |           |  |  |  |  |
|                          |      |            |                            |                              | DAYS                  | X        | INITIAL REORDER |          |                    |          |             |          |          |          |                   |          |                  |          |          |          |                    |          |          |          |          |          |          |          |           |  |  |  |  |

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**UNCLASSIFIED**

**Exhibit P-21, Production Schedule** Date: February 2002

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. 04** **F-16 C/D (MYP)**

| 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 |  |  |  |
|------------------|------|------------|----------------------------|------------------------------|------------------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|------------------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|-----|-----------|--|--|--|
|                  |      |            |                            |                              | 2006             |          |          | CALENDAR YEAR 2007 |          |          |          |          |          |          |          |          |                  |          |          | CALENDAR YEAR 2008 |          |          |          |          |          |          |          |     |           |  |  |  |
|                  |      |            |                            |                              | OCT              | NOV      | DEC      | JAN                | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      | OCT              | NOV      | DEC      | JAN                | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP |           |  |  |  |
| 2005             | ISR  | 102        | 62                         | 40                           | 2                | 1        | 2        | 1                  | 2        | 1        | 2        | 1        | 2        | 1        | 2        | 1        | 2                | 1        | 2        | 1                  | 2        | 1        | 2        | 1        | 2        | 1        | 4        |     |           |  |  |  |
| 2004             | USAF | 6          | 0                          | 6                            | 2                | 2        | 2        |                    |          |          |          |          |          |          |          |          |                  |          |          |                    |          |          |          |          |          |          | 0        |     |           |  |  |  |
| 2005             | USAF | 6          | 0                          | 6                            |                  |          |          |                    |          |          |          |          |          |          |          | 2        | 2                | 2        |          |                    |          |          |          |          |          |          | 0        |     |           |  |  |  |
| <b>TOTAL</b>     |      | <b>114</b> | <b>62</b>                  | <b>52</b>                    | <b>4</b>         | <b>3</b> | <b>4</b> | <b>1</b>           | <b>2</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>4</b>         | <b>3</b> | <b>4</b> | <b>1</b>           | <b>2</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>4</b> |     |           |  |  |  |

| ITEM/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           |  |          |                   |  |  |  |  |
| Lockheed Martin          |          |                  |                  |       |             |                       |  |          |                   |  |  |  |  |
|                          |          |                  |                  |       |             |                       |  |          |                   |  |  |  |  |
|                          |          |                  |                  |       |             |                       |  |          |                   |  |  |  |  |
|                          |          |                  |                  |       |             |                       |  |          |                   |  |  |  |  |

REMARKS

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**FY 2003 BUDGET ESTIMATES**  
**BUDGET ACTIVITY 02 – AIRLIFT AIRCRAFT**  
**FEBRUARY 2002**

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 05</b> | P-1 Line Item Nomenclature<br><b>C-17A (MYP)</b> |
|--|--|

| Program Element for Code B Items: |         | N/A         |          |          | Other Related Program Elements: |          |          |          | N/A      |  |         |          |
|-----------------------------------|---------|-------------|----------|----------|---------------------------------|----------|----------|----------|----------|--|---------|----------|
|                                   | ID Code | Prior Years | FY 2001  | FY 2002  | FY 2003                         | FY 2004  | FY 2005  | FY 2006  | FY 2007  |  | To Comp | Total    |
| Proc Qty                          | A       | 85          | 12       | 15       | 12                              | 10       | 11       | 12       | 14       |  | 9       | 180      |
| Cost (\$ M)                       |         | 18268.100   | 2616.440 | 2799.487 | 2694.140                        | 2099.829 | 2018.398 | 1776.533 | 1617.642 |  | TBD     | TBD      |
| Interim Ctr Support (\$ M )       |         | 307.000     | 0.000    | 481.763  | 612.452                         | 775.613  | 789.918  | 770.467  | 662.674  |  | TBD     | TBD      |
| Advance Proc Cost (\$ M )         |         | 2229.849    | 257.233  | 371.000  | 391.890                         | 525.400  | 802.900  | 1066.400 | 979.000  |  | 0.000   | 6623.672 |
| Weapon System Cost (\$ M)         |         | 20804.949   | 2873.673 | 3652.250 | 3698.482                        | 3400.842 | 3611.216 | 3613.400 | 3259.316 |  | TBD     | TBD      |
| Initial Spares (\$ M)             |         | 803.851     | 0.000    | 0.000    | 0.000                           | 0.000    | 0.000    | 0.000    | 0.000    |  | 0.000   | 803.851  |
| Total Proc Cost (\$ M)            |         | 21608.800   | 2873.673 | 3652.250 | 3698.482                        | 3400.842 | 3611.216 | 3613.400 | 3259.316 |  | TBD     | TBD      |
| Flyaway Unit Cost (\$ M)          |         | 271.228     | 203.551  | 202.077  | 216.731                         | 213.145  | 209.086  | 208.304  | 199.790  |  |         |          |
| Wpn Sys Unit Cost (\$ M)          |         | 301.499     | 240.306  | 236.336  | 309.093                         | 341.614  | 329.926  | 302.655  | 234.042  |  |         |          |

**Description**

FY 03-07 budget reflects the DoD planned follow-on acquisition of 60 additional aircraft, which will provide an additional increment of needed airlift capability to meet both strategic (long range) and tactical (theater) requirements. This acquisition will be a multi-year procurement contract of six years duration. The strategy is to provide funding that sustains the production and delivery rate of 15 aircraft per year that exists in the current multi-year contract. By adjusting the advance procurement funding and the cancellation ceiling provisions, payment obligations can be met that sustains the factory at the rate of 15 aircraft per year. The result is that quantity and budget profile by year is less than the factory build profile and the lead-time from full funding to first article approaches zero. Note that the funding profile for FY03 - FY08 is 4-10-11-12-14-9 while deliveries remain at the planned minimum economic production rate of 15 per year.

During FY03 the Air Force will also ensure continued evaluation of commercial C-17 Civil Reserve Air Fleet (CRAF) applications and feasibility. The Air Force will also evaluate business cases for implementation of airlift service agreements with commercial providers. If the potential business case meets established financial goals for the program and the required congressional authority is provided, the Air Force will implement commercial airlift services agreements.

The Advance Procurement funds appropriated for this multiyear contract will be used to procure EOQ and long-lead components, parts, and materials, and fabricate and assemble the C-17 aircraft in order to capitalize on economic purchases and maintain efficient production rates.

**FY 2003 Program Justification**

This reflects the seventh and last year of the original C-17 multiyear procurement (MYP) acquisition contract. Eight of the twelve aircraft are being procured under this MYP contract. The remaining four aircraft will be part of a new sixty (60) aircraft multiyear buy of C-17 aircraft.

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| Exhibit P-5, Weapon System Cost Analysis   |               |                                   |           |              |         |           | Date: February 2002        |         |           |            |  |
|--|---------------|-----------------------------------|-----------|--------------|---------|-----------|----------------------------|---------|-----------|------------|--|
| 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. 05 |               |                                   |           |              |         |           | C-17A (MYP)                |         |           |            |  |
| Manufacturer's Name/Plant City/State Location                                      |               |                                   |           | Subline Item |         |           |                            |         |           |            |  |
| Boeing Airlift and Tankers / Long Beach, CA  |               |                                   |           |              |         |           |                            |         |           |            |  |
| Weapon System<br>Cost Elements   | Ident<br>Code | Total Cost In Millions of Dollars |           |              |         |           |                            |         |           |            |  |
|  |               | FY 2001                           |           |              | FY 2002 |           |                            | FY 2003 |           |            |  |
|  |               | Qty                               | Unit Cost | Total Cost   | Qty     | Unit Cost | Total Cost                 | Qty     | Unit Cost | Total Cost |  |
| 1.0 Airframe   | A             | 12                                | 170.558   | 2046.700     | 15      | 168.267   | 2524.000                   | 12      | 174.242   | 2090.900   |  |
| 2.0 Engine (4) (Model F-117-PW-100)  | A             | 48                                | 5.142     | 246.793      | 60      | 5.192     | 311.500                    | 48      | 6.819     | 327.300    |  |
| 3.0 Avionics   | A             | 12                                | 5.875     | 70.495       | 15      | 6.224     | 93.361                     | 12      | 6.195     | 74.340     |  |
| 4.0 Engineering Change Orders (ECO)  | A             |                                   |           | 0.000        |         |           | 0.000                      |         |           | 0.000      |  |
| 5.0 Product Improvement  | A             | 12                                | 1.700     | 20.400       | 15      | 2.640     | 39.600                     | 12      | 8.892     | 106.700    |  |
| 6.0 Nonrecurring Flyaway   | A             |                                   |           | 0.000        |         |           | 0.000                      |         |           | 0.000      |  |
| 7.0 Settlement   | A             |                                   |           | 50.000       |         |           | 0.000                      |         |           | 0.000      |  |
| 8.0 Flyaway Cost Subtotal (1 thru 7)   | A             |                                   |           | 2434.388     |         |           | 2968.461                   |         |           | 2599.240   |  |
| 9.0 Peculiar Support Equipment   | A             |                                   |           | 7.300        |         |           | 32.000                     |         |           | 36.600     |  |
| 10.0 Common Support Equipment  | A             |                                   |           | 6.000        |         |           | 17.000                     |         |           | 14.600     |  |
| 11.0 Training  | A             |                                   |           | 89.500       |         |           | 61.900                     |         |           | 157.000    |  |
| 12.0 Data  | A             |                                   |           | 0.597        |         |           | 0.760                      |         |           | 0.600      |  |
| 13.0 Field Support   | A             |                                   |           | 0.000        |         |           | 0.000                      |         |           | 0.000      |  |
| 14.0 Flex Sustainment (See below - Other P-1 Weap                                  | A             |                                   |           | 0.000        |         |           | 0.000                      |         |           | 0.000      |  |
| 15.0 Whole Engine Spares   | A             |                                   |           | 0.000        |         |           | 18.100                     |         |           | 92.200     |  |
| 16.0 Mission Support   | A             |                                   |           | 15.600       |         |           | 14.200                     |         |           | 14.000     |  |
| 17.0 Support Cost Subtotal (9 thru 16)   | A             |                                   |           | 118.997      |         |           | 143.960                    |         |           | 315.000    |  |
| 18.0 Gross P-1 Cost (8 + 17)   | A             | 12                                |           | 2553.385     | 15      |           | 3112.421                   | 12      |           | 2914.240   |  |
| 19.1 LESS: Prior Year Adv Procurement  | A             |                                   |           | -303.300     |         |           | -257.233                   |         |           | -190.100   |  |
| 19.2 LESS: EOQ Payback   | A             |                                   |           | -45.000      |         |           | -56.000                    |         |           | -30.000    |  |
| 20.0 Net P-1 Cost (18 + 19)  | A             |                                   |           | 2205.085     |         |           | 2799.188                   |         |           | 2694.140   |  |
| 21.1 Advance Procurement, Current Year   | A             |                                   |           | 257.233      |         |           | 190.100                    |         |           | 180.100    |  |
| 21.2 EOQ, Current Year   | A             |                                   |           | 0.000        |         |           | 180.900                    |         |           | 211.800    |  |
| Other P-1 Weapon System Costs  | A             |                                   |           |              |         |           |                            |         |           |            |  |
| 22.1 ICS (BP10 1050; FY00 thru To Complete)  | A             |                                   |           | 411.293      |         |           | 481.800                    |         |           | 612.500    |  |
| 22.2 Initial Spares (BP16)   | A             |                                   |           |              |         |           |                            |         |           |            |  |

P-1 Shopping List Item No. 05

Weapon System Cost Analysis

Exhibit P-5, page 2 of 16

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 05</b> | P-1 Line Item Nomenclature<br><b>C-17A (MYP)</b> |
|--|--|

|               |  |  |  |  |          |  |  |          |  |  |          |
|---------------|--|--|--|--|----------|--|--|----------|--|--|----------|
| TOTAL PROGRAM |  |  |  |  | 2873.611 |  |  | 3651.988 |  |  | 3698.540 |
|---------------|--|--|--|--|----------|--|--|----------|--|--|----------|

**Comments**

Candidate FY03 Lot XV Major Production Incorporations: Army Communication Requirements (SECOMP-1), Extraction Parachute Jettison System, Software Block 16 Upgrade, OBIGGS II, Wheel Brake Retrofit, Parts Obsolescence, Knowledge Based Fault Isolation Tester, MTS - non-PE/PI - Technical Order Changes, MTS - Electrical Production Improvement Project (EPIP), Aircraft Wireless Intercom System (AWIS), Lower Cross Shaft Redesign, Forward Trunnion Redesign, and Stabilizer Struts Phase I & II, and ATS Cargo Compartment Trainer (CCT2).

\*Modifications (BP11) dollars (\$96.236M in FY01, \$105.908M in FY02, and \$93.9M in FY03) are not included in the P-5 data. See P-3 exhibits for BP11 details.

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| <b>Exhibit P-5A, Procurement History and Planning</b>  | Date: February 2002                              |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 05</b> | P-1 Line Item Nomenclature<br><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 1999              |     |           |                 |                |                 |               |  |            |                        |                      |                           |
| Air Vehicle          | 13  | 180.508   | AFMC/ASC        |                | SS              | FFP           | Boeing - Airlift and Tankers, Long Beach, CA | Dec-98     | Jun-00                 |                      |                           |
| Propulsion           | 52  | 4.786     | AFMC/ASC        |                | SS              | FFP           | Pratt & Whitney, East Hartford, CT           | Dec-98     | Jul-99                 |                      |                           |
| FY 2000              |     |           |                 |                |                 |               |  |            |                        |                      |                           |
| Air Vehicle          | 15  | 171.398   | AFMC/ASC        |                | SS              | FFP           | Boeing - Airlift and Tankers, Long Beach, CA | May-00     | Jul-01                 |                      |                           |
| Propulsion           | 60  | 4.923     | AFMC/ASC        |                | SS              | FFP           | Pratt & Whitney, East Hartford, CT           | Oct-99     | Jul-00                 |                      |                           |
| FY 2001              |     |           |                 |                |                 |               |  |            |                        |                      |                           |
| Air Vehicle          | 12  | 176.724   | AFMC/ASC        |                | SS              | FFP           | Boeing - Airlift and Tankers, Long Beach, CA | Feb-01     | Aug-02                 |                      |                           |
| Propulsion           | 48  | 5.142     | AFMC/ASC        |                | SS              | FFP           | Pratt & Whitney, East Hartford, CT           | Dec-00     | Sep-01                 |                      |                           |
| FY 2002              |     |           |                 |                |                 |               |  |            |                        |                      |                           |
| Air Vehicle          | 15  | 176.482   | AFMC/ASC        |                | SS              | FFP           | Boeing - Airlift and Tankers, Long Beach, CA | Mar-02     | Aug-03                 |                      |                           |
| Propulsion           | 60  | 5.192     | AFMC/ASC        |                | SS              | FFP           | Pratt & Whitney, East Hartford, CT           | Nov-01     | Jul-02                 |                      |                           |
| FY 2003              |     |           |                 |                |                 |               |  |            |                        |                      |                           |
| Air Vehicle          | 12  | 173.263   | AFMC/ASC        |                | SS              | FFP           | Boeing - Airlift and Tankers, Long Beach, CA | Jan-03     |                        |                      |                           |
| Propulsion           | 48  | 6.908     | AFMC/ASC        |                | SS              | FFP           | Pratt & Whitney, East Hartford, CT           | Nov-02     |                        |                      |                           |

P-1 Shopping List Item No. 05

Procurement History and Planning  
Exhibit P-5A, page 4 of 16

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| <b>Exhibit P-5A, Procurement History and Planning</b>   | Date: February 2002  |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 05</b>  | P-1 Line Item Nomenclature<br><b>C-17A (MYP)</b>               |
| <b>Remarks</b>  |  |
| <p>-- Air Vehicle Unit Cost is total of Airframe and Avionics unit costs from P-5 Exhibit which includes both Contractor and Government Furnished Equipment.</p> <p>-- 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.</p> <p>-- 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.</p> <p>-- The Propulsion Contract Type is Firm Fixed Price with Escalation.</p> |  |
|   |  |
| P-1 Shopping List Item No. 05   | Procurement History and Planning<br>Exhibit P-5A, page 5 of 16 |

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**Exhibit P-21, Production Schedule** Date: February 2002

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. 05** **C-17A (MYP)**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |          |          |          |          |          |                    |          |          |          |          |          | FISCAL YEAR 2002   |     |          |          |          |          |          |          |          |          |          |           | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|--------------------|-----|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|
|                  |      |           |                            |                              | 2000             |          |          |          |          |          | CALENDAR YEAR 2001 |          |          |          |          |          | CALENDAR YEAR 2002 |     |          |          |          |          |          |          |          |          |          |           |           |
|                  |      |           |                            |                              | OCT              | NOV      | DEC      | JAN      | FEB      | MAR      | APR                | MAY      | JUN      | JUL      | AUG      | SEP      | OCT                | NOV | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP       |           |
| 1999             | USAF | 13        | 4                          | 9                            | 1                | 1        | 1        | 1        | 1        | 1        | 1                  | 1        | 1        | 1        | 1        | 1        | 1                  | 1   | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 0        |          |           |           |
| 2000             | USAF | 15        | 0                          | 15                           |                  |          |          |          |          |          |                    |          |          | 1        | 1        | 1        | 1                  | 2   |          | 1        | 1        | 2        | 1        | 1        | 1        | 2        | 0        |           |           |
| 2001             | USAF | 12        | 0                          | 12                           |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |     |          |          |          |          |          |          | 1        | 1        | 10       |           |           |
| 2002             | USAF | 15        | 0                          | 15                           |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |     |          |          |          |          |          |          |          |          | 15       |           |           |
| 2003             | USAF | 8         | 0                          | 8                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |     |          |          |          |          |          |          |          |          | 8        |           |           |
| <b>TOTAL</b>     |      | <b>63</b> | <b>4</b>                   | <b>59</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>1</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>2</b>           |     | <b>1</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>1</b> | <b>33</b> |           |

| ITEM/MANUFACTURER'S NAME      | LOCATION       | PRODUCTION RATES |             |       | REACHED D+      | PROCUREMENT LEAD TIME |             |          |                   |
|-------------------------------|----------------|------------------|-------------|-------|-----------------|-----------------------|-------------|----------|-------------------|
|                               |                | MIN SUST         | SHIFT HOURS | M A X |                 | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |
| C-17A / Boeing (Lots 11 - 15) | Long Beach, CA | 6                | 1/8/5       | 15    |                 | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |
|                               |                |                  |             |       | INITIAL REORDER |                       | 4           | 32       |                   |

**REMARKS**  
 FY03-FY07 reflect the follow-on buy of 60 C-17 aircraft.  
 The forecast delivery dates reflect the MYP contract dates. Actual deliveries have been earlier.  
 A commercial lease arrangement between the United Kingdom (UK) and Boeing resulted in the lease of four C-17 aircraft to the UK. The forecasted deliveries, which are not included in the delivery schedule above, are Jun, Jul, Aug and Sep 2001.

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**Exhibit P-21, Production Schedule** Date: February 2002

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. 05** **C-17A (MYP)**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2002 | BALANCE DUE AS OF 1 OCT 2002 | FISCAL YEAR 2003 |          |          |          |          |          |                    |          |          |          |          |          | FISCAL YEAR 2004   |          |          |          |          |          |          |          |          |          |          |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----|-----------|
|                  |      |           |                            |                              | 2002             |          |          |          |          |          | CALENDAR YEAR 2003 |          |          |          |          |          | CALENDAR YEAR 2004 |          |          |          |          |          |          |          |          |          |          |     |           |
|                  |      |           |                            |                              | OCT              | NOV      | DEC      | JAN      | FEB      | MAR      | APR                | MAY      | JUN      | JUL      | AUG      | SEP      | OCT                | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP |           |
| 2001             | USAF | 12        | 2                          | 10                           | 1                | 2        | 1        | 1        | 1        | 2        | 1                  | 1        |          |          |          |          |                    |          |          |          |          |          |          |          |          |          | 0        |     |           |
| 2002             | USAF | 15        | 0                          | 15                           |                  |          |          |          |          |          |                    |          | 1        | 2        | 1        | 1        | 1                  | 2        | 1        | 1        | 1        | 2        | 1        | 1        |          |          | 0        |     |           |
| 2003             | USAF | 8         | 0                          | 8                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          | 1        | 2        | 1        | 1        | 3        |     |           |
| <b>TOTAL</b>     |      | <b>35</b> | <b>2</b>                   | <b>33</b>                    | <b>1</b>         | <b>2</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>2</b> | <b>1</b>           | <b>1</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>1</b> | <b>1</b>           | <b>2</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>2</b> | <b>3</b> |     |           |

| ITEM/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 |          |                   |  |  |  |  |  |
| C-17A / Boeing (Lots 11 - 15) |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |  |
|                               |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |  |
|                               |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |  |
|                               |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |  |

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 05</b> | P-1 Line Item Nomenclature<br><b>C-17A (MYP)</b> |
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| 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<br>A<br>T<br>E<br>R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|
|                  |      |           |                            |                              | 2004             |             |             |             |             |             | CALENDAR YEAR 2005 |             |             |             |             |             | CALENDAR YEAR 2006 |             |             |             |             |             |             |             |             |             |             |             |                       |
|                  |      |           |                            |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R        | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |                       |
| 2003             | USAF | 8         | 4                          | 4                            | 1                | 2           |             |             |             |             |                    |             |             |             |             |             |                    |             |             |             |             |             |             |             |             | 1           |             |             |                       |
| <b>TOTAL</b>     |      | <b>8</b>  | <b>4</b>                   | <b>4</b>                     | <b>1</b>         | <b>2</b>    |             |             |             |             |                    |             |             |             |             |             |                    |             |             |             |             |             |             |             |             | <b>1</b>    |             |             |                       |
|                  |      |           |                            |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R        | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |                       |

| ITEM/MANUFACTURER'S NAME      | LOCATION | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------|----------|------------------|-------------|-------|------------|-----------------------|-------------|----------|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                               |          | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                               |          |                  |             |       |            | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C-17A / Boeing (Lots 11 - 15) |          |                  |             |       |            |                       |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| INITIAL REORDER               |          |                  |             |       |            |                       |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

REMARKS



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**Exhibit P-21, Production Schedule** Date: February 2002

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. 05** **C-17A (MYP)**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |     |     |     |     |                    |     |     |     |     |     |     | FISCAL YEAR 2002   |     |     |     |     |     |     |     |     |           |     |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----|-----|-----------|
|                  |      |           |                            |                              | 2000             |     |     |     |     | CALENDAR YEAR 2001 |     |     |     |     |     |     | CALENDAR YEAR 2002 |     |     |     |     |     |     |     |     |           |     |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR                | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL       | AUG | SEP |           |
| 2003             | USAF | 4         | 0                          | 4                            |                  |     |     |     |     |                    |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 4         |     |     |           |
| 2004             | USAF | 10        | 0                          | 10                           |                  |     |     |     |     |                    |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 10        |     |     |           |
| 2005             | USAF | 11        | 0                          | 11                           |                  |     |     |     |     |                    |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 11        |     |     |           |
| 2006             | USAF | 12        | 0                          | 12                           |                  |     |     |     |     |                    |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 12        |     |     |           |
| 2007             | USAF | 14        | 0                          | 14                           |                  |     |     |     |     |                    |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 14        |     |     |           |
| 2008             | USAF | 9         | 0                          | 9                            |                  |     |     |     |     |                    |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 9         |     |     |           |
| <b>TOTAL</b>     |      | <b>60</b> | <b>0</b>                   | <b>60</b>                    |                  |     |     |     |     |                    |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | <b>60</b> |     |     |           |

| ITEM/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           |  |          |                   |
| Additional C-17 Aircraft / Boeing | Long Beach, CA | 6                | 1/8/5            | 15    |                 |                       |  |          |                   |
|                                   |                |                  |                  |       | INITIAL REORDER | 4                     |  | 32       |                   |

**REMARKS**  
 FY03-FY07 reflect the follow-on buy of 60 C-17 aircraft.  
 The forecast delivery dates for the additional 60 aircraft are only projected dates; these aircraft have not been placed on contract.

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 05</b> | P-1 Line Item Nomenclature<br><b>C-17A (MYP)</b> |
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| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2002 | BALANCE DUE AS OF 1 OCT 2002 | FISCAL YEAR 2003 |     |     |       |                    |     |     |     |     |     |     |     | FISCAL YEAR 2004   |     |     |     |     |     |     |     |     |     |           |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-------|--------------------|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----|-----------|
|                  |      |           |                            |                              | 2002             |     |     |       | CALENDAR YEAR 2003 |     |     |     |     |     |     |     | CALENDAR YEAR 2004 |     |     |     |     |     |     |     |     |     |           |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | TOTAL | JAN                | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP                | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL       | AUG |           |
| 2003             | USAF | 4         | 0                          | 4                            |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 3         |     |           |
| 2004             | USAF | 10        | 0                          | 10                           |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 10        |     |           |
| 2005             | USAF | 11        | 0                          | 11                           |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 11        |     |           |
| 2006             | USAF | 12        | 0                          | 12                           |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 12        |     |           |
| 2007             | USAF | 14        | 0                          | 14                           |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 14        |     |           |
| 2008             | USAF | 9         | 0                          | 9                            |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 9         |     |           |
| <b>TOTAL</b>     |      | <b>60</b> | <b>0</b>                   | <b>60</b>                    |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | <b>59</b> |     |           |

| ITEM/MANUFACTURER'S NAME          | LOCATION | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |             |  |  |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------|----------|------------------|-------------|-------|------------|-----------------------|-------------|--|--|----------|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                                   |          | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |             |  |  | MFG TIME | TOTAL AFTER 1 OCT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |          |                  |             |       |            | PRIOR 1 OCT           | AFTER 1 OCT |  |  |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Additional C-17 Aircraft / Boeing |          |                  |             |       |            |                       |             |  |  |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |          |                  |             |       |            |                       |             |  |  |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |          |                  |             |       |            |                       |             |  |  |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

REMARKS

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 05</b> | P-1 Line Item Nomenclature<br><b>C-17A (MYP)</b> |
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| 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 |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----|-----|-----------|
|                  |      |           |                            |                              | 2004             |          |          | CALENDAR YEAR 2005 |          |          |          |          |          |          |          |          | CALENDAR YEAR 2006 |          |          |          |          |          |          |          |          |           |     |     |           |
|                  |      |           |                            |                              | OCT              | NOV      | DEC      | JAN                | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      | OCT                | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL       | AUG | SEP |           |
| 2003             | USAF | 4         | 1                          | 3                            | 1                | 2        |          |                    |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 0         |     |     |           |
| 2004             | USAF | 10        | 0                          | 10                           |                  |          | 1        | 1                  | 1        | 2        | 1        | 1        | 2        | 1        |          |          |                    |          |          |          |          |          |          |          |          | 0         |     |     |           |
| 2005             | USAF | 11        | 0                          | 11                           |                  |          |          |                    |          |          |          |          |          | 1        | 2        | 1        | 1                  | 1        | 1        | 2        | 1        | 1        |          |          |          | 0         |     |     |           |
| 2006             | USAF | 12        | 0                          | 12                           |                  |          |          |                    |          |          |          |          |          |          |          |          |                    |          |          |          | 2        | 1        | 1        | 2        | 1        | 5         |     |     |           |
| 2007             | USAF | 14        | 0                          | 14                           |                  |          |          |                    |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 14        |     |     |           |
| 2008             | USAF | 9         | 0                          | 9                            |                  |          |          |                    |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 9         |     |     |           |
| <b>TOTAL</b>     |      | <b>60</b> | <b>1</b>                   | <b>59</b>                    | <b>1</b>         | <b>2</b> | <b>1</b> | <b>1</b>           | <b>1</b> | <b>2</b> | <b>1</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>1</b> | <b>2</b> | <b>1</b>           | <b>1</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>1</b> | <b>28</b> |     |     |           |

| ITEM/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 |  |  |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Additional C-17 Aircraft / Boeing |          |                  |                  |       |            |                       |             |  |  |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |          |                  |                  |       |            |                       |             |  |  |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                   |          |                  |                  |       |            |                       |             |  |  |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 05</b> | P-1 Line Item Nomenclature<br><b>C-17A (MYP)</b> |
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| PROCUREMENT YEAR                  | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2006 | BALANCE DUE AS OF 1 OCT 2006 | FISCAL YEAR 2007 |                       |          |          |          |                   |                    |          |          |          |          |          | FISCAL YEAR 2008   |          |          |          |          |          |          |          |          |          |   |          | LATR |
|-----------------------------------|------|-----------|----------------------------|------------------------------|------------------|-----------------------|----------|----------|----------|-------------------|--------------------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---|----------|------|
|                                   |      |           |                            |                              | 2006             |                       |          |          |          |                   | CALENDAR YEAR 2007 |          |          |          |          |          | CALENDAR YEAR 2008 |          |          |          |          |          |          |          |          |          |   |          |      |
|                                   |      |           |                            |                              | OCT              | NOV                   | DEC      | JAN      | FEB      | MAR               | A                  | M        | J        | J        | A        | S        | O                  | N        | D        | J        | F        | M        | A        | M        | J        | J        | A | S        |      |
| 2005                              | USAF | 11        | 11                         | 0                            |                  |                       |          |          |          |                   |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          |          |   |          | 0    |
| 2006                              | USAF | 12        | 7                          | 5                            | 1                | 1                     | 1        | 2        |          |                   |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          |          |   |          | 0    |
| 2007                              | USAF | 14        | 0                          | 14                           |                  |                       |          |          | 1        | 1                 | 2                  | 1        | 1        | 2        | 1        | 1        | 2                  | 1        | 1        |          |          |          |          |          |          |          |   |          | 0    |
| 2008                              | USAF | 9         | 0                          | 9                            |                  |                       |          |          |          |                   |                    |          |          |          |          |          |                    | 1        | 1        | 2        | 1        | 1        | 2        | 1        |          |          |   |          | 0    |
| <b>TOTAL</b>                      |      | <b>46</b> | <b>18</b>                  | <b>28</b>                    | <b>1</b>         | <b>1</b>              | <b>1</b> | <b>2</b> | <b>1</b> | <b>1</b>          | <b>2</b>           | <b>1</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>1</b> | <b>2</b>           | <b>1</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>2</b> | <b>1</b> | <b>1</b> | <b>2</b> | <b>1</b> |   | <b>0</b> |      |
|                                   |      |           |                            |                              | OCT              | NOV                   | DEC      | JAN      | FEB      | MAR               | A                  | M        | J        | J        | A        | S        | O                  | N        | D        | J        | F        | M        | A        | M        | J        | J        | A | S        |      |
|                                   |      |           |                            |                              | T                | V                     | C        | N        | B        | R                 | R                  | Y        | N        | L        | G        | P        | T                  | V        | C        | N        | B        | R        | R        | Y        | N        | L        | G | P        |      |
| ITEM/MANUFACTURER'S NAME          |      | LOCATION  | PRODUCTION RATES           |                              |                  | PROCUREMENT LEAD TIME |          |          |          |                   |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          |          |   |          |      |
|                                   |      |           | MIN SUST                   | SHIFT HOURS                  | M A X            | ADMIN LEAD TIME       |          | MFG TIME |          | TOTAL AFTER 1 OCT |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          |          |   |          |      |
| Additional C-17 Aircraft / Boeing |      |           |                            |                              |                  |                       |          |          |          |                   |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          |          |   |          |      |
|                                   |      |           |                            |                              |                  |                       |          |          |          |                   |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          |          |   |          |      |
|                                   |      |           |                            |                              |                  | INITIAL REORDER       |          |          |          |                   |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          |          |   |          |      |

REMARKS

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| <b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 05</b> | P-1 Line Item Nomenclature<br><b>C-17A (MYP)</b> |
|--|--|

**Weapon System C-17A**

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

| Fin Plan | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | Total   |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| Quantity | 2       | 2       | 7       | 7       | 3       | 0       | 0       | 21      |
| Proc     | 28.200  | 27.200  | 113.100 | 121.600 | 67.100  | 0.000   | 0.000   | 357.200 |
| Quantity | 0       | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| Proc     | 61.300  | 34.700  | 43.900  | 36.600  | 23.200  | 25.300  | 6.000   | 231.000 |

**TRAINING SYSTEM DESCRIPTION**

Aircrew Training System (ATS) (quantity of 10 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) and Air Education and Training Command (AETC) evaluating the final product, a fully qualified crew member. The training system changes are developed concurrently with the aircraft development and production to include program management activities. The Aircrew Training System (ATS) consists of Weapon System Trainers (WSTs), Computer Based Trainers (CBTs), Loadmaster Stations (LSs), a CIP Trainer, a Cargo Compartment Trainers (CCT), and a Cockpit Systems Simulator (CSS). The blend or mix of components depends on the base or schoolhouse where the equipment is located. The bases are Charleston AFB, Altus AFB, McChord AFB, Jackson ANGB, and other bases.

Maintenance Training System (MTS) (quantity of 11 in table above):  
 Provides maintenance training devices (MTDs) that provide capability for academic and hands-on training for C-17 maintenance technicians. The system is designed to reduce the maintenance training level to the lower skill levels. The MTS will support training and task certification for specific tasks without the use of the aircraft. Training, evaluation, and task certification is administered by Air Education and Training Command (AETC) and Air Mobility Command (AMC). MTD changes will be developed concurrently with the aircraft development and production to include program management activities.

The second procurement line in the table above reflects concurrency and software upgrade funding.

\*FY00 supplemental funding, \$14.9M for a Weapon System Trainer, is not included in FY00 funding above. It was appropriated in a special procurement appropriation, 3002, instead of 3010.

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| <b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 05</b> | P-1 Line Item Nomenclature<br><b>C-17A (MYP)</b> |
|--|--|

**Weapon System C-17A**

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

| IOC Date                                 |                |                  |                           |                                  |         |        |         |        |         |         |
|--|----------------|------------------|---------------------------|----------------------------------|---------|--------|---------|--------|---------|---------|
| TRAINING<br>DEVICE<br>BY TYPE            | SITE           | DELIVERY<br>TIME | READY<br>TRAINING<br>DATE | AVG<br>STUDENT<br>THROUGH<br>PUT | FY 2001 |        | FY 2002 |        | FY 2003 |         |
|  |                |                  |                           |                                  | QTY     | COST   | QTY     | COST   | QTY     | COST    |
| AIRCREW                                  | Charleston AFB |                  |                           |                                  |         |        |         |        |         |         |
| Cargo Compartment Trainer #2             | Altus AFB      |                  |                           |                                  |         |        |         |        | 1       | 18.300  |
| AIRCREW                                  | Altus AFB      |                  |                           |                                  |         |        |         |        |         |         |
| AIRCREW                                  | McChord AFB    |                  |                           |                                  | 1       | 13.000 |         |        |         |         |
| AIRCREW                                  | Jackson ANGB   |                  |                           |                                  | 1       | 15.200 |         |        |         |         |
| AIRCREW                                  | Base X         |                  |                           |                                  |         |        |         |        | 1       | 17.400  |
| AIRCREW                                  | Base Y         |                  |                           |                                  |         |        |         |        | 1       | 17.400  |
| AIRCREW                                  | McGuire        |                  |                           |                                  |         |        | 1       | 17.400 |         |         |
| Maintenance                              | McGuire        |                  |                           |                                  |         |        |         |        | 4       | 60.000  |
| Maintenance                              | Jackson ANGB   |                  |                           |                                  |         |        | 1       | 9.800  |         |         |
| Concurrency and Software*                |                |                  |                           |                                  |         | 61.300 |         | 34.700 |         | 43.900  |
| * Includes spares and support equipment. |                |                  |                           |                                  |         |        |         |        |         |         |
| <b>TOTAL</b>                             |                |                  |                           |                                  | 2       | 89.500 | 2       | 61.900 | 7       | 157.000 |

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| P-1 Shopping List Item No. 05 | Simulator and Training Device Justification (\$ M)<br>Exhibit P-43 p.2, page 14 of 16 |
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| <b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 05</b> | P-1 Line Item Nomenclature<br><b>C-17A (MYP)</b> |
|--|--|

**Weapon System C-17A**

**Equipment Nomenclature: Aircrew Trainers**

**Description:**

Aircrew Training System (ATS): Provides initial and continuous training to C-17 aircrews.  
 The FY00 Supplemental Bill included \$14.9M for a Weapon System Trainer and is not included in the numbers below. Appropriated in a special procurement appropriation, 3002, instead of 3010.

To complete column includes 3 WST's with loadmaster stations and 1 WST without a loadmaster station.

| FINANCIAL PLAN | FY 2001 |      | FY 2002 |      | FY 2003 |      | To Complete |      | Total Costs |      |
|----------------|---------|------|---------|------|---------|------|-------------|------|-------------|------|
|                | QTY     | COST | QTY     | COST | QTY     | COST | QTY         | COST | QTY         | COST |

|                             |          |               |          |               |          |               |          |                |           |                |
|-----------------------------|----------|---------------|----------|---------------|----------|---------------|----------|----------------|-----------|----------------|
| <b>Hardware Costs</b>       |          |               |          |               |          |               |          |                |           |                |
| Device (Hardware)           | 2        | 28.200        | 1        | 17.400        | 3        | 53.100        | 4        | 72.600         | 10        | 171.300        |
| Concurrency Updates         |          | 11.500        |          | 16.000        |          | 15.300        |          | 42.700         |           | 85.500         |
| <b>Total Hardware Costs</b> | <b>2</b> | <b>39.700</b> | <b>1</b> | <b>33.400</b> | <b>3</b> | <b>68.400</b> | <b>4</b> | <b>115.300</b> | <b>10</b> | <b>256.800</b> |

|                            |  |              |  |              |  |              |  |              |  |               |
|----------------------------|--|--------------|--|--------------|--|--------------|--|--------------|--|---------------|
| <b>Support Costs</b>       |  |              |  |              |  |              |  |              |  |               |
| Trainer Spares             |  | 5.500        |  | 1.200        |  | 1.100        |  | 6.000        |  | 13.800        |
| <b>Total Support Costs</b> |  | <b>5.500</b> |  | <b>1.200</b> |  | <b>1.100</b> |  | <b>6.000</b> |  | <b>13.800</b> |

|                    |          |               |          |               |          |               |          |                |           |                |
|--------------------|----------|---------------|----------|---------------|----------|---------------|----------|----------------|-----------|----------------|
|                    |          |               |          |               |          |               |          |                |           |                |
| <b>TOTAL COSTS</b> | <b>2</b> | <b>45.200</b> | <b>1</b> | <b>34.600</b> | <b>3</b> | <b>69.500</b> | <b>4</b> | <b>121.300</b> | <b>10</b> | <b>270.600</b> |

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**Exhibit P-43 p.4, Simulator and Training Device Justification (\$ M)** Date: February 2002

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. 05** **C-17A (MYP)**

**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.

\*Note: FY00 Defense Appropriation, 3010, (\$3.5M) and FY00 Supplemental Appropriation, 3002, (\$11.0M) plus up for MTS Device (Hardware) totaling \$14.5M is funded with C-17 Modification Funding per FY00 Congressional Language. This funding will allow for procurement of an Aircraft Maintenance System Trainer for Jackson ANGB, but will not be an entire MTS suite. This funding is not included in numbers below, see P-3A Mod# 0288 for funding and details.

| FINANCIAL PLAN | FY 2001 |      | FY 2002 |      | FY 2003 |      | To Complete |      | Total Costs |      |
|----------------|---------|------|---------|------|---------|------|-------------|------|-------------|------|
|                | QTY     | COST | QTY     | COST | QTY     | COST | QTY         | COST | QTY         | COST |

**Hardware Costs**

|                             |  |        |   |        |   |        |   |         |    |         |
|-----------------------------|--|--------|---|--------|---|--------|---|---------|----|---------|
| Device (Hardware)           |  |        | 1 | 9.800  | 4 | 60.000 | 6 | 116.100 | 11 | 185.900 |
| Concurrency Updates         |  | 41.900 |   | 12.200 |   | 25.000 |   | 48.400  |    | 127.500 |
| <b>Total Hardware Costs</b> |  | 41.900 | 1 | 22.000 | 4 | 85.000 | 6 | 164.500 | 11 | 313.400 |

**Support Costs**

|                            |  |       |  |       |  |       |  |       |  |        |
|----------------------------|--|-------|--|-------|--|-------|--|-------|--|--------|
| Support Equipment          |  | 0.000 |  | 2.500 |  | 0.500 |  | 1.000 |  | 3.500  |
| Trainer Spares             |  | 2.400 |  | 2.800 |  | 2.000 |  | 7.500 |  | 7.900  |
| <b>Total Support Costs</b> |  | 2.400 |  | 5.300 |  | 2.500 |  | 8.500 |  | 11.400 |

|                    |  |        |   |        |   |        |   |         |    |         |
|--------------------|--|--------|---|--------|---|--------|---|---------|----|---------|
| <b>TOTAL COSTS</b> |  | 44.300 | 1 | 27.300 | 4 | 87.500 | 6 | 173.000 | 11 | 324.800 |
|--------------------|--|--------|---|--------|---|--------|---|---------|----|---------|



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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 06</b> | P-1 Line Item Nomenclature<br><b>C-17 Advance Procurement</b> |
|--|---|

| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |          |         | N/A |         |          |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|----------|---------|-----|---------|----------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006  | FY 2007 |     | To Comp | Total    |
| Proc Qty                          | A       |             |         |         |                                 |         |         |          |         |     |         |          |
| Cost (\$ M)                       |         |             |         |         |                                 |         |         |          |         |     |         |          |
| Interim Ctr Support (\$ M)        |         |             |         |         |                                 |         |         |          |         |     |         |          |
| Advance Proc Cost (\$ M)          |         | 2229.800    | 257.233 | 371.000 | 391.890                         | 525.400 | 802.900 | 1066.400 | 979.000 |     | 0.000   | 6623.623 |
| Weapon System Cost (\$ M)         |         | 2229.800    | 257.233 | 371.000 | 391.890                         | 525.400 | 802.900 | 1066.400 | 979.000 |     | 0.000   | 6623.623 |
| Initial Spares (\$ M)             |         |             | 0.000   | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000    | 0.000   |     | 0.000   | 0.000    |
| Total Proc Cost (\$ M)            |         | 2229.800    | 257.233 | 371.000 | 391.890                         | 525.400 | 802.900 | 1066.400 | 979.000 |     | 0.000   | 6623.623 |
| Flyaway Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |          |         |     |         |          |
| Wpn Sys Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |          |         |     |         |          |

**Description**

FY 03-07 budget reflects the DoD planned follow-on acquisition of 60 additional aircraft, which will provide an additional increment of needed airlift capability to meet both strategic (long range) and tactical (theater) requirements. This acquisition will be a multi-year procurement contract of six years duration. The strategy is to provide funding that sustains the production and delivery rate of 15 aircraft per year that exists in the current multi-year contract. By adjusting the advance procurement funding and the cancellation ceiling provisions, payment obligations can be met that sustains the factory at the rate of 15 aircraft per year. The result is that quantity and budget profile by year is less than the factory build profile and the lead-time from full funding to first article approaches zero. Note that the funding profile for FY03 - FY08 is 4-10-11-12-14-9 while deliveries remain at the planned minimum economic production rate of 15 per year. The Advance Procurement funds appropriated for this multiyear contract will be used to procure EOQ and long-lead components, parts and materials, and fabricate and assemble the C-17 aircraft in order to capitalize on economic purchases and maintain efficient production rates.

**FY 2003 Program Justification**

FY03 advance procurement funding will provide for the CFE and GFE for ten FY04 production aircraft.

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| <b>Exhibit P-10 p.1, Advance Procurement Requirements Analysis<br/>(Page 1 - Funding)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 06</b> | P-1 Line Item Nomenclature<br><b>C-17 Advance Procurement</b> |
|--|---|

|                         |                                   |  |
|-------------------------|-----------------------------------|--|
| Weapon System<br>C-17AP | First System Award Date<br>Jan-03 | First System Completion Date<br>Jun-04 |
|-------------------------|-----------------------------------|--|

(\$ in Millions)

| Description  | PLT | When Rqd | Prior Years | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | To Comp | Total |
|--------------|-----|----------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| End Item Qty |     |          | 70          | 12      | 15      | 12      | 10      | 11      | 12      | 14      | 9       | 165   |

|     |  |  |          |         |         |         |         |         |          |         |  |          |
|-----|--|--|----------|---------|---------|---------|---------|---------|----------|---------|--|----------|
| CFE |  |  | 2051.400 | 221.100 | 177.100 | 162.490 | 338.700 | 670.800 | 1027.100 | 957.600 |  | 5606.290 |
| GFE |  |  | 178.400  | 36.133  | 13.000  | 17.600  | 27.800  | 38.500  | 39.300   | 21.400  |  | 372.133  |

|                 |  |  |                 |                |                |                |                |                |                 |                |  |                 |
|-----------------|--|--|-----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|--|-----------------|
| EOQ             |  |  |                 |                | 180.900        | 211.800        | 158.900        | 93.600         |                 |                |  | 645.200         |
| Design          |  |  |                 |                |                |                |                |                |                 |                |  |                 |
| Term Liability  |  |  |                 |                |                |                |                |                |                 |                |  |                 |
| <b>TOTAL AP</b> |  |  | <b>2229.800</b> | <b>257.233</b> | <b>371.000</b> | <b>391.890</b> | <b>525.400</b> | <b>802.900</b> | <b>1066.400</b> | <b>979.000</b> |  | <b>6623.623</b> |

**Description:**  
 The strategy is to provide funding that sustains the production and delivery rate of 15 aircraft per year that exists in the current multi-year contract. By adjusting the advance procurement funding and the cancellation ceiling provisions, payment obligations can be met that sustains the factory at the rate of 15 aircraft per year. The result is that quantity and budget profile by year is less than the factory build profile and the lead-time from full funding to first article approaches zero. Note that the funding profile for FY03 - FY08 is 4-10-11-12-14-9 while deliveries remain at the planned minimum economic production rate of 15 per year. The Advance Procurement funds appropriated for this multiyear contract will be used to procure EOQ and long-lead components, parts and materials, and fabricate and assemble the C-17 aircraft in order to capitalize on economic purchases and maintain efficient production rates.

First System Award Date reflects the planned Lot XV (FY03 aircraft buy) contract obligation date.

First System Completion Date reflects the first aircraft delivery for Lot XV (FY03 aircraft buy).

FY 2003 Program Justification  
 FY03 advance procurement funding will provide for the CFE and GFE for ten FY04 production aircraft.

|                               |   |
|-------------------------------|---|
| P-1 Shopping List Item No. 06 | <b>Advance Procurement Requirements Analysis<br/>(Page 1 - Funding)<br/>Exhibit P-10 p.1, page 2 of 3</b> |
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| <b>Exhibit P-10 p.2, Advance Procurement Requirements Analysis<br/>(Page 2 - Budget Justification)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 06</b> | P-1 Line Item Nomenclature<br><b>C-17 Advance Procurement</b> |
|--|---|

Weapon System  
C-17AP

(TOA, \$ in Millions)

| Description     | PLT | OPA | Unit Cost | 2001 QTY | 2001                         | 2001 Total      | 2002 QTY | 2002                         | 2002 Total      | 2003 QTY | 2003                         | 2003 Total      |
|-----------------|-----|-----|-----------|----------|------------------------------|-----------------|----------|------------------------------|-----------------|----------|------------------------------|-----------------|
|                 |     |     |           |          | Contract<br>Forecast<br>Date | Cost<br>Request |          | Contract<br>Forecast<br>Date | Cost<br>Request |          | Contract<br>Forecast<br>Date | Cost<br>Request |
| End Item        |     |     |           |          |                              |                 | 15       | Jan-02                       | 228.100         | 12       | Jan-03                       | 391.900         |
| CFE             |     |     |           |          |                              | 221.100         |          |                              | 177.100         |          |                              | 162.490         |
| GFE             |     |     |           |          |                              | 36.133          |          |                              | 13.000          |          |                              | 17.600          |
| EOQ             |     |     |           |          |                              |                 |          |                              | 180.900         |          |                              | 211.800         |
| Design          |     |     |           |          |                              |                 |          |                              |                 |          |                              |                 |
| Term Liability  |     |     |           |          |                              |                 |          |                              |                 |          |                              |                 |
| <b>TOTAL AP</b> |     |     |           |          |                              | 257.233         |          |                              | 371.000         |          |                              | 391.890         |

**Description:**

P-1 Shopping List Item No. 06

**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 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 07</b> | P-1 Line Item Nomenclature<br><b>C-17 ICS</b> |
|--|---|

| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         |         | N/A |          |          |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|-----|----------|----------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |     | To Comp  | Total    |
| Proc Qty                          | A       |             |         |         |                                 |         |         |         |         |     |          |          |
| Cost (\$ M)                       |         |             | 0.000   | 481.763 |                                 |         |         |         |         |     |          | 481.763  |
| Interim Ctr Support (\$ M)        |         | 307.000     | 0.000   | 481.763 | 612.452                         | 775.613 | 789.918 | 770.467 | 662.674 |     | 1048.400 | 5448.287 |
| Advance Proc Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |     |          |          |
| Weapon System Cost (\$ M)         |         | 307.000     | 0.000   | 963.526 | 612.452                         | 775.613 | 789.918 | 770.467 | 662.674 |     | 1048.400 | 5930.050 |
| Initial Spares (\$ M)             |         |             |         |         |                                 |         |         |         |         |     |          |          |
| Total Proc Cost (\$ M)            |         | 307.000     | 0.000   | 963.526 | 612.452                         | 775.613 | 789.918 | 770.467 | 662.674 |     | 1048.400 | 5930.050 |
| Flyaway Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |     |          |          |
| Wpn Sys Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |     |          |          |

**Description**

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

**FY 2003 Program Justification**

The FY03 funding provides for Interim Contractor Support (ICS) for the C-17 fleet. The C-17 Flexible Sustainment program provides ICS for the airframe, including materiel management for unique spares, a wartime surge capability, and a process to rapidly incorporate aircraft modifications. The C-17 program has awarded a single overarching contract for Flexible Sustainment to include all initial spares support. 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.

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 08</b> | P-1 Line Item Nomenclature<br><b>EC-130J</b> |
|--|--|

|                                   |         |             |         |         |                                 |         |         |         |         |        |         |         |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|--------|---------|---------|
| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         |         | 41132F |         |         |
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |        | To Comp | Total   |
| Proc Qty                          | A       | 4           | 0       | 0       | 0                               | 0       | 0       | 0       | 0       |        |         | 4       |
| Total Proc Cost (\$ M)            |         | 226.487     | 89.179  | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |        |         | 315.666 |

**Description**

NOTE: FY01 Proc Qty should be 1.

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. Eight EC-130Js will replace the eight EC-130Es (ANG) based at Harrisburg, PA.

Lockheed Martin Aero-Marietta provides the basic C-130J platform to the Air Force. Lockheed Martin Aero-Palmdale then converts the aircraft into the EC-130J configuration. All eight aircraft will receive aircraft generator and intercom upgrades, an augmented crew station, and the installation of an in-flight refueling receptacle. Six aircraft will also undergo a mission equipment integration effort which includes removing existing special mission equipment from six EC-130E Commando Solos and installing it on the new EC-130J airframes. The remaining two aircraft are referred to as EC-130J Super Js.

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

Logistics and training support for the EC-130J aircraft are included in the FY03 C-130J budget request.

**FY 2003 Program Justification**

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 08</b> | P-1 Line Item Nomenclature<br><b>EC-130J</b> |
|--|--|

|   |                                       |
|---|---------------------------------------|
| Manufacturer's Name/Plant City/State Location<br>Lockheed Martin Aero-Marietta, Marietta GA | Subline Item<br>EC-130J (BPAC 10400E) |
|---|---------------------------------------|

| Weapon System Cost Elements                       | Ident Code | Total Cost In Millions of Dollars |           |            |         |           |            |         |           |            |
|---|------------|-----------------------------------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
|   |            | FY 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|   |            | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| Airframe  | A          | 1                                 |           | 59.600     |         |           |            |         |           |            |
| Aircraft Conversion                               | A          |                                   |           | 15.750     |         |           |            |         |           |            |
| Avionics  | A          |                                   |           |            |         |           |            |         |           |            |
| Armament  | A          |                                   |           |            |         |           |            |         |           |            |
| Software  | A          |                                   |           |            |         |           |            |         |           |            |
| Other Government Furnished Equipment (GFE)        | A          |                                   |           | 0.760      |         |           |            |         |           |            |
| Engineering Change Orders (ECO)                   | A          |                                   |           |            |         |           |            |         |           |            |
| Nonrecurring Costs                                | A          |                                   |           |            |         |           |            |         |           |            |
| Other Costs                                       | A          |                                   |           |            |         |           |            |         |           |            |
| <b>FLYAWAY COST SUBTOTAL</b>                      | A          |                                   |           | 76.110     |         |           |            |         |           |            |
| Airframe Peculiar Ground Support Equipment (PGSE) | A          |                                   |           | 3.099      |         |           |            |         |           |            |
| Engine PGSE                                       | A          |                                   |           | 3.100      |         |           |            |         |           |            |
| Peculiar Training Equipment                       | A          |                                   |           |            |         |           |            |         |           |            |
| Publications/Technical Data                       | A          |                                   |           |            |         |           |            |         |           |            |
| ECOs  | A          |                                   |           |            |         |           |            |         |           |            |
| ISS   | A          |                                   |           | 5.432      |         |           |            |         |           |            |
| Other   | A          |                                   |           | 1.436      |         |           |            |         |           |            |
| <b>SUPPORT COST SUBTOTAL</b>                      | A          |                                   |           | 13.067     |         |           |            |         |           |            |
| <b>TOTAL PROGRAM</b>                              |            |                                   |           | 89.177     |         |           |            |         |           |            |

**Comments**

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| <b>Exhibit P-5A, Procurement History and Planning</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 08</b> | P-1 Line Item Nomenclature<br><b>EC-130J</b> |
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| <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   | 53.620    | WPAFB           | May-95         | C               | FFP           | Lockheed Martin Aeronautical Systems, Marietta GA | Mar-00     | Dec-01                 | Yes                  |                           |
| Lockheed Martin Aero-Marietta        | 1   | 59.600    | WPAFB           | May-00         | C               | FFP           | Lockheed Martin Aeronautical Systems, Marietta GA | Dec-00     | Nov-02                 | Yes                  |                           |

**Remarks**

All EC-130J funding has been congressionally added. The aircraft unit cost, award date, and delivery dates above are for the basic (pre-conversion) aircraft.

Of the five aircraft appropriated to date, three will be delivered in the Commando Solo configuration and two in the Super J configuration.

Lockheed Martin Aeronautical Systems became Lockheed Martin Aero-Marietta in FY 00.

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**Exhibit P-21, Production Schedule** Date: February 2002

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. 08** **EC-130J**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |     |     |     |     |     |                    |     |     |     |     |     | FISCAL YEAR 2002   |          |     |     |     |     |     |     |          |     |     |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|--------------------|----------|-----|-----|-----|-----|-----|-----|----------|-----|-----|-----|-----------|
|                  |      |           |                            |                              | 2000             |     |     |     |     |     | CALENDAR YEAR 2001 |     |     |     |     |     | CALENDAR YEAR 2002 |          |     |     |     |     |     |     |          |     |     |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV      | DEC | JAN | FEB | MAR | APR | MAY | JUN      | JUL | AUG | SEP |           |
| 2000             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    | 1        |     |     |     |     |     |     | 0        |     |     |     |           |
| 2001             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |          |     |     |     |     |     | 1   |          |     |     |     |           |
| <b>TOTAL</b>     |      | <b>2</b>  | <b>0</b>                   | <b>2</b>                     |                  |     |     |     |     |     |                    |     |     |     |     |     |                    | <b>1</b> |     |     |     |     |     |     | <b>1</b> |     |     |     |           |

| ITEM/MANUFACTURER'S NAME | LOCATION     | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |             |          |                   |
|--------------------------|--------------|------------------|-------------|-------|------------|-----------------------|-------------|----------|-------------------|
|                          |              | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |
| Lockheed Martin          | Marietta, GA |                  |             | 25    |            | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |
|                          |              |                  |             |       |            |                       |             |          |                   |
|                          |              |                  |             |       |            |                       |             |          |                   |

**REMARKS**  
 Deliveries above are for the basic aircraft from Lockheed Martin Aero-Marietta. The aircraft are then sent to Lockheed Skunkworks for EC-130J conversion.  
 Three aircraft are currently at Lockheed Martin Aero-Palmdale. The first Super J will deliver to Baltimore in Jul 02. It will be temporarily based at Baltimore until the second Super J delivers in Nov 02. Both aircraft will then be sent to Harrisburg PA for the 193rd SOW's unit conversion. The first Commando Solo will be delivered to Harrisburg in Apr 03.

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 08</b> | P-1 Line Item Nomenclature<br><b>EC-130J</b> |
|--|--|

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2002 | BALANCE DUE AS OF 1 OCT 2002 | FISCAL YEAR 2003 |          |     |                    |     |     |     |     |     |     |     |     |     |     | FISCAL YEAR 2004   |     |     |     |     |     |     |     |          |     |  |  |  |  | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|----------|-----|--|--|--|--|-----------|
|                  |      |           |                            |                              | 2002             |          |     | CALENDAR YEAR 2003 |     |     |     |     |     |     |     |     |     |     | CALENDAR YEAR 2004 |     |     |     |     |     |     |     |          |     |  |  |  |  |           |
|                  |      |           |                            |                              | OCT              | NOV      | DEC | JAN                | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC                | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG      | SEP |  |  |  |  |           |
| 2001             | USAF | 1         | 0                          | 1                            | 0                | 1        |     |                    |     |     |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |          | 0   |  |  |  |  |           |
| <b>TOTAL</b>     |      | <b>1</b>  | <b>0</b>                   | <b>1</b>                     |                  | <b>1</b> |     |                    |     |     |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     | <b>0</b> |     |  |  |  |  |           |

| ITEM/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           |  |          |                   |  |  |  |  |
| Lockheed Martin          |          |                  |                  |       |             |                       |  |          |                   |  |  |  |  |
|                          |          |                  |                  |       |             |                       |  |          |                   |  |  |  |  |
|                          |          |                  |                  |       |             |                       |  |          |                   |  |  |  |  |
| REMARKS                  |          |                  |                  |       |             |                       |  |          |                   |  |  |  |  |
|                          |          |                  |                  |       |             |                       |  |          |                   |  |  |  |  |

|         |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| REMARKS |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 09</b> | P-1 Line Item Nomenclature<br><b>C-130H</b> |
|--|---|

|                                   |         |             |         |         |                                 |         |         |         |              |         |        |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|--------------|---------|--------|
| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         | PE: 0401115F |         |        |
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007      | To Comp | Total  |
| Proc Qty                          | A       | N/A         |         |         |                                 |         |         |         |              |         | N/A    |
| Total Proc Cost (\$ M)            |         | 6.994       | 0.000   | 0.000   | 28.241                          | 0.000   | 0.000   | 0.000   | 0.000        |         | 35.235 |

**Description**

1. C-130H is for the immediate and responsive air movement and delivery of combat troops and supplies directly in objective areas through airland, extraction, airdrop or other delivery techniques. Provides air logistic support for all theater forces, including those engaged in combat operations.

2. The C-130 AMP was restructured in the FY03 APOM and has undergone a production schedule slippage to FY07. As a result of the changes in AMP, these BP10 funds are now inappropriately programmed. They should be realigned to BP11 to fund modifications that would have been completed under AMP had it actually begun production in FY02. C-130 simulators need to be upgraded to FAA Level C+ as a prerequisite to modification to C-130X configuration. Although the Traffic Alert & Collision Avoidance System (TCAS) was originally included in the AMP, it now needs to be completed separately from and in advance of AMP. This is necessary to meet the February 97 recommendation of the White House Commission on Aviation Safety and Security, implemented by CSAF directive of March 97, for all passenger and troop carrying aircraft to have TCAS prior to FY05. Proper alignment is shown below.

FY03

BP11

Simulator Upgrade            \$8.1M  
 (Prerequisite to AMP)

TCAS (20 kits)                \$10.572

**FY 2003 Program Justification**

FY03 funding is required to complete necessary modifications displaced by the restructuring of the C-130 AMP.

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 09</b> | P-1 Line Item Nomenclature<br><b>C-130H</b> |
|--|---|

|   |              |
|---|--------------|
| Manufacturer's Name/Plant City/State Location | Subline Item |
|---|--------------|

| Weapon System Cost Elements                       | Ident Code | Total Cost In Millions of Dollars |           |            |         |           |            |         |           |            |
|---|------------|-----------------------------------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
|   |            | FY 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|   |            | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| Avionics  |            |                                   |           |            |         |           |            |         |           |            |
| Armament  |            |                                   |           |            |         |           |            |         |           |            |
| Software  |            |                                   |           |            |         |           |            |         |           |            |
| Other Government Furnished Equipment (GFE)        |            |                                   |           |            |         |           |            |         |           |            |
| Engineering Change Orders (ECO)                   |            |                                   |           |            |         |           |            |         |           |            |
| Nonrecurring Costs                                |            |                                   |           |            |         |           |            |         |           |            |
| Other Costs                                       |            |                                   |           |            |         |           |            |         |           |            |
| <b>FLYAWAY COST SUBTOTAL</b>                      |            |                                   |           |            |         |           |            |         |           |            |
| Airframe Peculiar Ground Support Equipment (PGSE) |            |                                   |           |            |         |           |            |         |           |            |
| Engine PGSE                                       |            |                                   |           |            |         |           |            |         |           |            |
| Peculiar Training Equipment                       |            |                                   |           |            |         |           |            |         |           |            |
| Publications/Technical Data                       |            |                                   |           |            |         |           |            |         |           |            |
| ECOs  |            |                                   |           |            |         |           |            |         |           |            |
| Other   |            |                                   |           |            |         |           |            |         |           |            |
| <b>SUPPORT COST SUBTOTAL</b>                      |            |                                   |           |            |         |           |            |         |           |            |
|   |            |                                   |           |            |         |           |            |         |           |            |
| <b>TOTAL PROGRAM</b>                              |            |                                   |           |            |         |           |            |         |           |            |

**Comments**

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 10</b> | P-1 Line Item Nomenclature<br><b>C-130J</b> |
|--|---|

| Program Element for Code B Items: | N/A         |         |         |         | Other Related Program Elements: |         |         |         | 41132F  |         |        |  |
|-----------------------------------|-------------|---------|---------|---------|---------------------------------|---------|---------|---------|---------|---------|--------|--|
| ID Code                           | Prior Years | FY 2001 | FY 2002 | FY 2003 | FY 2004                         | FY 2005 | FY 2006 | FY 2007 |         | To Comp | Total  |  |
| Proc Qty                          | A           | 2       | 2       | 2       | 0                               | 4       | 9       | 9       | 9       | 97      | 134    |  |
| Cost (\$ M)                       |             | 164.402 | 205.406 | 159.882 | 145.923                         | 412.201 | 910.501 | 812.417 | 816.732 | TBD     | TBD    |  |
| Advance Proc Cost (\$ M )         |             | 0.000   |         |         | 30.000                          | 0.000   | 0.000   | 0.000   | 0.000   | TBD     | TBD    |  |
| Weapon System Cost (\$ M)         |             | 164.402 | 205.406 | 159.882 | 175.923                         | 412.201 | 910.501 | 812.417 | 816.732 | TBD     | TBD    |  |
| Initial Spares (\$ M)             |             | 70.169  | 0.000   | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 70.169 |  |
| Total Proc Cost (\$ M)            |             | 234.571 | 205.406 | 159.882 | 175.923                         | 412.201 | 910.501 | 812.417 | 816.732 | TBD     | TBD    |  |
| Flyaway Unit Cost (\$ M)          |             | 44.200  | 63.545  | 71.260  | 0.000                           | 68.300  | 68.659  | 72.723  | 72.739  | TBD     | TBD    |  |
| Wpn Sys Unit Cost (\$ M)          |             | 82.201  | 86.763  | 99.432  | 0.000                           | 83.901  | 79.211  | 78.862  | 81.476  | TBD     | TBD    |  |

**Description**

NOTE: \$30M in FY03 should be a separate P-1 advance procurement line item.

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.

**FY 2003 Program Justification**

Note: FY 2002 Proc Qty should read '1'. \$291.2M was added by Congress in FY 2002 in the National Guard Reserve Equipment Account (NGREA) for four C130Js. The C-130J five year option contract provides options for aircraft procurement and for spares and support via the Reengineered Supply Support Process (RSSP). This contract incorporates all supply support requirements, including all spare parts, determined by collected failure rates. The contractor provides all spare parts as a service under this contract to achieve an 86% fleet-wide mission capable rate. In FY00 the funds across the FYDP previously identified for initial spares were transferred in total to the C-130J procurement line to fund this 'spares as a service' concept, referred to as Interim Supply Support (ISS). ISS funding is shown on Exhibit P-5.

The 2003 budget provides for program management, logistics, and training support for the 37 Air Force-wide C-130J aircraft fleet. This includes 10 WC-130Js, 5 EC-130Js, and 26 C-130J/J-30s. Only the two FY96 C-130Js are included in the prior years column. Thirteen ANG C-130Js were previously procured via the NGREA and are not included in the prior years column above. Data for the WC-130Js and EC-130Js are provided in separate budget exhibits.

The Department of Defense has authorized the USAF to pursue a C-130J multiyear procurement (MYP) program in FY 2003. This plan commits the USAF to 40 C-130J-30s from FY04 to FY08 with an economic order quantity (EOQ) payment due in FY03. Lockheed will deliver these aircraft under an accelerated plan from CY 2005 to CY 2008. To prepare for these accelerated deliveries, the USAF, will procure the necessary training systems for the C-130J schoolhouse at Little Rock AFB, AR, fund required C-130J military construction projects, and fund the EOQ needed to kick off the multiyear program. These FY 2003 projects will be started in lieu of buying the two planned aircraft

P-1 Shopping List Item No. 10

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

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 10</b> | P-1 Line Item Nomenclature<br><b>C-130J</b> |
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**FY 2003 Program Justification Continued**

in FY 2003.

Lockheed and the warfighter have both agreed this is an acceptable approach in stabilizing the C-130J program.

| Aircraft     | Qty       | FY | Comment   |
|--------------|-----------|----|---|
| C-130J       | 2         | 94 | AF swapped 2 FY93 C-130H3 with ANG for these aircraft. Aircraft now in AFRC. (Funded in the NGREA)  |
| C-130J       | 2         | 96 | Included in Prior Years column above. Aircraft now in AFRC  |
| WC-130J      | 3         | 96 | AFRC  |
| C-130J       | 4         | 97 | ANG (Funded in the NGREA)   |
| WC-130J      | 4         | 97 | AFRC (One was an active duty C-130J redesignated as a WC-130J, provided to AFRC, and is included in Prior Years column on the WC-130J P-40) |
| EC-130J      | 1         | 97 | ANG   |
| C-130J       | 4         | 98 | ANG (Funded in the NGREA)   |
| WC-130J      | 2         | 98 | AFRC  |
| EC-130J      | 1         | 98 | ANG   |
| C-130J-30    | 3         | 99 | ANG (Funded in the NGREA)   |
| WC-130J      | 1         | 99 | AFRC  |
| EC-130J      | 1         | 99 | ANG   |
| EC-130J      | 1         | 00 | ANG   |
| C-130J-30    | 2         | 01 | ANG Congressional directon to base aircraft at a western states firefighting ANG unit (Channel Islands CA)                                  |
| EC-130J      | 1         | 01 | ANG   |
| C-130J-30    | 1         | 02 | AETC (Active Duty)  |
| C-130J-30    | 1         | 02 | AFRC (Funded in NGREA)  |
| C-130J-30    | 3         | 02 | ANG (Funded in NGREA)   |
| <b>TOTAL</b> | <b>37</b> |    |   |



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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 10</b> | P-1 Line Item Nomenclature<br><b>C-130J</b> |
|--|---|

|  |                                      |
|--|--------------------------------------|
| Manufacturer's Name/Plant City/State Location<br>Lockheed Martin Aero-Marietta | Subline Item<br>C-130J (BPAC 10400C) |
|--|--------------------------------------|

| Weapon System Cost Elements                        | Ident Code | Total Cost In Millions of Dollars |           |            |         |           |            |         |           |            |
|--|------------|-----------------------------------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
|  |            | FY 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|  |            | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| Airframe   | A          | 2                                 | 62.800    | 125.600    | 1       | 70.500    | 70.500     | 0       |           | 0.000      |
| Replacement C-130J aircraft for ANG C-130H2s being | A          |                                   |           |            |         |           |            |         |           |            |
| EOQ  | A          |                                   |           |            |         |           |            |         |           | 30.000     |
| Avionics   | A          |                                   |           |            |         |           |            |         |           |            |
| Armament   | A          |                                   |           |            |         |           |            |         |           |            |
| Software   | A          |                                   |           |            |         |           |            |         |           |            |
| Other Government Furnished Equipment (GFE)         | A          |                                   |           | 1.490      |         |           | 0.760      |         |           |            |
| Engineering Change Orders (ECO)                    | A          |                                   |           |            |         |           |            |         |           |            |
| Nonrecurring Costs                                 | A          |                                   |           |            |         |           |            |         |           |            |
| Other Costs  | A          |                                   |           |            |         |           |            |         |           |            |
| <b>FLYAWAY COST SUBTOTAL</b>                       | A          |                                   |           | 127.090    |         |           | 71.260     |         |           | 30.000     |
| Airframe Peculiar Ground Support Equipment (PGSE)  | A          |                                   |           | 0.498      |         |           | 0.781      |         |           | 0.649      |
| Engine PGSE  | A          |                                   |           |            |         |           |            |         |           |            |
| Peculiar Training Equipment                        | A          | 2                                 |           | 29.367     | 1       |           | 13.261     | 7       |           | 90.220     |
| Publications/Technical Data                        | A          |                                   |           | 0.509      |         |           | 0.930      |         |           | 0.957      |
| ECOs   | A          |                                   |           |            |         |           |            |         |           |            |
| ICS  | A          |                                   |           | 4.685      |         |           | 7.255      |         |           | 9.419      |
| ISS  | A          |                                   |           | 34.263     |         |           | 55.016     |         |           | 35.891     |
| Data   | A          |                                   |           | 1.206      |         |           | 2.547      |         |           | 1.379      |
| Post Delivery Support                              | A          |                                   |           | 0.732      |         |           | 3.096      |         |           | 3.583      |
| Organic Depot Support                              | A          |                                   |           |            |         |           |            |         |           |            |
| Other  | A          |                                   |           | 7.056      |         |           | 5.736      |         |           | 3.825      |
| <b>SUPPORT COST SUBTOTAL</b>                       | A          |                                   |           | 78.316     |         |           | 88.622     |         |           | 145.923    |
| Less prorated FY03 EOQ                             | A          |                                   |           |            |         |           |            |         |           |            |

P-1 Shopping List Item No. 10

**Weapon System Cost Analysis**  
Exhibit P-5, page 3 of 13

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|   |                     |
|---|---------------------|
| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 10</b> | P-1 Line Item Nomenclature<br><b>C-130J</b> |
|--|---|

|               |  |  |  |         |  |  |         |  |  |         |
|---------------|--|--|--|---------|--|--|---------|--|--|---------|
| TOTAL PROGRAM |  |  |  | 205.406 |  |  | 159.882 |  |  | 175.923 |
|---------------|--|--|--|---------|--|--|---------|--|--|---------|

**Comments**

The C-130J MYP will go on contract with a \$30M EOQ in FY03. 40 aircraft will be procured FY04-FY08. Deliveries from CY05-CY08.

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

Funds have been added in FY04 and FY05 to buy 4 C-130Js (1 in FY04, 3 in FY05) to replace 4 C-130H2s that will be taken out of the Air National Guard and converted to AC-130U Gunships.

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**Exhibit P-5A, Procurement History and Planning** Date: February 2002

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. 10** **C-130J**

**Weapon System** 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 FY96 | 2   | 44.200    | WPAFB           | May-95         | C               | FFP           | Lockheed Martin - Aero, Marietta, GA 30063-0290 | Nov-96     | Jan-99                 | Yes                  |                           |
| Lockheed Martin Aeronautical Systems FY01 | 2   | 62.800    | WPAFB           | May-00         | C               | FFP           | Lockheed Martin - Aero, Marietta, GA 30063-0290 | Dec-00     | Apr-02                 | Yes                  |                           |
| Lockheed Martin Aeronautical Systems FY02 | 1   | 70.500    | WPAFB           | May-00         | C               | FFP           | Lockheed Martin - Aero, Marietta, GA 30063-0290 |            |                        | Yes                  |                           |

**Remarks**

Air Vehicle:

- Two FY96 aircraft were the initial cadre of aircraft procured under the 1st Five Year Option Contract (FYOC). The engines are being provided as Contractor Furnished Equipment (CFE) and are included in the air vehicle price.
- The current Five Year Option Contract was awarded in Dec 00. The two FY01 aircraft were the initial orders on this contract.
- Lockheed Martin Aeronautical Systems became Lockheed Martin Aero-Marietta in FY 00.
- One FY97 Air Force active duty C-130J was designated a WC-130J and provided to AFRC.
- All combat delivery aircraft after FY99 will be procured as C-130J-30 stretch versions. .
- Planned buys: FY04-08 on a multiyear contract (3 ANG and 1 AFRC aircraft will also be procured in FY02)

|     |    |    |    |    |    |    |    |
|-----|----|----|----|----|----|----|----|
| FY  | 02 | 03 | 04 | 05 | 06 | 07 | 08 |
| QTY | 1  | 0  | 4  | 9  | 9  | 9  | 9  |

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 10</b> | P-1 Line Item Nomenclature<br><b>C-130J</b> |
|--|---|

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |       |       |       |       |       |                    |       |       |       |       |       | FISCAL YEAR 2002   |       |       |       |       |       |       |       |       |           |       |       | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|-----------|
|                  |      |           |                            |                              | 2000             |       |       |       |       |       | CALENDAR YEAR 2001 |       |       |       |       |       | CALENDAR YEAR 2002 |       |       |       |       |       |       |       |       |           |       |       |           |
|                  |      |           |                            |                              | 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 |           |
| 1996             | USAF | 2         | 2                          | 0                            |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       |       | 0         |       |       |           |
| 2001             | USAF | 2         | 0                          | 2                            |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       |       | 0         |       |       |           |
| 2002             | USAF | 1         | 0                          | 1                            |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       |       | 1         |       |       |           |
| 2003             | USAF | 0         | 0                          | 0                            |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       |       | 0         |       |       |           |
| 2004             | USAF | 4         | 0                          | 4                            |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       |       | 4         |       |       |           |
| 2005             | USAF | 9         | 0                          | 9                            |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       |       | 9         |       |       |           |
| 2006             | USAF | 9         | 0                          | 9                            |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       |       | 9         |       |       |           |
| 2007             | USAF | 9         | 0                          | 9                            |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       |       | 9         |       |       |           |
| <b>TOTAL</b>     |      | <b>36</b> | <b>2</b>                   | <b>34</b>                    |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       |       | <b>32</b> |       |       |           |

| ITEM/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 - Aero   | Marietta, GA<br>30063-0290 |                  |                  | 25    |            | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |
|                          |                            |                  |                  |       |            |                       |             |          |                   |
|                          |                            |                  |                  |       |            |                       |             |          |                   |
|                          |                            |                  |                  |       |            |                       |             |          |                   |
|                          |                            |                  |                  |       |            |                       |             |          |                   |

**REMARKS**  
The production lead time will shift from 24 months for the FY02 buy less than 12 months under the MYP plan's accelerated deliveries.

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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|   |                            |
|---|----------------------------|
| 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>C-130J</b>              |

| PROCUREMENT YEAR | S<br>E<br>R<br>V | PROC.<br>QTY | ACCEP.<br>PRIOR<br>TO<br>1 OCT<br>2002 | BALANCE<br>DUE<br>AS OF<br>1 OCT<br>2002 | FISCAL YEAR 2003   |             |             |             |             |             |             |             |             |             |             |             | FISCAL YEAR 2004   |             |             |             |             |             |             |             |             |             |             |             | L<br>A<br>T<br>E<br>R |
|------------------|------------------|--------------|--|--|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|
|                  |                  |              |  |  | CALENDAR YEAR 2003 |             |             |             |             |             |             |             |             |             |             |             | CALENDAR YEAR 2004 |             |             |             |             |             |             |             |             |             |             |             |                       |
|                  |                  |              |  |  | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |                       |
| 2002             | USAF             | 1            | 0                                      | 1  |                    |             |             |             |             |             |             |             |             |             |             |             |                    |             |             |             |             |             |             |             |             |             | 0           |             |                       |
| 2003             | USAF             | 0            | 0                                      | 0  |                    |             |             |             |             |             |             |             |             |             |             |             |                    |             |             |             |             |             |             |             |             |             |             | 0           |                       |
| 2004             | USAF             | 4            | 0                                      | 4  |                    |             |             |             |             |             |             |             |             |             |             |             |                    |             |             |             |             |             |             |             |             |             |             | 4           |                       |
| 2005             | USAF             | 9            | 0                                      | 9  |                    |             |             |             |             |             |             |             |             |             |             |             |                    |             |             |             |             |             |             |             |             |             |             | 9           |                       |
| 2006             | USAF             | 9            | 0                                      | 9  |                    |             |             |             |             |             |             |             |             |             |             |             |                    |             |             |             |             |             |             |             |             |             |             | 9           |                       |
| 2007             | USAF             | 9            | 0                                      | 9  |                    |             |             |             |             |             |             |             |             |             |             |             |                    |             |             |             |             |             |             |             |             |             |             | 9           |                       |
| <b>TOTAL</b>     |                  |              |  |  |                    |             |             |             |             |             |             |             |             |             |             |             |                    |             |             |             |             |             |             |             |             |             |             | 31          |                       |
|                  |                  |              |  |  | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |                       |

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |                        |             | REACHED<br>D+ | PROCUREMENT LEAD TIME |                |             |                         |  |  |  |  |  |
|--------------------------|----------|------------------|------------------------|-------------|---------------|-----------------------|----------------|-------------|-------------------------|--|--|--|--|--|
|                          |          | MIN<br>SUST      | SHIFT<br>HOURS<br>DAYS | M<br>A<br>X |               | ADMIN<br>LEAD TIME    |                | MFG<br>TIME | TOTAL<br>AFTER<br>1 OCT |  |  |  |  |  |
|                          |          |                  |                        |             |               | PRIOR<br>1 OCT        | AFTER<br>1 OCT |             |                         |  |  |  |  |  |
| Lockheed Martin - Aero   |          |                  |                        |             |               |                       |                |             |                         |  |  |  |  |  |
|                          |          |                  |                        |             |               |                       |                |             |                         |  |  |  |  |  |
|                          |          |                  |                        |             |               | INITIAL<br>REORDER    |                |             |                         |  |  |  |  |  |

REMARKS

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 10</b> | P-1 Line Item Nomenclature<br><b>C-130J</b> |
|--|---|

| 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 |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----------|
|                  |      |           |                            |                              | 2004             |     |     | CALENDAR YEAR 2005 |     |     |     |     |     |     |     |     | CALENDAR YEAR 2006 |     |     |     |     |     |     |     |     |     |     |           |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN                | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP       |           |
| 2003             | USAF | 0         | 0                          | 0                            |                  |     |     |                    |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |           |           |
| 2004             | USAF | 4         | 0                          | 4                            |                  |     |     |                    |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |           |           |
| 2005             | USAF | 9         | 0                          | 9                            |                  |     |     |                    |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |           |           |
| 2006             | USAF | 9         | 0                          | 9                            |                  |     |     |                    |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |           |           |
| 2007             | USAF | 9         | 0                          | 9                            |                  |     |     |                    |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |           |           |
| <b>TOTAL</b>     |      | <b>31</b> | <b>0</b>                   | <b>31</b>                    |                  |     |     |                    |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     | <b>16</b> |           |

| ITEM/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           |  |          |                   |  |
| Lockheed Martin - Aero   |          |                  |                  |       |                 |                       |  |          |                   |  |
|                          |          |                  |                  |       | INITIAL REORDER |                       |  |          |                   |  |

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**Exhibit P-21, Production Schedule** Date: February 2002

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number  
**Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 10**

P-1 Line Item Nomenclature  
**C-130J**

| 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 |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|----------|----------|----------|----------|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|-----|-----------|
|                  |      |           |                            |                              | 2006             |          |          |          |          |          | CALENDAR YEAR 2007 |     |     |     |     |     | CALENDAR YEAR 2008 |     |     |     |     |     |     |     |          |     |     |     |           |
|                  |      |           |                            |                              | OCT              | NOV      | DEC      | JAN      | FEB      | MAR      | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN      | JUL | AUG | SEP |           |
| 2004             | USAF | 4         | 4                          | 0                            |                  |          |          |          |          |          |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |          | 0   |     |     |           |
| 2005             | USAF | 9         | 9                          | 0                            |                  |          |          |          |          |          |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |          | 0   |     |     |           |
| 2006             | USAF | 9         | 2                          | 7                            | 1                | 1        | 1        | 1        | 1        | 1        |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |          | 0   |     |     |           |
| 2007             | USAF | 9         | 0                          | 9                            |                  |          |          |          |          |          |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |          | 0   |     |     |           |
| <b>TOTAL</b>     |      | <b>31</b> | <b>15</b>                  | <b>16</b>                    | <b>1</b>         | <b>1</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>1</b> |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     | <b>0</b> |     |     |     |           |

|  |  |  |  |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|--|--|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|  |  |  |  |  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |  |
|--|--|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|

| ITEM/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 |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lockheed Martin - Aero   |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

REMARKS

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| <b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 10</b> | P-1 Line Item Nomenclature<br><b>C-130J</b> |
|--|---|

**Weapon System C-130J**

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

| Fin Plan | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | Total   |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| Quantity | 2       | 1       | 7       | 4       | 1       | 0       | 1       | 16      |
| Proc     | 29.367  | 13.261  | 90.220  | 57.240  | 13.260  | 0.530   | 22.050  | 225.928 |

**TRAINING SYSTEM DESCRIPTION**

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

Required Training Devices

FY99 - 1 Weapon System Trainer (on contract)

FY01 - 1 Weapon System Trainer (on contract), 1 Avionics Systems Management Trainer (on contract)

FY02 - 1 Loadmaster Fuselage Trainer

FY03 - 1 Weapon System Trainer, 1 Cockpit Procedures Trainer, 1 Integrated Cockpit System Maintenance Trainer, 1 Engine/Propeller Maintenance Trainer, 1 Flight Control Maintenance Trainer, 2 Landing Gear Maintenance Trainers

FY04 - 1 Weapon System Trainer, 1 Integrated Cockpit System Maintenance Trainer, 1 Engine/Propeller Maintenance Trainer, 1 Flight Control Maintenance Trainer

FY05 - 1 Loadmaster Fuselage Trainer

FY06 -

FY07 - 1 Weapon System Trainer



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**Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)** Date: February 2002

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. 10** **C-130J**

**Weapon System C-130J**

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

| IOC Date                      |           |                  |                           |                                  |         |        |         |        |         |        |
|-------------------------------|-----------|------------------|---------------------------|----------------------------------|---------|--------|---------|--------|---------|--------|
| TRAINING<br>DEVICE<br>BY TYPE | SITE      | DELIVERY<br>TIME | READY<br>TRAINING<br>DATE | AVG<br>STUDENT<br>THROUGH<br>PUT | FY 2001 |        | FY 2002 |        | FY 2003 |        |
|                               |           |                  |                           |                                  | QTY     | COST   | QTY     | COST   | QTY     | COST   |
| AIRCREW                       | KAFB, MS  | Oct-02           | Feb-03                    | 40                               |         |        |         |        |         |        |
| AIRCREW                       | LRAFB, AR | Oct-03           | Feb-04                    | 40                               | 2       | 25.472 |         |        |         |        |
| AIRCREW                       | LRAFB, AR | Mar-04           | Jun-04                    | 40                               |         |        | 1       | 12.500 |         |        |
| AIRCREW                       | LRAFB, AR | Dec-04           | Mar-05                    | 40                               |         |        |         |        | 2       | 33.220 |
| MAINTENANCE                   | LRAFB, AR | Dec-04           | Mar-05                    | 40                               |         |        |         |        | 5       | 55.480 |
| <b>TOTAL</b>                  |           |                  |                           |                                  | 2       | 25.472 | 1       | 12.500 | 7       | 88.700 |

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| <b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 10</b> | P-1 Line Item Nomenclature<br><b>C-130J</b> |
|--|---|

**Weapon System C-130J**

**Equipment Nomenclature: Aircrew Trainers**

**Description:**

The first Weapon System Trainer will be located at Keesler AFB, MS, and will be used for initial aircrew training until the C-130J Formal Training Unit is established at Little Rock AFB, AR. Once aircrew training begins at Little Rock AFB, the Keesler AFB trainer will only be used for continuation training.

| FINANCIAL PLAN              | FY 2001  |               | FY 2002  |               | FY 2003  |               | To Complete |              | Total Costs |              |
|-----------------------------|----------|---------------|----------|---------------|----------|---------------|-------------|--------------|-------------|--------------|
|                             | QTY      | COST          | QTY      | COST          | QTY      | COST          | QTY         | COST         | QTY         | COST         |
| <b>Hardware Costs</b>       |          |               |          |               |          |               |             |              |             |              |
| WST                         | 1        | 18.441        |          |               | 1        | 19.500        | TBD         | TBD          | TBD         | TBD          |
| Avionics Sys Trainer        | 1        | 7.031         |          |               |          |               | TBD         | TBD          |             |              |
| Fuselage Trainer            |          |               | 1        | 12.500        |          |               | TBD         | TBD          |             |              |
| Cockpit Procedures Trainer  |          |               |          |               | 1        | 13.720        | TBD         | TBD          |             |              |
| <b>Total Hardware Costs</b> | <b>2</b> | <b>25.472</b> | <b>1</b> | <b>12.500</b> | <b>2</b> | <b>33.220</b> | <b>0</b>    | <b>0.000</b> | <b>0</b>    | <b>0.000</b> |
| <b>Support Costs</b>        |          |               |          |               |          |               |             |              |             |              |
| Aircrew Courseware          |          |               |          |               |          |               |             |              |             |              |
| Currency Mgt                |          | 0.521         |          | 0.450         |          | 0.470         |             |              |             |              |
| Other                       |          | 3.374         |          | 0.311         |          | 1.050         |             |              |             |              |
| <b>Total Support Costs</b>  |          | <b>3.895</b>  |          | <b>0.761</b>  |          | <b>1.520</b>  |             |              |             |              |
| <b>TOTAL COSTS</b>          | <b>2</b> | <b>29.367</b> | <b>1</b> | <b>13.261</b> | <b>2</b> | <b>34.740</b> | <b>0</b>    | <b>0.000</b> | <b>0</b>    | <b>0.000</b> |

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| <b>Exhibit P-43 p.4, Simulator and Training Device Justification (\$ M)</b>  | Date: February 2002                         |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 02, Airlift Aircraft, Item No. 10</b> | P-1 Line Item Nomenclature<br><b>C-130J</b> |

**Weapon System C-130J**

**Equipment Nomenclature: Maintenance**

**Description:**

Maintenance training is part of the C-130J Maintenance and Aircrew Training System. Five maintenance trainers will be procured in FY03, all destined for Little Rock AFB, AR. Support for maintenance training is included in the aircrew training support line.

| FINANCIAL PLAN                        | FY 2001 |      | FY 2002 |      | FY 2003 |        | To Complete |       | Total Costs |       |
|---------------------------------------|---------|------|---------|------|---------|--------|-------------|-------|-------------|-------|
|                                       | QTY     | COST | QTY     | COST | QTY     | COST   | QTY         | COST  | QTY         | COST  |
| <b>Hardware Costs</b>                 |         |      |         |      |         |        |             |       |             |       |
| Integrated Cockpit Procedures Trainer |         |      |         |      | 1       | 18.500 |             | TBD   |             | TBD   |
| Engine/Propeller Trainer              |         |      |         |      | 1       | 12.780 |             |       |             |       |
| Flight Control Trainer                |         |      |         |      | 1       | 14.850 |             |       |             |       |
| Landing Gear Trainer                  |         |      |         |      | 2       | 9.350  |             |       |             |       |
| <b>Total Hardware Costs</b>           |         |      |         |      | 5       | 55.480 |             | 0.000 |             | 0.000 |
| <b>Support Costs</b>                  |         |      |         |      |         |        |             |       |             |       |
|                                       |         |      |         |      |         |        |             | TBD   |             | TBD   |
| <b>Total Support Costs</b>            |         |      |         |      |         |        |             | 0.000 |             | 0.000 |
|                                       |         |      |         |      |         |        |             | TBD   |             | TBD   |
| <b>TOTAL COSTS</b>                    |         |      |         |      | 5       | 55.480 |             | 0.000 |             | 0.000 |

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**FY 2003 BUDGET ESTIMATES  
BUDGET ACTIVITY 03 – TRAINER AIRCRAFT  
FEBRUARY 2002**

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11</b> | P-1 Line Item Nomenclature<br><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 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 | To Comp        | Total    |
| Proc Qty                          | A       | 97          | 34      | 40      | 35                              | 52      | 53      | 54      | 50      | 39             | 454      |
| Cost (\$ M)                       |         | 442.800     | 133.996 | 223.702 | 209.879                         | 302.800 | 313.605 | 344.149 | 303.250 | 222.700        | 2496.881 |
| Advance Proc Cost (\$ M )         |         | 0.000       |         |         |                                 |         |         |         |         | 0.000          | 0.000    |
| Weapon System Cost (\$ M)         |         | 442.800     | 133.996 | 223.702 | 209.879                         | 302.800 | 313.605 | 344.149 | 303.250 | 222.700        | 2496.881 |
| Initial Spares (\$ M)             |         | 0.000       | 0.000   | 0.000   | 39.933                          | 9.059   | 8.886   | 0.258   | 7.413   | 30.500         | 96.049   |
| Total Proc Cost (\$ M)            |         | 442.800     | 133.996 | 223.702 | 249.812                         | 311.859 | 322.491 | 344.407 | 310.663 | 253.200        | 2592.930 |
| Flyaway Unit Cost (\$ M)          |         | 3.250       | 2.547   | 4.575   | 4.823                           | 4.861   | 5.025   | 5.159   | 5.101   | 5.271          | 4.430    |
| Wpn Sys Unit Cost (\$ M)          |         | 3.827       | 2.629   | 4.883   | 5.246                           | 5.077   | 5.226   | 5.348   | 5.238   | 5.382          | 4.713    |

**Description**

Supports Air Education and Training Command's (AETC) implementation of Specialized Undergraduate Pilot Training (SUPT) and the Department of Defense initiative for joint pilot training. The Joint Primary Aircraft Training System (JPATS) is a joint USAF/USN venture to replace the Services' fleets of primary trainer aircraft (T-37/T-34 respectively) and associated Ground Based Training Systems (GBTS). The USAF's T-37 aircraft average over 35 years of age. The T-37s have an antiquated suite of increasingly unsupportable and non-representative avionics, as well as noisy, underpowered and fuel-inefficient engines. Cockpits are unpressurized, resulting in the largest number of physiological incidents in the Air Force. The JPATS T-6A aircraft offers a pressurized cockpit, anti-g suit, a 0/0 ejection seat, and increased birdstrike protection. The USAF is the Executive Service for JPATS. The Air Force has accelerated JPATS acquisition in FY2004 through FY2007 to allow an earlier beddown of the T-6A and earlier retirement of the T-37B.

**FY 2003 Program Justification**

Will procure aircraft and associated support based on availability of FY 2003 funds. Aircraft are required to continue training at Vance AFB, OK. Engineering Change Order (ECO) and Low Cost Modification funding will be used to cover planned retrofits and other changes resulting from the flight test program, deficiency reports, air vehicle engineering improvements such as the Terrain Collision Avoidance System (TCAS) and the Ground Based Training System (GBTS) upgrades. The Training Integration Management System (TIMS) being acquired with FY2002 Aircraft Procurement, Air Force funds (requested for JPATS) will be used at Sheppard AFB, TX, by the Euro-NATO Joint Jet Pilot Training (ENJJPT) Program, an international cooperative program that trains both United States Air Force and allied participating NATO Air Force students. The NATO participating Air Forces will reimburse the United States in FY2004. Initial spares funding in FY03 include the option to buy out the Contractor Operated and Maintained Base Supply (COMBS). The initial spares include phased buy out in FY03 for activated bases, then a phased-by-base activation schedule for remaining bases.

P-1 Shopping List Item No. 11

**Budget Item Justification  
Exhibit P-40, page 1 of 14**

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11</b> | P-1 Line Item Nomenclature<br><b>Joint Primary Aircraft Training System (JPATS)</b> |
|--|---|

|   |              |
|---|--------------|
| Manufacturer's Name/Plant City/State Location<br>Raytheon Aircraft Company/Wichita/Kansas | Subline Item |
|---|--------------|

| Weapon System Cost Elements  | Ident Code | Total Cost In Millions of Dollars |           |            |         |           |            |         |           |            |
|------------------------------|------------|-----------------------------------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
|                              |            | FY 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|                              |            | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| Aircraft                     | A          | 34                                | 2.624     | 89.200     | 40      | 4.575     | 183.000    | 35      | 4.823     | 168.800    |
| FLYAWAY COST SUBTOTAL        | A          |                                   |           | 89.200     |         |           | 183.000    |         |           | 168.800    |
| Other                        | A          |                                   |           | 21.396     |         |           | 19.700     |         |           | 21.048     |
| SUPPORT COST SUBTOTAL        | A          |                                   |           | 21.396     |         |           | 19.700     |         |           | 21.048     |
| Ground Based Training System | A          |                                   |           | 23.400     |         |           | 21.200     |         |           | 22.000     |
| Initial Spares               | A          |                                   |           |            |         |           |            |         |           | 39.933     |
| <b>TOTAL PROGRAM</b>         |            |                                   |           | 133.996    |         |           | 223.900    |         |           | 251.781    |

**Comments**

'Other' includes air vehicle support, integrated logistics support, retrofit (aircraft modification funds not included in the P-40 exhibit), and mission support.

FY02 T-6A air vehicle unit price is \$4.272 million based on the contract number F3365701C0022. This decreases the number of aircraft affordable within the funds requested in the FY02 President's Budget. (48 aircraft were requested; the number affordable is 40.) (The Unit Cost above includes Engineering Change Order (ECO), which is not reflected in the aircraft price.) The Navy purchased 12 aircraft in FY00 and 24 aircraft in FY01. Navy will buy 5-7 aircraft in FY02 with the \$30.8M Congressional add, and up to 24 aircraft in FY07 depending on funds availability and aircraft unit prices.



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| <b>Exhibit P-5A, Procurement History and Planning</b>  | Date: February 2002   |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11</b> | P-1 Line Item Nomenclature<br><b>Joint Primary Aircraft Training System (JPATS)</b> |

| <b>Weapon System</b> |     |           | <b>Subline Item</b>   |                |                 |                  |   |            |                        |                      |                           |  |
|----------------------|-----|-----------|-----------------------|----------------|-----------------|------------------|---|------------|------------------------|----------------------|---------------------------|--|
| <b>T-6</b>           |     |           |                       |                |                 |                  |   |            |                        |                      |                           |  |
| 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<br>WPAFB<br>OH | May-94         | C/FPO           | FPIF             | Raytheon Aircraft Co<br>Wichita, Kansas | Feb-96     | Feb-00                 | Yes                  |                           |  |
| Air Vehicle FY96     | 6   | 5.600     | ASC/YT<br>WPAFB<br>OH | May-94         | C/FPO           | FPIF             | Raytheon Aircraft Co<br>Wichita, Kansas | Sep-96     | Jun-00                 | Yes                  |                           |  |
| Air Vehicle FY97     | 15  | 3.431     | ASC/YT<br>WPAFB<br>OH | May-94         | C/FPO           | FPIF with<br>EPA | Raytheon Aircraft Co<br>Wichita, Kansas | Apr-97     | Aug-00                 | Yes                  |                           |  |
| Air Vehicle FY98     | 22  | 2.959     | ASC/YT<br>WPAFB<br>OH | May-94         | C/FPO           | FPIF with<br>EPA | Raytheon Aircraft Co<br>Wichita, Kansas | Feb-98     | Dec-00                 | Yes                  |                           |  |
| Air Vehicle FY99     | 22  | 2.845     | ASC/YT<br>WPAFB<br>OH | May-94         | C/FPO           | FPIF with<br>EPA | Raytheon Aircraft Co<br>Wichita, Kansas | May-99     | Aug-01                 | Yes                  |                           |  |
| Air Vehicle FY00     | 29  | 2.596     | ASC/YT<br>WPAFB<br>OH | May-94         | C/FPO           | FFP              | Raytheon Aircraft Co<br>Wichita, Kansas | Jun-00     | May-02                 | Yes                  |                           |  |
| Air Vehicle FY01     | 34  | 2.431     | ASC/YT<br>WPAFB<br>OH | May-94         | C/FPO           | FFP              | Raytheon Aircraft Co<br>Wichita, Kansas | Feb-01     | May-03                 | Yes                  |                           |  |
| Air Vehicle FY02     | 40  | 4.274     | ASC/YT<br>WPAFB OH    | Jun-01         | C/FPO           | FFP              | Raytheon Aircraft Co<br>Wichita, Kansas | Dec-01     | May-04                 | Yes                  |                           |  |
| Air Vehicle FY03     | 35  | 4.593     | ASC/YT<br>WPAFB OH    | Jun-01         | C/FPO           | FFP              | Raytheon Aircraft Co<br>Wichita, Kansas |            | Jun-05                 | Yes                  |                           |  |
| Air Vehicle FY04     | 52  | 4.630     | ASC/YT<br>WPAFB OH    | Jun-01         | C/FPO           | FFP              | Raytheon Aircraft Co<br>Wichita, Kansas |            | May-06                 | Yes                  |                           |  |

P-1 Shopping List Item No. 11

Procurement History and Planning

Exhibit P-5A, page 3 of 14

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| <b>Exhibit P-5A, Procurement History and Planning</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11</b> | P-1 Line Item Nomenclature<br><b>Joint Primary Aircraft Training System (JPATS)</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? |
| Air Vehicle FY05     | 53  | 4.786     | ASC/YT<br>WPAFB OH | Jun-01                 | C/FPO           | FFP           | Raytheon Aircraft Co<br>Wichita, Kansas |            | Apr-07                 | Yes                  |                           |
| Air Vehicle FY06     | 54  | 4.914     | ASC/YT<br>WPAFB OH | Jun-01                 | C/FPO           | FFP           | Raytheon Aircraft Co<br>Wichita, Kansas |            | Mar-08                 | Yes                  |                           |
| Air Vehicle FY07     | 50  | 4.858     | ASC/YT<br>WPAFB OH |                        | C/FPO           | FFP           | Raytheon Aircraft Co<br>Wichita, Kansas |            | Feb-09                 | Yes                  |                           |
| Air Vehicle FY08     | 39  | 5.020     | ASC/YT<br>WPAFB OH |                        | C/FPO           | FFP           | Raytheon Aircraft Co<br>Wichita, Kansas |            | Mar-10                 | Yes                  |                           |

**Remarks**

In constant dollars, the T-6A unit cost decreased from FY 1995 through FY 2001 (the term of the initial contract), then increased beginning in FY 2002, the first year of the follow-on contract. The increase is caused by high demand due to the commercial nature of T-6A components and relatively small T-6A quantities, the Navy's withdrawal from aircraft procurement in FY02-FY06, increased cost of materials, and a lower volume of foreign sales than was originally forecast. The follow-on contract is in accordance with FAR Part 12 and incorporates commercial payments. Prices decrease in FY07 because Navy re-enters the program and buys 24 T-6A aircraft.

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**Exhibit P-21, Production Schedule** Date: February 2002

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number  
**Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11**

P-1 Line Item Nomenclature  
**Joint Primary Aircraft Training System (JPATS)**

| PROCUREMENT YEAR | SERV | PROC. QTY  | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001   |          |          |          |          |          |          |          |          |          |          |          | FISCAL YEAR 2002   |          |          |          |          |          |          |            |       |       |       |       | L A T E R |
|------------------|------|------------|----------------------------|------------------------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|------------|-------|-------|-------|-------|-----------|
|                  |      |            |                            |                              | CALENDAR YEAR 2001 |          |          |          |          |          |          |          |          |          |          |          | CALENDAR YEAR 2002 |          |          |          |          |          |          |            |       |       |       |       |           |
|                  |      |            |                            |                              | 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 |           |
| 1995             | USAF | 9          | 9                          | 0                            |                    |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |            | 0     |       |       |       |           |
| 1996             | USAF | 4          | 4                          | 0                            |                    |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |            | 0     |       |       |       |           |
| 1997             | USAF | 11         | 4                          | 7                            | 1                  | 0        | 1        | 1        | 2        | 2        |          |          |          |          |          |          |                    |          |          |          |          |          |          | 0          |       |       |       |       |           |
| 1998             | USAF | 22         | 0                          | 22                           |                    |          | 0        | 0        | 0        | 2        | 1        | 3        | 2        | 1        | 2        | 5        | 4                  | 2        |          |          |          |          |          | 0          |       |       |       |       |           |
| 1999             | USAF | 22         | 0                          | 22                           |                    |          |          |          |          |          |          |          |          |          |          | 3        | 7                  | 4        | 4        | 4        |          |          |          | 0          |       |       |       |       |           |
| 2000             | USAF | 29         | 0                          | 29                           |                    |          |          |          |          |          |          |          |          |          |          |          |                    |          |          | 4        | 4        | 2        | 3        | 1          | 15    |       |       |       |           |
| 2001             | USAF | 34         | 0                          | 34                           |                    |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |          | 34         |       |       |       |       |           |
| 2002             | USAF | 40         | 0                          | 40                           |                    |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |          | 40         |       |       |       |       |           |
| 2003             | USAF | 35         | 0                          | 35                           |                    |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |          | 35         |       |       |       |       |           |
| 2004             | USAF | 52         | 0                          | 52                           |                    |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |          | 52         |       |       |       |       |           |
| 2005             | USAF | 53         | 0                          | 53                           |                    |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |          | 53         |       |       |       |       |           |
| 2006             | USAF | 54         | 0                          | 54                           |                    |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |          | 54         |       |       |       |       |           |
| 2007             | USAF | 50         | 0                          | 50                           |                    |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |          | 50         |       |       |       |       |           |
| 2008             | USAF | 39         | 0                          | 39                           |                    |          |          |          |          |          |          |          |          |          |          |          |                    |          |          |          |          |          |          | 39         |       |       |       |       |           |
| <b>TOTAL</b>     |      | <b>454</b> | <b>17</b>                  | <b>437</b>                   | <b>1</b>           | <b>0</b> | <b>1</b> | <b>1</b> | <b>2</b> | <b>4</b> | <b>1</b> | <b>3</b> | <b>2</b> | <b>1</b> | <b>2</b> | <b>5</b> | <b>4</b>           | <b>5</b> | <b>7</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>372</b> |       |       |       |       |           |

|       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 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 |  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|

| ITEM/MANUFACTURER'S NAME | LOCATION        | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |             |          |                   |  |  |   |   |    |    |
|--------------------------|-----------------|------------------|-------------|-------|------------|-----------------------|-------------|----------|-------------------|--|--|---|---|----|----|
|                          |                 | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |  |  |   |   |    |    |
|                          |                 |                  |             |       |            | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |  |  |   |   |    |    |
| Ravtheon                 | Wichita, Kansas | 36               |             | 96    |            |                       |             |          |                   |  |  | 0 | 5 | 33 | 38 |
|                          |                 |                  |             |       |            |                       |             |          |                   |  |  | 0 | 5 | 24 | 29 |

REMARKS

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Exhibit P-21, Production Schedule Date: February 2002

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number

P-1 Line Item Nomenclature

Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11

Joint Primary Aircraft Training

System (JPATS)

Table with columns for Procurement Year, S E R V, Proc. Qty, ACCEP. PRIOR TO 1 OCT 2002, BALANCE DUE AS OF 1 OCT 2002, FISCAL YEAR 2003 (2002), CALENDAR YEAR 2003, FISCAL YEAR 2004 (2004), CALENDAR YEAR 2004, and L A T E R. Includes rows for years 1999-2008 and a TOTAL row.

Table for Production Rates and Procurement Lead Time. Includes columns for MIN SUST, SHIFT HOURS DAYS, M A X, REACHED D+, ADMIN LEAD TIME (PRIOR 1 OCT, AFTER 1 OCT), MFG TIME, and TOTAL AFTER 1 OCT. Includes a REMARKS section.

**UNCLASSIFIED**

**Exhibit P-21, Production Schedule** Date: February 2002

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number  
**Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11**

P-1 Line Item Nomenclature  
**Joint Primary Aircraft Training System (JPATS)**

| 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 |            |
|------------------|------|------------|----------------------------|------------------------------|------------------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|------------|
|                  |      |            |                            |                              | 2004             |          |          |          | CALENDAR YEAR 2005 |          |          |          |          |          |          |          | CALENDAR YEAR 2006 |          |          |          |          |          |          |          |          |          |          |          |           |            |
|                  |      |            |                            |                              | OCT              | NOV      | DEC      | JAN      | FEB                | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      | OCT                | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      |           |            |
| 2002             | USAF | 40         | 19                         | 21                           | 4                | 3        | 4        | 3        | 4                  | 3        |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 0        |          |          |           |            |
| 2003             | USAF | 35         | 0                          | 35                           |                  |          |          |          |                    |          |          |          | 3        | 3        | 3        | 3        | 3                  | 4        | 4        | 4        | 3        | 4        | 1        |          |          |          | 0        |          |           |            |
| 2004             | USAF | 52         | 0                          | 52                           |                  |          |          |          |                    |          |          |          |          |          |          |          |                    |          |          |          |          | 3        | 4        | 4        | 4        | 5        | 5        | 5        | 5         | 17         |
| 2005             | USAF | 53         | 0                          | 53                           |                  |          |          |          |                    |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          |          | 53       |          |           |            |
| 2006             | USAF | 54         | 0                          | 54                           |                  |          |          |          |                    |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          |          | 54       |          |           |            |
| 2007             | USAF | 50         | 0                          | 50                           |                  |          |          |          |                    |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          |          | 50       |          |           |            |
| 2008             | USAF | 39         | 0                          | 39                           |                  |          |          |          |                    |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          |          | 39       |          |           |            |
| <b>TOTAL</b>     |      | <b>323</b> | <b>19</b>                  | <b>304</b>                   | <b>4</b>         | <b>3</b> | <b>4</b> | <b>3</b> | <b>4</b>           | <b>3</b> | <b>3</b> | <b>3</b> | <b>3</b> | <b>3</b> | <b>3</b> | <b>4</b> | <b>4</b>           | <b>4</b> | <b>3</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>5</b> | <b>5</b> | <b>5</b> | <b>5</b>  | <b>213</b> |

|  |  |  |  |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--|--|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |  |  |  |  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|--|--|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------|----------|------------------|-------------|-------|------------|-----------------------|-------------|----------|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                          |          | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          |                  |             |       |            | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Raytheon                 |          |                  |             |       |            |                       |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          |                  |             |       |            |                       |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          |                  |             |       |            |                       |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

REMARKS

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**Exhibit P-21, Production Schedule** Date: February 2002

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number  
**Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11**

P-1 Line Item Nomenclature  
**Joint Primary Aircraft Training System (JPATS)**

| 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 |            |
|------------------|------|------------|----------------------------|------------------------------|------------------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|------------|
|                  |      |            |                            |                              | 2006             |          |          |          | CALENDAR YEAR 2007 |          |          |          |          |          |          |          | CALENDAR YEAR 2008 |          |          |          |          |          |          |          |          |          |          |          |           |            |
|                  |      |            |                            |                              | OCT              | NOV      | DEC      | JAN      | FEB                | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      | OCT                | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      |           |            |
| 2004             | USAF | 52         | 35                         | 17                           | 5                | 4        | 4        | 4        |                    |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 0        |          |          |           |            |
| 2005             | USAF | 53         | 0                          | 53                           |                  |          |          |          | 4                  | 4        | 4        | 4        | 4        | 5        | 5        | 5        | 5                  | 4        | 4        | 4        |          |          |          |          |          | 0        |          |          |           |            |
| 2006             | USAF | 54         | 0                          | 54                           |                  |          |          |          |                    |          |          |          |          |          |          |          |                    |          | 4        | 4        | 4        | 4        | 5        | 5        | 5        | 5        | 18       |          |           |            |
| 2007             | USAF | 50         | 0                          | 50                           |                  |          |          |          |                    |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 50       |          |          |           |            |
| 2008             | USAF | 39         | 0                          | 39                           |                  |          |          |          |                    |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 39       |          |          |           |            |
| <b>TOTAL</b>     |      | <b>248</b> | <b>35</b>                  | <b>213</b>                   | <b>5</b>         | <b>4</b> | <b>4</b> | <b>4</b> | <b>4</b>           | <b>4</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>5</b> | <b>5</b> | <b>5</b> | <b>5</b>           | <b>4</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>5</b> | <b>5</b> | <b>5</b> | <b>5</b>  | <b>107</b> |

|  |  |  |  |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--|--|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |  |  |  |  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|--|--|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------|----------|------------------|-------------|-------|------------|-----------------------|-------------|----------|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                          |          | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          |                  |             |       |            | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Ravtheon                 |          |                  |             |       |            |                       |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          |                  |             |       |            |                       |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          |                  |             |       |            |                       |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

REMARKS

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11</b> | P-1 Line Item Nomenclature<br><b>Joint Primary Aircraft Training System (JPATS)</b> |
|--|---|

| PROCUREMENT YEAR | SERV | PROC. QTY  | ACCEP. PRIOR TO 1 OCT 2008 | BALANCE DUE AS OF 1 OCT 2008 | FISCAL YEAR 2009 |          |          |          |                    |          |          |          |          |          |          |          | FISCAL YEAR 2010   |          |          |          |          |          |          |          |          |          |          |          | L A T E R |
|------------------|------|------------|----------------------------|------------------------------|------------------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
|                  |      |            |                            |                              | 2008             |          |          |          | CALENDAR YEAR 2009 |          |          |          |          |          |          |          | CALENDAR YEAR 2010 |          |          |          |          |          |          |          |          |          |          |          |           |
|                  |      |            |                            |                              | OCT              | NOV      | DEC      | TOTAL    | JAN                | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP                | OCT      | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      |           |
| 2006             | USAF | 54         | 36                         | 18                           | 5                | 4        | 4        | 5        |                    |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          |          | 0        |          |           |
| 2007             | USAF | 50         | 0                          | 50                           |                  |          |          |          | 3                  | 3        |          | 3        | 4        | 4        | 4        | 5        | 5                  | 5        | 5        | 4        | 5        |          |          |          |          |          | 0        |          |           |
| 2008             | USAF | 39         | 0                          | 39                           |                  |          |          |          |                    |          |          |          |          |          |          |          |                    |          | 3        | 3        | 3        | 3        | 4        | 4        | 4        | 3        | 12       |          |           |
| <b>TOTAL</b>     |      | <b>143</b> | <b>36</b>                  | <b>107</b>                   | <b>5</b>         | <b>4</b> | <b>4</b> | <b>5</b> | <b>3</b>           | <b>3</b> | <b>3</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>5</b> | <b>5</b> | <b>5</b>           | <b>5</b> | <b>4</b> | <b>5</b> | <b>3</b> | <b>3</b> | <b>3</b> | <b>3</b> | <b>4</b> | <b>4</b> | <b>4</b> | <b>3</b> | <b>12</b> |

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |             |          |  | TOTAL AFTER 1 OCT |
|--------------------------|----------|------------------|-------------|-------|------------|-----------------------|-------------|----------|--|-------------------|
|                          |          | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |             | MFG TIME |  |                   |
|                          |          |                  |             |       |            | PRIOR 1 OCT           | AFTER 1 OCT |          |  |                   |
| Raytheon                 |          |                  |             |       |            |                       |             |          |  |                   |
|                          |          |                  |             |       |            |                       |             |          |  |                   |
|                          |          |                  |             |       |            |                       |             |          |  |                   |
|                          |          |                  |             |       |            |                       |             |          |  |                   |
|                          |          |                  |             |       |            |                       |             |          |  |                   |

REMARKS

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11</b> | P-1 Line Item Nomenclature<br><b>Joint Primary Aircraft Training System (JPATS)</b> |
|--|---|

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2010 | BALANCE DUE AS OF 1 OCT 2010 | FISCAL YEAR 2011 |          |          |          |                    |     |     |     |     |     |     |     | FISCAL YEAR 2012   |     |     |     |     |     |     |     |     |     |          |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|----------|----------|--------------------|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----------|
|                  |      |           |                            |                              | 2010             |          |          |          | CALENDAR YEAR 2011 |     |     |     |     |     |     |     | CALENDAR YEAR 2012 |     |     |     |     |     |     |     |     |     |          |     |           |
|                  |      |           |                            |                              | OCT              | NOV      | DEC      | TOTAL    | JAN                | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP                | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL      | AUG |           |
| 2008             | USAF | 12        | 0                          | 12                           | 3                | 3        | 3        | 3        |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 0        |     |           |
| <b>TOTAL</b>     |      | <b>12</b> | <b>0</b>                   | <b>12</b>                    | <b>3</b>         | <b>3</b> | <b>3</b> | <b>3</b> |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | <b>0</b> |     |           |
|                  |      |           |                            |                              | OCT              | NOV      | DEC      | TOTAL    | JAN                | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP                | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL      | AUG | SEP       |

| ITEM/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           |  |          |                   |
| Raytheon                 |          |                  |                  |       |             |                       |  |          |                   |
|                          |          |                  |                  |       |             |                       |  |          |                   |
|                          |          |                  |                  |       |             |                       |  |          |                   |
|                          |          |                  |                  |       |             |                       |  |          |                   |

REMARKS



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| <b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
|---|---------------------|

|  |   |
|--|---|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11</b> | P-1 Line Item Nomenclature<br><b>Joint Primary Aircraft Training System (JPATS)</b> |
|--|---|

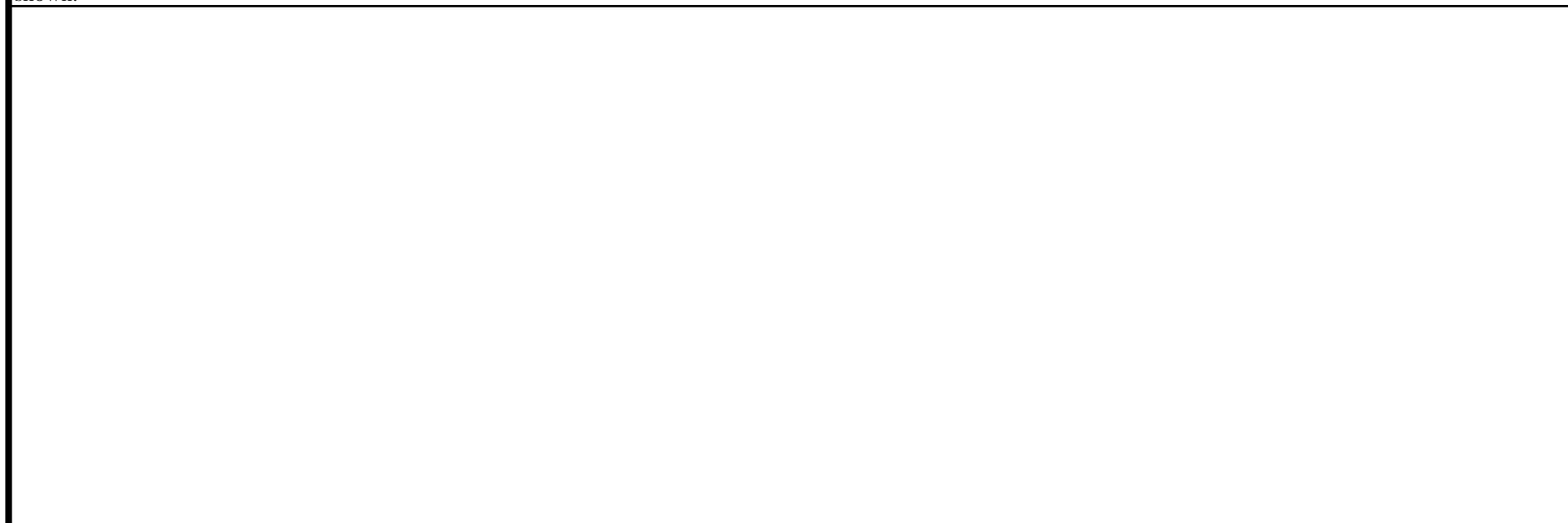
**Weapon System T-6**

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

| Fin Plan | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | Total   |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| Quantity | 11      | 6       | 8       | 8       | 11      | 8       | 12      | 64      |
| Proc     | 23.400  | 21.200  | 22.000  | 20.800  | 21.800  | 21.500  | 27.500  | 158.200 |
| RDT&E    | 23.764  | 1.837   | 1.909   | 1.941   | 1.980   |         |         | 31.431  |
| O&S      | 2.816   | 12.100  | 18.360  | 21.960  | 25.560  | 28.938  | 31.983  | 141.717 |

**TRAINING SYSTEM DESCRIPTION**

Training will consist of a single primary phase of Specialized Undergraduate Pilot Training (SUPT). The objective of both the Air Force and the Navy is to jointly acquire an integrated training system using similar hardware with like capabilities. Components of the JPATS system include the T-6A air vehicle, simulators, curricula, and contractor logistics support. This project represents the ground based training system (GBTS) portion of the system and includes courseware and a Training Integration Management System as well as aircrew training devices (simulators). The quantities above reflect procurement of all GBTS components (not only unit training devices) in the fiscal years shown.



|                               |  |
|-------------------------------|--|
| P-1 Shopping List Item No. 11 | <b>Simulator and Training Device Justification (\$ M)</b><br>Exhibit P-43 p.1, page 11 of 14 |
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| <b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11</b> | P-1 Line Item Nomenclature<br><b>Joint Primary Aircraft Training System (JPATS)</b> |
|--|---|

**Weapon System T-6**

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

| <b>IOC Date</b>               |         |                  |                           |                                  |         |        |         |        |         |        |
|-------------------------------|---------|------------------|---------------------------|----------------------------------|---------|--------|---------|--------|---------|--------|
| TRAINING<br>DEVICE<br>BY TYPE | SITE    | DELIVERY<br>TIME | READY<br>TRAINING<br>DATE | AVG<br>STUDENT<br>THROUGH<br>PUT | FY 2001 |        | FY 2002 |        | FY 2003 |        |
|                               |         |                  |                           |                                  | QTY     | COST   | QTY     | COST   | QTY     | COST   |
| OFT                           | Various |                  |                           |                                  | 2       | 5.648  | 2       | 9.693  | 3       | 12.378 |
| IFT                           | Various |                  |                           |                                  | 3       | 3.194  | 2       | 3.192  | 4       | 6.375  |
| UTD                           | Various |                  |                           |                                  | 3       |        | 1       | 1.224  | 1       | 1.202  |
| EST                           | Various |                  |                           |                                  | 1       |        |         |        |         |        |
| EPT                           | Various |                  |                           |                                  | 1       |        |         |        |         |        |
| PPT                           | Various |                  |                           |                                  |         |        |         |        |         |        |
| TIMS                          | Various |                  |                           |                                  | 1       | 9.103  | 1       | 4.656  |         |        |
| CBTS                          | Various |                  |                           |                                  |         | 0.331  |         | 0.324  |         |        |
| Visual Data Base              |         |                  |                           |                                  |         |        |         |        |         | 0.453  |
| <b>TOTAL</b>                  |         |                  |                           |                                  | 11      | 18.276 | 6       | 19.089 | 8       | 20.408 |

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| <b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11</b> | P-1 Line Item Nomenclature<br><b>Joint Primary Aircraft Training System (JPATS)</b> |
|--|---|

**Weapon System T-6**

**Equipment Nomenclature: Aircrew Trainers**

**Description:**

Aircrew training devices include Operational Flight Trainers (OFT), Instrument Flight Trainers (IFT), and Unit Training Devices (UTD). OFT unit price increased in FY02 due to program management fees being included for Flight Safety and Raytheon. Actual cost of OFT in FY02 was \$2.3M without program management fees. Support costs in FY01 include funds for GBTS Management, DSAL, Clean-Up, and Award Fee. Support costs for FY02 to completion include engineering change order (ECO) costs only.

| FINANCIAL PLAN              | FY 2001   |               | FY 2002  |               | FY 2003  |               | To Complete |               | Total Costs |                |
|-----------------------------|-----------|---------------|----------|---------------|----------|---------------|-------------|---------------|-------------|----------------|
|                             | QTY       | COST          | QTY      | COST          | QTY      | COST          | QTY         | COST          | QTY         | COST           |
| <b>Hardware Costs</b>       |           |               |          |               |          |               |             |               |             |                |
| OFT                         | 2         | 5.648         | 2        | 9.693         | 3        | 12.378        | 11          | 42.540        | 23          | 84.033         |
| IFT                         | 3         | 3.194         | 2        | 3.192         | 4        | 6.375         | 13          | 28.890        | 26          | 49.286         |
| UTD                         | 3         |               | 1        | 1.224         | 1        | 1.202         | 9           | 12.990        | 19          | 24.330         |
| EST                         | 1         |               |          |               |          |               | 3           | 0.310         | 5           | 0.576          |
| EPT                         | 1         |               |          |               |          |               | 3           | 0.890         | 5           | 1.616          |
| PPT                         |           |               |          |               |          |               |             |               | 55          | 0.030          |
| CBTS                        |           | 0.331         |          | 0.324         |          |               |             |               | 5           | 2.659          |
| TIMS                        | 1         | 9.103         | 1        | 4.656         |          |               |             | 0.115         | 5           | 33.991         |
| Visual Data Base            |           |               |          |               |          | 0.453         |             | 1.009         |             | 1.462          |
| <b>Total Hardware Costs</b> | <b>11</b> | <b>18.276</b> | <b>6</b> | <b>19.089</b> | <b>8</b> | <b>20.408</b> | <b>39</b>   | <b>86.744</b> | <b>143</b>  | <b>197.983</b> |
| <b>Support Costs</b>        |           |               |          |               |          |               |             |               |             |                |
|                             |           | 5.124         |          | 2.111         |          | 1.592         |             | 4.915         |             | 21.716         |
| <b>Total Support Costs</b>  |           | <b>5.124</b>  |          | <b>2.111</b>  |          | <b>1.592</b>  |             | <b>4.915</b>  |             | <b>21.716</b>  |
| <b>TOTAL COSTS</b>          | <b>11</b> | <b>23.400</b> | <b>6</b> | <b>21.200</b> | <b>8</b> | <b>22.000</b> | <b>39</b>   | <b>91.659</b> | <b>143</b>  | <b>219.699</b> |

P-1 Shopping List Item No. 11

Simulator and Training Device Justification (\$ M)

Exhibit P-43 p.3, page 13 of 14

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| <b>Exhibit P-43 p.4, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 03, Trainer Aircraft, Item No. 11</b> | P-1 Line Item Nomenclature<br><b>Joint Primary Aircraft Training System (JPATS)</b> |
|--|---|

**Weapon System T-6**

**Equipment Nomenclature: Maintenance**

**Description:**

| FINANCIAL PLAN              | FY 2001 |       | FY 2002 |      | FY 2003 |      | To Complete |       | Total Costs |       |
|-----------------------------|---------|-------|---------|------|---------|------|-------------|-------|-------------|-------|
|                             | QTY     | COST  | QTY     | COST | QTY     | COST | QTY         | COST  | QTY         | COST  |
| <b>Hardware Costs</b>       |         | 0.000 |         |      |         |      |             | 0.000 |             | 0.000 |
| <b>Total Hardware Costs</b> |         | 0.000 |         |      |         |      |             | 0.000 |             | 0.000 |
| <b>Support Costs</b>        |         | 0.000 |         |      |         |      |             | 0.000 |             | 0.000 |
| <b>Total Support Costs</b>  |         | 0.000 |         |      |         |      |             | 0.000 |             | 0.000 |
| <b>TOTAL COSTS</b>          |         | 0.000 |         |      |         |      |             | 0.000 |             | 0.000 |

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**FY 2003 BUDGET ESTIMATES**  
**BUDGET ACTIVITY 04 – OTHER AIRCRAFT**  
**FEBRUARY 2002**

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 12</b> | P-1 Line Item Nomenclature<br><b>CV-22 (Osprey)</b> |
|--|---|

| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         |         | PE 1160404 |          |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|------------|----------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 | To Comp    | Total    |
| Proc Qty                          | A       | 0           | 0       | 0       | 0                               | 2       | 3       | 4       | 3       | 38         | 50       |
| Cost (\$ M)                       |         | 21.996      | 22.804  | 0.000   | 90.904                          | 241.665 | 312.279 | 278.320 | 267.106 | 2428.800   | 3663.874 |
| Advance Proc Cost (\$ M)          |         | 0.000       | 22.712  | 0.000   | 10.100                          | 15.150  | 20.200  | 15.150  | 25.250  | 140.600    | 249.162  |
| Weapon System Cost (\$ M)         |         | 21.996      | 45.516  | 0.000   | 101.004                         | 256.815 | 332.479 | 293.470 | 292.356 | 2569.400   | 3913.036 |
| Initial Spares (\$ M)             |         | 0.000       | 9.496   | 0.000   | 11.323                          | 45.778  | 51.601  | 38.205  | 13.792  | 290.200    | 460.395  |
| Total Proc Cost (\$ M)            |         | 21.996      | 55.012  | 0.000   | 112.327                         | 302.593 | 384.080 | 331.675 | 306.148 | 2859.600   | 4373.431 |
| Flyaway Unit Cost (\$ M)          |         |             |         |         |                                 | 80.413  | 72.102  | 70.793  | 65.494  | 57.500     | 61.600   |
| Wpn Sys Unit Cost (\$ M)          |         |             |         |         |                                 | 128.698 | 111.020 | 80.131  | 101.065 | 67.600     | 79.100   |

**Description**

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

**FY 2003 Program Justification**

The FY03 budget includes support elements required to support the two production representative test vehicles developed beginning in FY02 and delivered in FY04. These support elements include Airframe PGSE (\$10.0M), Engine PGSE (\$2.0M), Avionics PGSE (\$3.891M), Technical Publications (\$6.0M), Common Support Equipment (\$3.0M) and Other ILS (\$13.5M). A total of \$33.323M of initial spares will also be procured. However, \$22.0M of those funds were incorrectly loaded into the Cost line above, instead of the initial spares line. These support items have a lead time of 24 months or greater and will be used to support an operational test period in FY05-6. Upon completion of the test, these assets will be used to initiate aircrew training at the SOF schoolhouse at Kirtland AFB, NM

The FY03 budget also includes \$30.513M for training devices. Purchase of FTD#2 in FY03 will provide for aircrew training and special operations tactical development prior to aircraft arrival at Hurlburt Field.

The FY03 budget also includes \$10.1M for advanced procurement of two CV-22 aircraft to be purchased in FY04.

|                               |   |
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| P-1 Shopping List Item No. 12 | <b>Budget Item Justification<br/>Exhibit P-40, page 1 of 12</b> |
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**Exhibit P-5, Weapon System Cost Analysis** Date: February 2002

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. 12** **CV-22 (Osprey)**

Manufacturer's Name/Plant City/State Location Subline Item

Bell-Boeing / Amarillo / TX

| Weapon System<br>Cost Elements  | Ident<br>Code | Total Cost In Millions of Dollars |           |            |         |           |            |         |           |            |
|---------------------------------|---------------|-----------------------------------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
|                                 |               | FY 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|                                 |               | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| Air Frame CFE                   | A             | 0                                 |           |            | 0       |           | 0.000      |         |           |            |
| Engines/Accessories             | A             |                                   |           | 14.640     |         |           |            |         |           |            |
| CFE Electronics                 | A             |                                   |           |            |         |           |            |         |           |            |
| GFE Electronics                 | A             |                                   |           | 0.000      |         |           | 0.000      |         |           |            |
| Engineering Change Orders (ECO) | A             |                                   |           | 0.000      |         |           |            |         |           |            |
| Nonrecurring Cost               | A             |                                   |           | 19.293     |         |           |            |         |           |            |
| <b>TOTAL FLYAWAY COST</b>       | A             |                                   |           | 33.933     |         |           | 0.000      |         |           |            |
| Airframe PGSE                   | A             |                                   |           | 2.051      |         |           |            |         |           | 10.000     |
| Engine PGSE                     | A             |                                   |           | 0.000      |         |           |            |         |           | 2.000      |
| Avionics PGSE                   | A             |                                   |           | 0.495      |         |           |            |         |           | 3.891      |
| Peculiar Training Equipment     | A             |                                   |           | 0.550      |         |           |            |         |           | 30.513     |
| Publications/Technical Data     | A             |                                   |           | 0.000      |         |           |            |         |           | 6.000      |
| Other ILS                       | A             |                                   |           | 5.384      |         |           |            |         |           | 13.500     |
| Production Engr Support         | A             |                                   |           | 3.099      |         |           |            |         |           |            |
| Common SE                       | A             |                                   |           | 0.000      |         |           |            |         |           | 3.000      |
| <b>SUPPORT COST</b>             | A             |                                   |           | 11.579     |         |           |            |         |           | 68.904     |
| Gross P-1 Cost                  | A             |                                   |           | 45.512     |         |           | 0.000      |         |           | 68.904     |
| Advance Procurement (Credit)    | A             |                                   |           | 0.000      |         |           | 0.000      |         |           |            |
| Net P-1 Cost                    | A             |                                   |           | 45.512     |         |           | 0.000      |         |           | 68.904     |
| Advance Procurement             | A             |                                   |           | 0.004      |         |           |            |         |           | 10.100     |
| <b>Weapon System Cost</b>       | A             |                                   |           | 45.516     |         |           | 0.000      |         |           | 79.004     |
| Initial Spares                  | A             |                                   |           | 9.496      |         |           |            |         |           | 33.323     |
| <b>TOTAL PROGRAM</b>            |               |                                   |           | 55.012     |         |           | 0.000      |         |           | 112.327    |

**Comments**



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| <b>Exhibit P-5A, Procurement History and Planning</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 12</b> | P-1 Line Item Nomenclature<br><b>CV-22 (Osprey)</b> |
|--|---|

| <b>Weapon System</b>        |     |           |                 |                | 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? |
| FY2003 Advanced Procurement |     |           | NAVAIR          |                | SS              | Navy          | Bell-Boeing, Patuxent River MD  | Mar-03     |                        |                      |                           |
| Flight Training Device      | 1   | 15.173    | NAVAIR          |                | SS              | Navy          | Bell-Boeing, Patuxent River, MD | Mar-03     | Aug-04                 | Yes                  |                           |

**Remarks**

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**Exhibit P-21, Production Schedule** Date: February 2002

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. 12** **CV-22 (Osprey)**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |     |     |     |     |     |                    |     |     |     |     |     | FISCAL YEAR 2002   |     |     |     |     |     |     |     |     |           |     |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----|-----|-----------|
|                  |      |           |                            |                              | 2000             |     |     |     |     |     | CALENDAR YEAR 2001 |     |     |     |     |     | CALENDAR YEAR 2002 |     |     |     |     |     |     |     |     |           |     |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL       | AUG | SEP |           |
| 2001             | USAF | 0         | 0                          | 0                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 0         |     |     |           |
| 2002             | USAF | 0         | 0                          | 0                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 0         |     |     |           |
| 2003             | USAF | 0         | 0                          | 0                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 0         |     |     |           |
| 2004             | USAF | 2         | 0                          | 2                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 2         |     |     |           |
| 2005             | USAF | 3         | 0                          | 3                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 3         |     |     |           |
| 2006             | USAF | 4         | 0                          | 4                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 4         |     |     |           |
| 2007             | USAF | 3         | 0                          | 3                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | 3         |     |     |           |
| <b>TOTAL</b>     |      | <b>12</b> | <b>0</b>                   | <b>12</b>                    |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     | <b>12</b> |     |     |           |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| ITEM/MANUFACTURER'S NAME | LOCATION           | PRODUCTION RATES |                  |     | REACHED D+      | PROCUREMENT LEAD TIME |             |          |                   |    |
|--------------------------|--------------------|------------------|------------------|-----|-----------------|-----------------------|-------------|----------|-------------------|----|
|                          |                    | MIN SUST         | SHIFT HOURS DAYS | MAX |                 | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |    |
|                          |                    |                  |                  |     |                 | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |    |
| Bell-Boeing              | Patuxent River, MD | 12               |                  | 44  |                 |                       |             | 6        | 36                | 44 |
|                          |                    |                  |                  |     | INITIAL REORDER |                       |             |          |                   |    |

REMARKS  
 Minimum sustaining rate includes MV-22 production:

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**Exhibit P-21, Production Schedule** Date: February 2002

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. 12** **CV-22 (Osprey)**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2002 | BALANCE DUE AS OF 1 OCT 2002 | FISCAL YEAR 2003 |     |     |     |     |     |                    |     |     |     |     |     | FISCAL YEAR 2004   |     |     |     |     |     |     |     |     |     |           |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----|-----------|
|                  |      |           |                            |                              | 2002             |     |     |     |     |     | CALENDAR YEAR 2003 |     |     |     |     |     | CALENDAR YEAR 2004 |     |     |     |     |     |     |     |     |     |           |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG       | SEP |           |
| 2001             | USAF | 0         | 0                          | 0                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 0         |     |           |
| 2002             | USAF | 0         | 0                          | 0                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 0         |     |           |
| 2003             | USAF | 0         | 0                          | 0                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 0         |     |           |
| 2004             | USAF | 2         | 0                          | 2                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 2         |     |           |
| 2005             | USAF | 3         | 0                          | 3                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 3         |     |           |
| 2006             | USAF | 4         | 0                          | 4                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 4         |     |           |
| 2007             | USAF | 3         | 0                          | 3                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 3         |     |           |
| <b>TOTAL</b>     |      | <b>12</b> | <b>0</b>                   | <b>12</b>                    |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | <b>12</b> |     |           |

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| ITEM/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              |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |
|                          |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |
|                          |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |
|                          |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |

REMARKS

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 12</b> | P-1 Line Item Nomenclature<br><b>CV-22 (Osprey)</b> |
|--|---|

| 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 |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
|                  |      |           |                            |                              | 2004             |     |     |     | CALENDAR YEAR 2005 |     |     |     |     |     |     |     | CALENDAR YEAR 2006 |     |     |     |     |     |     |     |     |     |     |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB                | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |           |
| 2003             | USAF | 0         | 0                          | 0                            |                  |     |     |     |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| 2004             | USAF | 2         | 0                          | 2                            |                  |     |     |     |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| 2005             | USAF | 3         | 0                          | 3                            |                  |     |     |     |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| 2006             | USAF | 4         | 0                          | 4                            |                  |     |     |     |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| 2007             | USAF | 3         | 0                          | 3                            |                  |     |     |     |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| <b>TOTAL</b>     |      | <b>12</b> | <b>0</b>                   | <b>12</b>                    |                  |     |     |     |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |  |          |                   |  |  |  |  |
|--------------------------|----------|------------------|-------------|-------|------------|-----------------------|--|----------|-------------------|--|--|--|--|
|                          |          | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |  | MFG TIME | TOTAL AFTER 1 OCT |  |  |  |  |
| Bell-Boeing              |          |                  |             |       |            |                       |  |          |                   |  |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |  |

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| 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. 12</b> | <b>CV-22 (Osprey)</b> |
|---|-----------------------|

| 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 |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
|                  |      |           |                            |                              | 2006             |     |     |     |     | CALENDAR YEAR 2007 |     |     |     |     |     |     | CALENDAR YEAR 2008 |     |     |     |     |     |     |     |     |     |     |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR                | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |           |
| 2004             | USAF | 2         | 2                          | 0                            |                  |     |     |     |     |                    |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| 2005             | USAF | 3         | 0                          | 3                            |                  |     |     |     | 1   |                    |     | 1   |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| 2006             | USAF | 4         | 0                          | 4                            |                  |     |     |     |     |                    |     |     |     |     |     |     |                    | 1   |     |     |     | 1   |     |     | 1   |     |     |     |           |
| 2007             | USAF | 3         | 0                          | 3                            |                  |     |     |     |     |                    |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| <b>TOTAL</b>     |      | 12        | 2                          | 10                           |                  |     |     |     | 1   |                    |     | 1   |     |     |     |     |                    | 1   |     |     |     | 1   |     |     | 1   |     |     |     |           |

|  |  |  |  |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--|--|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |  |  |  |  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|--|--|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| ITEM/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              |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |
|                          |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 12</b> | P-1 Line Item Nomenclature<br><b>CV-22 (Osprey)</b> |
|--|---|

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2008 | BALANCE DUE AS OF 1 OCT 2008 | FISCAL YEAR 2009 |     |          |                    |     |     |     |          |     |     |     |          | FISCAL YEAR 2010 |     |     |                    |     |     |     |     |     |     |          |     | L A T E R |  |  |  |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|----------|--------------------|-----|-----|-----|----------|-----|-----|-----|----------|------------------|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|----------|-----|-----------|--|--|--|
|                  |      |           |                            |                              | 2008             |     |          | CALENDAR YEAR 2009 |     |     |     |          |     |     |     |          |                  |     |     | CALENDAR YEAR 2010 |     |     |     |     |     |     |          |     |           |  |  |  |
|                  |      |           |                            |                              | OCT              | NOV | DEC      | JAN                | FEB | MAR | APR | MAY      | JUN | JUL | AUG | SEP      | OCT              | NOV | DEC | JAN                | FEB | MAR | APR | MAY | JUN | JUL | AUG      | SEP |           |  |  |  |
| 2004             | USAF | 2         | 2                          | 0                            |                  |     |          |                    |     |     |     |          |     |     |     |          |                  |     |     |                    |     |     |     |     |     |     |          | 0   |           |  |  |  |
| 2005             | USAF | 3         | 3                          | 0                            |                  |     |          |                    |     |     |     |          |     |     |     |          |                  |     |     |                    |     |     |     |     |     |     |          | 0   |           |  |  |  |
| 2006             | USAF | 4         | 3                          | 1                            |                  |     | 1        |                    |     |     |     |          |     |     |     |          |                  |     |     |                    |     |     |     |     |     |     | 0        |     |           |  |  |  |
| 2007             | USAF | 3         | 0                          | 3                            |                  |     |          |                    |     | 1   |     |          |     |     |     | 1        |                  |     |     |                    |     |     |     |     |     |     | 0        |     |           |  |  |  |
| <b>TOTAL</b>     |      | <b>12</b> | <b>8</b>                   | <b>4</b>                     |                  |     | <b>1</b> |                    |     |     |     | <b>1</b> |     |     |     | <b>1</b> |                  |     |     |                    |     |     |     |     |     |     | <b>0</b> |     |           |  |  |  |
|                  |      |           |                            |                              | OCT              | NOV | DEC      | JAN                | FEB | MAR | APR | MAY      | JUN | JUL | AUG | SEP      | OCT              | NOV | DEC | JAN                | FEB | MAR | APR | MAY | JUN | JUL | AUG      | SEP |           |  |  |  |

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |  |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------|----------|------------------|-------------|-------|------------|-----------------------|--|----------|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                          |          | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |  | MFG TIME | TOTAL AFTER 1 OCT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Bell-Boeing              |          |                  |             |       |            |                       |  |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| <b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
|---|---------------------|

|  |   |
|--|---|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 12</b> | P-1 Line Item Nomenclature<br><b>CV-22 (Osprey)</b> |
|--|---|

**Weapon System CV-22**

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

| Fin Plan | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | Total  |
|----------|---------|---------|---------|---------|---------|---------|---------|--------|
| Quantity | 0       | 0       | 3       | 2       | 1       | 1       | 1       | 8      |
| Proc     | 0.595   | 0.000   | 30.513  | 12.395  | 18.779  | 13.471  | 23.863  | 99.616 |

**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 qualification training will be conducted at the Special Operations Mission Qualification Schoolhouse at Kirtland AFB, NM.

- The CV-22 Training System consists of five components:
- The CV-22 aircraft will be procured for unit level training at SOF bases
  - The CV-22 Weapon System Trainer (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. A WST has a three year procurement lead-time.
  - The CV-22 Operational Flight Trainer (OFT) is a full fidelity, non-motion based simulator with the same capabilities as the WST. OFTs require two year procurement lead-time
  - The Cabin Part-Task Trainer (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). The CPTT requires two years procurement lead-time and is required to be in place, ready for training, when the schoolhouse opens in FY06.
  - The Intermediate Multi-media Instruction-Operator (IMI-O) is software to train flight crew personnel which runs on standard office computers. The IMI-Maintenance (IMI-M) is similar but trains maintenance personnel. Each of these IMI capabilities requires two years procurement lead-time.

Procurement costs for the training systems will be split between USSOCOM (15%) and USAF (85%).



|                               |   |
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| P-1 Shopping List Item No. 12 | <b>Simulator and Training Device Justification (\$ M)</b><br>Exhibit P-43 p.1, page 9 of 12 |
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**Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)** Date: February 2002

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. 12** **CV-22 (Osprey)**

**Weapon System CV-22**

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

| IOC Date | TRAINING DEVICE BY TYPE                          | SITE      | DELIVERY TIME | READY TRAINING DATE | AVG STUDENT THROUGH PUT | FY 2001 |       | FY 2002 |      | FY 2003 |        |
|----------|--|-----------|---------------|---------------------|-------------------------|---------|-------|---------|------|---------|--------|
|          |  |           |               |                     |                         | QTY     | COST  | QTY     | COST | QTY     | COST   |
|          | Weapon System Trainer (WST)                      | Kirtland  | Mar-02        | Sep-04              | 41                      |         |       |         |      |         |        |
|          | Operational Flight Trainer (OFT)                 | Kirtland  | Dec-02        | Sep-04              | 41                      |         |       |         |      |         |        |
|          | OFT  | Hurlburt  | Aug-04        | Mar-05              | 62                      |         |       |         |      | 1       | 15.173 |
|          | Intermediate Multi-media Inst. -Operator (IMI-O) | Kirtland  | May-05        | May-05              |                         |         |       |         |      | 1       | 2.387  |
|          | IMI -Maintenance (IMI-M)                         | New River | May-05        | May-05              |                         |         |       |         |      | 1       | 8.160  |
|          | Cabin Part Task Trainer (CPPT)                   | Kirtland  | May-05        | Sep-05              | 72                      |         |       |         |      |         |        |
|          | WST  | Kirtland  | Nov-06        | Mar-07              | 41                      |         |       |         |      |         |        |
|          | CV-V-22 Maint. Trng. Suite (CV-VMTS)             | New River | Jan-09        | Jun-09              |                         |         |       |         |      |         |        |
|          | OFT  | PACOM     | Nov-08        | Mar-09              | 23                      |         |       |         |      |         |        |
|          | OFT  | Kirtland  | Nov-07        | Mar-08              | 23                      |         |       |         |      |         |        |
|          | OFT  | EUCOM     | Nov-10        | Mar-11              | 23                      |         |       |         |      |         |        |
|          | OFT  | CONUS2    | Nov-10        | Mar-13              | 62                      |         |       |         |      |         |        |
|          | ECPs & Support                                   |           |               |                     |                         |         | 0.595 |         |      |         | 4.793  |
|          | <b>TOTAL</b>                                     |           |               |                     |                         |         | 0.595 |         |      | 3       | 30.513 |

P-1 Shopping List Item No. 12

Simulator and Training Device Justification (\$ M)

Exhibit P-43 p.2, page 10 of 12



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| <b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 12</b> | P-1 Line Item Nomenclature<br><b>CV-22 (Osprey)</b> |
|--|---|

**Weapon System CV-22**

**Equipment Nomenclature: Aircrew Trainers**

**Description:**

| FINANCIAL PLAN              | FY 2001 |       | FY 2002 |      | FY 2003 |        | To Complete |         | Total Costs |         |
|-----------------------------|---------|-------|---------|------|---------|--------|-------------|---------|-------------|---------|
|                             | QTY     | COST  | QTY     | COST | QTY     | COST   | QTY         | COST    | QTY         | COST    |
| <b>Hardware Costs</b>       |         |       |         |      |         |        |             |         |             |         |
| WST                         |         |       |         |      |         |        | 1           | 14.790  | 1           | 14.790  |
| OFT                         |         |       |         |      | 1       | 15.173 | 4           | 74.322  | 6           | 103.831 |
| CPTT                        |         |       |         |      |         |        | 1           | 8.047   | 1           | 8.047   |
| <b>Total Hardware Costs</b> |         |       |         |      | 1       | 15.173 | 6           | 97.159  | 8           | 126.668 |
| <b>Support Costs</b>        |         |       |         |      |         |        |             |         |             |         |
|                             |         | 0.595 |         |      |         | 4.685  |             | 18.423  |             | 24.372  |
| <b>Total Support Costs</b>  |         | 0.595 |         |      |         | 4.685  |             | 18.423  |             | 24.372  |
|                             |         |       |         |      |         |        |             |         |             |         |
| <b>TOTAL COSTS</b>          |         | 0.595 |         |      | 1       | 19.858 | 6           | 115.582 | 8           | 151.040 |

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| <b>Exhibit P-43 p.4, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 12</b> | P-1 Line Item Nomenclature<br><b>CV-22 (Osprey)</b> |
|--|---|

**Weapon System CV-22**

**Equipment Nomenclature: Maintenance**

**Description:**

| FINANCIAL PLAN              | FY 2001 |      | FY 2002 |      | FY 2003 |        | To Complete |       | Total Costs |        |
|-----------------------------|---------|------|---------|------|---------|--------|-------------|-------|-------------|--------|
|                             | QTY     | COST | QTY     | COST | QTY     | COST   | QTY         | COST  | QTY         | COST   |
| <b>Hardware Costs</b>       |         |      |         |      |         |        |             |       |             |        |
| IMI-M                       |         |      |         |      | 1       | 8.160  |             |       | 1           | 8.160  |
| IMI-O                       |         |      |         |      | 1       | 2.387  | 1           | 2.550 | 2           | 4.940  |
| <b>Total Hardware Costs</b> |         |      |         |      | 2       | 10.547 | 1           | 2.550 | 3           | 13.100 |
| <b>Support Costs</b>        |         |      |         |      |         |        |             |       |             |        |
| Upgrade/ECP                 |         |      |         |      |         |        |             | 4.466 |             | 4.466  |
| Maint Delta Course          |         |      |         |      |         | 0.108  |             |       |             | 0.108  |
| <b>Total Support Costs</b>  |         |      |         |      |         | 0.108  |             | 4.466 |             | 4.574  |
| <b>TOTAL COSTS</b>          |         |      |         |      | 2       | 10.655 | 1           | 7.016 | 3           | 17.674 |

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 13</b> | P-1 Line Item Nomenclature<br><b>CV-22 (Osprey) Advance Procurement</b> |
|--|---|

| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         |         | PE 1160404 |         |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|------------|---------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 | To Comp    | Total   |
| Proc Qty                          | A       |             |         |         |                                 |         |         |         |         |            |         |
| Cost (\$ M)                       |         |             |         |         |                                 |         |         |         |         |            |         |
| Advance Proc Cost (\$ M )         |         |             | 22.712  | 0.000   | 10.100                          | 15.150  | 20.200  | 15.150  | 25.250  | 140.600    | 249.162 |
| Weapon System Cost (\$ M)         |         |             | 22.712  | 0.000   | 10.100                          | 15.150  | 20.200  | 15.150  | 25.250  | 140.600    | 249.162 |
| Initial Spares (\$ M)             |         |             |         |         |                                 |         |         |         |         |            |         |
| Total Proc Cost (\$ M)            |         |             | 22.712  | 0.000   | 10.100                          | 15.150  | 20.200  | 15.150  | 25.250  | 140.600    | 249.162 |
| Flyaway Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |            |         |
| Wpn Sys Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |            |         |

**Description**

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

**FY 2003 Program Justification**

In FY03 \$10.1M will fund Advance Procurement of Flight Critical items with a lead time in excess of 27 months.

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| <b>Exhibit P-10 p.1, Advance Procurement Requirements Analysis<br/>(Page 1 - Funding)</b> | Date: February 2002 |
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|  |   |
|--|---|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 13</b> | P-1 Line Item Nomenclature<br><b>CV-22 (Osprey) Advance Procurement</b> |
|--|---|

|                         |                                   |  |
|-------------------------|-----------------------------------|--|
| Weapon System<br>CV22AP | First System Award Date<br>Mar-03 | First System Completion Date<br>Feb-06 |
|-------------------------|-----------------------------------|--|

| (\$ in Millions)       |     |          |             |         |         |         |         |         |         |         |         |         |
|------------------------|-----|----------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Description            | PLT | When Rqd | Prior Years | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | To Comp | Total   |
| End Item Qty           | 38  | Mar-06   |             | 0       | 0       | 0       | 2       | 3       | 4       | 3       | 38      | 50      |
| CFE                    | 38  | Mar-06   | 21.996      | 22.708  |         | 10.071  | 15.107  | 20.142  | 15.107  | 25.175  | 44.226  | 174.532 |
| GFE                    |     |          |             |         |         |         |         |         |         |         |         |         |
| EOQ                    |     |          |             |         |         |         |         |         |         |         |         |         |
| Design                 |     |          |             |         |         |         |         |         |         |         |         |         |
| Term Liability         |     |          |             |         |         |         |         |         |         |         |         |         |
| GFE                    |     |          |             |         |         |         |         |         |         |         |         |         |
| ADF Antenna/Processor  | 12  | Feb-05   | N/A         | 0.000   |         | 0.021   | 0.031   | 0.042   | 0.031   | 0.053   | 0.130   | 0.308   |
| ARN-147 (V)            | 12  | Sep-04   | N/A         | 0.000   |         | 0.004   | 0.006   | 0.008   | 0.006   | 0.011   | 0.012   | 0.047   |
| Radar Altimeter Ant.   | 12  | Jan-05   | N/A         | 0.004   |         | 0.003   | 0.004   | 0.006   | 0.004   | 0.007   | 0.008   | 0.036   |
| External Power Monitor | 12  | Jan-05   | N/A         | 0.000   |         | 0.001   | 0.002   | 0.002   | 0.002   | 0.004   | 0.004   | 0.015   |
| <b>TOTAL AP</b>        |     |          | 21.996      | 22.712  |         | 10.100  | 15.150  | 20.200  | 15.150  | 25.250  | 44.380  | 174.938 |

**Description:**

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| <b>Exhibit P-10 p.2, Advance Procurement Requirements Analysis<br/>(Page 2 - Budget Justification)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 13</b> | P-1 Line Item Nomenclature<br><b>CV-22 (Osprey) Advance Procurement</b> |
|--|---|

Weapon System  
CV22AP

(TOA, \$ in Millions)

| Description            | PLT | OPA | Unit Cost | 2001 QTY | 2001                         | 2001 Total      | 2002 QTY | 2002                         | 2002 Total      | 2003 QTY | 2003                         | 2003 Total      |
|------------------------|-----|-----|-----------|----------|------------------------------|-----------------|----------|------------------------------|-----------------|----------|------------------------------|-----------------|
|                        |     |     |           |          | Contract<br>Forecast<br>Date | Cost<br>Request |          | Contract<br>Forecast<br>Date | Cost<br>Request |          | Contract<br>Forecast<br>Date | Cost<br>Request |
| End Item               |     |     |           |          |                              |                 |          |                              |                 |          |                              |                 |
| CFE                    | 38  | 1   |           |          |                              |                 |          |                              |                 |          |                              | 10.071          |
| GFE                    |     |     |           |          |                              |                 |          |                              |                 |          |                              |                 |
| EOQ                    |     |     |           |          |                              |                 |          |                              |                 |          |                              |                 |
| Design                 |     |     |           |          |                              |                 |          |                              |                 |          |                              |                 |
| Term Liability         |     |     |           |          |                              |                 |          |                              |                 |          |                              |                 |
| GFE                    |     |     |           |          |                              |                 |          |                              |                 |          |                              |                 |
| ADF Antenna/Processor  | 12  | 1   | 0.011     |          |                              |                 |          |                              |                 | 2        | Jan-03                       | 0.021           |
| ARN-147 (V)            | 12  | 1   | 0.002     |          |                              |                 |          |                              |                 | 2        | Jan-03                       | 0.004           |
| Radar Altimeter Ant.   | 12  | 2   | 0.001     |          |                              |                 |          |                              |                 | 4        | Jan-03                       | 0.003           |
| External Power Monitor | 12  | 1   | 0.001     |          |                              |                 |          |                              |                 | 2        | Jan-03                       | 0.001           |
| <b>TOTAL AP</b>        |     |     |           |          |                              |                 |          |                              |                 |          |                              | <b>10.100</b>   |

**Description:**

P-1 Shopping List Item No. 13

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 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 14</b> | P-1 Line Item Nomenclature<br><b>C-32B FEST/DEST AIRCRAFT</b> |
|--|---|

| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         |         | None    |         |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|---------|---------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 | To Comp | Total   |
| Proc Qty                          | A       | 1           | 0       | 1       | 0                               | 0       | 0       | 0       | 0       | 0       | 2       |
| Total Proc Cost (\$ M)            |         | 73.000      | 0.000   | 72.451  | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |         | 145.451 |

**Description**  
 This line item provides funds to procure two (2) C-32B aircraft, required mission enhancements, and associated initial support required for the aircraft. These aircraft will replace aging Gatekeeper aircraft to provide increased capability in support of worldwide operations to select government agencies on the recommendation of the National Security Council and the Department of Defense (DoD). One (1) aircraft with associated support will be purchased in FY00 and the second in FY02.

**FY 2003 Program Justification**

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 14</b> | P-1 Line Item Nomenclature<br><b>C-32B FEST/DEST AIRCRAFT</b> |
|--|---|

|  |              |
|--|--------------|
| Manufacturer's Name/Plant City/State Location<br>Boeing Aerospace/Seattle/WA | Subline Item |
|--|--------------|

| Weapon System<br>Cost Elements | Ident<br>Code | Total Cost In Millions of Dollars |           |            |         |           |               |         |           |            |
|--------------------------------|---------------|-----------------------------------|-----------|------------|---------|-----------|---------------|---------|-----------|------------|
|                                |               | FY 2001                           |           |            | FY 2002 |           |               | FY 2003 |           |            |
|                                |               | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost    | Qty     | Unit Cost | Total Cost |
| Aircraft                       | A             |                                   |           |            | 1       |           | 36.000        |         |           |            |
| Equipment Lease                | A             |                                   |           |            |         |           |               |         |           |            |
| Mission Equipment              | A             |                                   |           |            |         |           | 24.000        |         |           |            |
| <b>FLYAWAY COST SUBTOTAL</b>   | A             |                                   |           |            |         |           | <b>60.000</b> |         |           |            |
| Support Equipment              | A             |                                   |           |            |         |           | 12.451        |         |           |            |
| <b>SUPPORT COST SUBTOTAL</b>   | A             |                                   |           |            |         |           | <b>12.451</b> |         |           |            |
| <b>TOTAL PROGRAM</b>           |               |                                   |           |            |         |           | <b>72.451</b> |         |           |            |

**Comments**



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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 14</b> | P-1 Line Item Nomenclature<br><b>C-32B FEST/DEST AIRCRAFT</b> |
|--|---|

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |     |     |     |     |     |                    |     |     |     |     |     | FISCAL YEAR 2002   |     |     |     |     |     |     |     |     |     |          |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----------|
|                  |      |           |                            |                              | 2000             |     |     |     |     |     | CALENDAR YEAR 2001 |     |     |     |     |     | CALENDAR YEAR 2002 |     |     |     |     |     |     |     |     |     |          |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG      | SEP |           |
| 2000             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 0        |     |           |
| 2001             | USAF | 0         | 0                          | 0                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 0        |     |           |
| 2002             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 1        |     |           |
| <b>TOTAL</b>     |      | <b>2</b>  | <b>0</b>                   | <b>2</b>                     |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | <b>1</b> |     |           |

| ITEM/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 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |             |                  |                  |       | PRIOR 1 OCT | AFTER 1 OCT           |  |          |                   |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Boeing Aerospace         | Seattle, WA | 1                |                  | 1     |             |                       |  |          |                   |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |             |                  |                  |       |             |                       |  |          |                   |                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**REMARKS**  
The aircraft selected is a used Boeing 757-200 (C-32B). The modification contractor is Raytheon, Greenville, TX.

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| Exhibit P-21, Production Schedule  |      |           |                            |                              | Date: February 2002        |                  |     |                    |     |                 |             |     |          |                   |                 |     |                    |     |     |     |     |     |     |     |     |     |     |     |        |  |
|--|------|-----------|----------------------------|------------------------------|----------------------------|------------------|-----|--------------------|-----|-----------------|-------------|-----|----------|-------------------|-----------------|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|--|
| 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. 14 |      |           |                            |                              | C-32B FEST/DEST AIRCRAFT   |                  |     |                    |     |                 |             |     |          |                   |                 |     |                    |     |     |     |     |     |     |     |     |     |     |     |        |  |
| PROCUREMENT YEAR   | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2002 | BALANCE DUE AS OF 1 OCT 2002 | FISCAL YEAR 2003           |                  |     |                    |     |                 |             |     |          |                   |                 |     | FISCAL YEAR 2004   |     |     |     |     |     |     |     |     |     |     |     | LATERR |  |
|  |      |           |                            |                              | 2002                       |                  |     | CALENDAR YEAR 2003 |     |                 |             |     |          |                   |                 |     | CALENDAR YEAR 2004 |     |     |     |     |     |     |     |     |     |     |     |        |  |
|  |      |           |                            |                              | OCT                        | NOV              | DEC | JAN                | FEB | MAR             | APR         | MAY | JUN      | JUL               | AUG             | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |        |  |
| 2000   | USAF | 0         | 0                          | 0                            |                            |                  |     |                    |     |                 |             |     |          |                   |                 |     |                    |     |     |     |     |     |     |     |     |     |     |     | 0      |  |
| 2001   | USAF | 0         | 0                          | 0                            |                            |                  |     |                    |     |                 |             |     |          |                   |                 |     |                    |     |     |     |     |     |     |     |     |     |     |     | 0      |  |
| 2002   | USAF | 1         | 0                          | 1                            |                            |                  |     |                    |     |                 |             |     |          |                   |                 |     |                    |     |     |     |     | 1   |     |     |     |     |     |     | 0      |  |
| TOTAL  |      | 1         | 0                          | 1                            |                            |                  |     |                    |     |                 |             |     |          |                   |                 |     |                    |     |     |     |     | 1   |     |     |     |     |     |     | 0      |  |
|  |      |           |                            |                              | OC                         | NO               | DE  | JA                 | FE  | MA              | AP          | MA  | JU       | JU                | AU              | SE  | OC                 | NO  | DE  | JA  | FE  | MA  | AP  | MA  | JU  | JU  | AU  | SE  |        |  |
|  |      |           |                            |                              | TC                         | TV               | EC  | AN                 | EB  | AR              | PR          | AY  | UN       | LG                | PT              | VT  | VC                 | EN  | BE  | CR  | NR  | BR  | RY  | YN  | LN  | UG  | PE  | CV  | CP     |  |
|  |      |           | PRODUCTION RATES           |                              | PROCUREMENT LEAD TIME      |                  |     |                    |     |                 |             |     |          |                   |                 |     |                    |     |     |     |     |     |     |     |     |     |     |     |        |  |
| ITEM/MANUFACTURER'S NAME   |      |           | LOCATION                   |                              | MIN SUST                   | SHIFT HOURS DAYS | MAX | REACHED D+         |     | ADMIN LEAD TIME |             |     | MFG TIME | TOTAL AFTER 1 OCT |                 |     |                    |     |     |     |     |     |     |     |     |     |     |     |        |  |
| Boeing Aerospace   |      |           |                            |                              |                            |                  |     |                    |     | PRIOR 1 OCT     | AFTER 1 OCT |     |          |                   |                 |     |                    |     |     |     |     |     |     |     |     |     |     |     |        |  |
| REMARKS  |      |           |                            |                              |                            |                  |     |                    |     |                 |             |     |          |                   | INITIAL REORDER |     |                    |     |     |     |     |     |     |     |     |     |     |     |        |  |

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 16</b> | P-1 Line Item Nomenclature<br><b>Operational Support Aircraft</b> |
|--|---|

| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         |         | N/A |         |         |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|-----|---------|---------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |     | To Comp | Total   |
| Proc Qty                          | A       | 1           | 1       | 0       | 0                               | 0       | 0       | 0       | 0       |     | 0       | 2       |
| Total Proc Cost (\$ M)            |         | 62.331      | 69.160  | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |     | 0.000   | 131.491 |

**Description**  
 This line item funds two C-40B aircraft for supporting the combatant Commanders in Chief. One aircraft was directed by the FY00 Appropriations Act; the other by the FY01 Appropriations Act. These aircraft will replace aging CINC support aircraft currently in use. The C-40B is a long-range, military variant of the commercial Boeing 737-700 passenger jet. It provides improved reliability, reduced O&S cost, the latest navigation and safety features, and complies with FAA and international noise and emissions standards.

**FY 2003 Program Justification**

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 16</b> | P-1 Line Item Nomenclature<br><b>Operational Support Aircraft</b> |
|--|---|

|   |              |
|---|--------------|
| Manufacturer's Name/Plant City/State Location | Subline Item |
|---|--------------|

|                              |  |
|------------------------------|--|
| Boeing Aerospace/Seattle, WA |  |
|------------------------------|--|

| Weapon System Cost Elements | Ident Code | Total Cost In Millions of Dollars |           |            |         |           |            |         |           |            |
|-----------------------------|------------|-----------------------------------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
|                             |            | FY 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|                             |            | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| Aircraft                    | A          | 1                                 |           | 69.160     |         |           |            |         |           |            |
| FLYAWAY COST SUBTOTAL       | A          |                                   |           | 69.160     |         |           |            |         |           |            |
| SUPPORT COST SUBTOTAL       | A          |                                   |           |            |         |           |            |         |           |            |
| <b>TOTAL PROGRAM</b>        |            |                                   |           | 69.160     |         |           |            |         |           |            |

**Comments**

Does not reflect reprogrammings of \$300K in FY01 and \$200K in FY01.

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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|  |   |
|--|---|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 16</b> | P-1 Line Item Nomenclature<br><b>Operational Support Aircraft</b> |
|--|---|

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |     |     |     |     |     |                    |   |   |   |   |   | FISCAL YEAR 2002   |   |   |   |   |   |   |   |   |   |   |   | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|---|---|---|---|---|--------------------|---|---|---|---|---|---|---|---|---|---|---|-----------|
|                  |      |           |                            |                              | 2000             |     |     |     |     |     | CALENDAR YEAR 2001 |   |   |   |   |   | CALENDAR YEAR 2002 |   |   |   |   |   |   |   |   |   |   |   |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | A                  | M | J | J | A | S | O                  | N | D | J | F | M | A | M | J | J | A | S |           |
| 2000             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |   |   |   |   |           |
| 2001             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |   |   |   |   |           |
| <b>TOTAL</b>     |      | <b>2</b>  | <b>0</b>                   | <b>2</b>                     |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |   |   |   |   |           |

| ITEM/MANUFACTURER'S NAME | LOCATION            | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |             |          |                   |  |  |  |  |  |
|--------------------------|---------------------|------------------|-------------|-------|------------|-----------------------|-------------|----------|-------------------|--|--|--|--|--|
|                          |                     | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |  |  |  |  |  |
|                          |                     |                  |             |       |            | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |  |  |  |  |  |
| Boeing Aerospace         | Seattle, Washington |                  |             |       |            |                       |             |          |                   |  |  |  |  |  |
|                          |                     |                  |             |       | INITIAL    |                       |             |          |                   |  |  |  |  |  |
|                          |                     |                  |             |       | REORDER    |                       |             |          |                   |  |  |  |  |  |

**REMARKS**  
Aircraft is a military variant of the Boeing 737-700.

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 17</b> | P-1 Line Item Nomenclature<br><b>Target Drones</b> |
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| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         |         | 64735F |         |         |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|--------|---------|---------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |        | To Comp | Total   |
| Proc Qty                          | A       |             |         |         |                                 |         |         |         |         |        |         |         |
| Cost (\$ M)                       |         |             | 22.884  | 34.784  | 30.586                          | 51.180  | 38.574  | 39.319  | 40.067  |        |         | 257.394 |
| Advance Proc Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |        |         |         |
| Weapon System Cost (\$ M)         |         |             | 22.884  | 34.784  | 30.586                          | 51.180  | 38.574  | 39.319  | 40.067  |        |         | 257.394 |
| Initial Spares (\$ M)             |         |             | 0.610   | 0.101   | 0.820                           | 0.991   | 0.494   | 0.494   | 0.494   |        |         | 4.004   |
| Total Proc Cost (\$ M)            |         |             | 23.494  | 34.885  | 31.406                          | 52.171  | 39.068  | 39.813  | 40.561  |        |         | 261.398 |
| Flyaway Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |        |         |         |
| Wpn Sys Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |        |         |         |

**Description**  
 The target drones program funds for aerial targets to ensure air-to-air weapons effectiveness and mission proficiency of Air Force tactical weapon systems. The objective is to improve air-to-air weapon system accuracy and reliability by developing aerial target systems for Air Force weapons system test and evaluation. This program provides funds for the procurement of full scale (QF-4) and subscale aerial targets required for Congressionally mandated live fire tests. FY03 AFSAT procurement (8 AFSAT) delayed until FY04. FY04 AFSAT buy increased from 35 to 43.

**FY 2003 Program Justification**  
 FY03 fund QF-4 fulscale aerial targets (12 in FY03) required to meet existing development and operational test requirements. 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.

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| Exhibit P-5, Weapon System Cost Analysis   |               |                                   |           |            |              |           | Date: February 2002        |         |           |            |
|--|---------------|-----------------------------------|-----------|------------|--------------|-----------|----------------------------|---------|-----------|------------|
| 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 |               |                                   |           |            |              |           | 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<br>Cost Elements   | Ident<br>Code | Total Cost In Millions of Dollars |           |            |              |           |                            |         |           |            |
|  |               | FY 2001                           |           |            | FY 2002      |           |                            | FY 2003 |           |            |
|  |               | 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             | 11                                | 0.645     | 7.099      | 11           | 0.660     | 7.265                      | 12      | 0.710     | 8.520      |
| Scoring System (VDOPS)   | A             |                                   |           |            |              |           |                            |         |           |            |
| F-4 In Plant Repairs   | A             |                                   |           | 0.272      |              |           | 0.239                      |         |           | 0.293      |
| INS Incorporation  | A             |                                   |           |            |              |           | 0.605                      |         |           | 0.660      |
| Engineering Change Orders (ECO)  | A             |                                   |           | 1.194      |              |           | 0.217                      |         |           | 1.124      |
| Warranty   | A             |                                   |           | 0.180      |              |           | 0.194                      |         |           | 0.197      |
| Aircraft Withdrawal / Aerospace Maintenance and Re                               | A             |                                   |           |            |              |           |                            |         |           |            |
| Restricted Manned Perf to 3G   | A             |                                   |           |            | 10           | 0.471     | 4.712                      | 10      | 0.485     | 4.846      |
| Unrestricted Manned Perf to 6G   | A             | 11                                | 0.758     | 8.338      | 1            | 0.827     | 0.827                      | 2       | 0.843     | 1.685      |
| MILSTRIP RSD   | A             |                                   |           | 0.150      |              |           | 0.150                      |         |           | 0.150      |
| MILSTRIP EOQ   | A             |                                   |           | 0.200      |              |           | 0.200                      |         |           | 0.200      |
| FLYAWAY COST SUBTOTAL  | A             |                                   |           | 17.433     |              |           | 14.409                     |         |           | 17.675     |
| QF-4 Support Cost  | A             |                                   |           |            |              |           |                            |         |           |            |
| Data Tech Manuals  | A             |                                   |           | 0.062      |              |           | 0.065                      |         |           | 0.069      |
| On Call Engineering Support  | A             |                                   |           | 0.027      |              |           | 0.028                      |         |           | 0.030      |
| Prime Contractor Technical Support   | A             |                                   |           | 0.122      |              |           | 0.127                      |         |           | 0.129      |
| Alternate Mission Equipment  | A             |                                   |           |            |              |           |                            |         |           |            |
| Government Support   | A             |                                   |           | 1.947      |              |           | 3.375                      |         |           | 3.421      |
| SUPPORT COST SUBTOTAL  | A             |                                   |           | 2.158      |              |           | 3.595                      |         |           | 3.649      |
| INITIAL SPARES   | A             |                                   |           | 0.610      |              |           | 0.101                      |         |           | 0.820      |
| BQM-34 SUBSCALE FLYAWAY COST   | A             |                                   |           |            |              |           |                            |         |           |            |
| Airframes  | A             |                                   |           |            |              |           |                            |         |           |            |

P-1 Shopping List Item No. 17

Weapon System Cost Analysis

Exhibit P-5, page 2 of 18



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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 17</b> | P-1 Line Item Nomenclature<br><b>Target Drones</b> |
|--|--|

| Weapon System Cost Elements          | Ident Code | Total Cost In Millions of Dollars |           |            |         |           |            |         |           |            |
|--------------------------------------|------------|-----------------------------------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
|                                      |            | FY 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|                                      |            | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| ECO                                  | A          |                                   |           | 0.910      |         |           |            |         |           |            |
| GFE                                  | A          |                                   |           |            |         |           |            |         |           |            |
| Engines                              | A          |                                   |           |            |         |           |            |         |           |            |
| IFF (L-Band) Transponders            | A          |                                   |           |            |         |           |            |         |           |            |
| Locator Beacons                      | A          |                                   |           |            |         |           |            |         |           |            |
| <b>BQM-34 FLYAWAY COST SUB TOTAL</b> | A          |                                   |           | 1.520      |         |           | 0.101      |         |           | 0.820      |
| BQM-34 Support Cost                  | A          |                                   |           |            |         |           |            |         |           |            |
| Data Tech Manuals                    | A          |                                   |           |            |         |           |            |         |           |            |
| NTSSAT FAAT Testing                  | A          |                                   |           |            |         |           |            |         |           |            |
| Government Testing                   | A          |                                   |           |            |         |           |            |         |           |            |
| Government Support                   | A          |                                   |           | 0.950      |         |           |            |         |           |            |
| On Site Support Redstone Arsenal     | A          |                                   |           | 0.158      |         |           |            |         |           |            |
| Technical Support                    | A          |                                   |           | 1.275      |         |           |            |         |           |            |
| Other                                | A          |                                   |           |            |         |           |            |         |           |            |
| Alternate Mission Equipment          | A          |                                   |           |            |         |           |            |         |           |            |
| <b>BQM-34 SUPPORT COST SUBTOTAL</b>  | A          |                                   |           | 2.383      |         |           |            |         |           |            |
| AFSAT                                | A          |                                   |           |            |         |           |            |         |           |            |
| Production Set up                    | A          |                                   |           |            |         |           | 2.060      |         |           | 4.233      |
| Pre-Production article               | A          |                                   |           |            | 6       |           | 11.522     |         |           |            |
| Production article                   | A          |                                   |           |            |         |           |            | 0       |           | 0.000      |
| ECO                                  | A          |                                   |           |            |         |           |            |         |           | 0.200      |
| Data/Tech Manuals                    | A          |                                   |           |            |         |           |            |         |           | 0.548      |
| First Article Acceptance Testing     | A          |                                   |           |            |         |           |            |         |           | 0.122      |
| Formal Qualification Testing (FQT)   | A          |                                   |           |            |         |           |            |         |           | 0.670      |
| Peculiar Support Equipment (PSE)     | A          |                                   |           |            |         |           |            |         |           | 0.350      |
| Primary Mission Equipment (PME)      | A          |                                   |           |            |         |           |            |         |           |            |
| AFSAT Support Cost                   | A          |                                   |           |            |         |           |            |         |           |            |
| Government Support                   | A          |                                   |           |            |         |           | 1.579      |         |           | 1.548      |
| Special Program Requirements         | A          |                                   |           |            |         |           |            |         |           |            |

P-1 Shopping List Item No. 17

Weapon System Cost Analysis

Exhibit P-5, page 3 of 18

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 17</b> | P-1 Line Item Nomenclature<br><b>Target Drones</b> |
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| Weapon System<br>Cost Elements | Ident<br>Code | Total Cost In Millions of Dollars |           |               |         |           |               |         |           |               |
|--------------------------------|---------------|-----------------------------------|-----------|---------------|---------|-----------|---------------|---------|-----------|---------------|
|                                |               | FY 2001                           |           |               | FY 2002 |           |               | FY 2003 |           |               |
|                                |               | Qty                               | Unit Cost | Total<br>Cost | Qty     | Unit Cost | Total<br>Cost | Qty     | Unit Cost | Total<br>Cost |
| ICS                            | A             |                                   |           |               |         |           |               |         |           |               |
| Technical Support              | A             |                                   |           |               |         |           | 1.619         |         |           | 1.591         |
| <b>TOTAL PROGRAM</b>           |               |                                   |           | 23.494        |         |           | 34.885        |         |           | 31.406        |

**Comments**

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| <b>Exhibit P-5A, Procurement History and Planning</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 17</b> | P-1 Line Item Nomenclature<br><b>Target Drones</b> |
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| <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  | 0.966     | AAC/WRA         |                | C               | FFP           | BAE SYSTEMS, MOJAVE, CA                 | Dec-99     | Jun-00                 | Yes                  |                           |  |
| FY01 (QF-4)          | 11  | 1.557     | AAC/WRA         |                | C               | FFP           | BAE SYSTEMS, MOJAVE, CA                 | Feb-01     | Jun-01                 | Yes                  |                           |  |
| FY02 (QF-4)          | 11  | 1.223     | AAC/WRA         |                | C               | FFP           | BAE SYSTEMS, MOJAVE, CA                 | Dec-01     | Jun-02                 | Yes                  |                           |  |
| FY03 (QF-4)          | 12  | 1.293     | AAC/WMR         |                | C               | FFP           | BAE SYSTEMS, MOJAVE, CA                 | Feb-03     | Jun-04                 | Yes                  |                           |  |
| FY00 (BQM-34)        | 32  | 0.457     | AAC/WRA         |                | C               | FFP           | NORTHROP GRUMMAN (BQM-34), SAN DIEGO CA | Nov-99     | Apr-01                 | Yes                  |                           |  |
| FY02 (AFSAT)         | 6   | 2.367     | AAC/WRA         |                | C               | FFP           | TBD                                     | Apr-02     | Aug-03                 | No                   | Mar-02                    |  |

**Remarks**





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**Exhibit P-21, Production Schedule** Date: February 2002

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** **Target Drones**

| 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 |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----|-----|-----------|
|                  |      |           |                            |                              | 2004             |          |          |          | CALENDAR YEAR 2005 |          |          |          |          |          |          |          | CALENDAR YEAR 2006 |          |          |          |          |          |          |          |          |           |     |     |           |
|                  |      |           |                            |                              | OCT              | NOV      | DEC      | JAN      | FEB                | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      | OCT                | NOV      | DEC      | JAN      | FEB      | MAR      | APR      | MAY      | JUN      | JUL       | AUG | SEP |           |
| 2003             | USAF | 12        | 2                          | 10                           | 1                | 1        | 1        | 1        | 1                  | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1                  | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 0         |     |     |           |
| 2004             | USAF | 12        | 0                          | 12                           |                  |          |          |          |                    |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 0         |     |     |           |
| 2005             | USAF | 12        | 0                          | 12                           |                  |          |          |          |                    |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          | 1        | 1         | 10  |     |           |
| 2006             | USAF | 12        | 0                          | 12                           |                  |          |          |          |                    |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 12        |     |     |           |
| 2007             | USAF | 12        | 0                          | 12                           |                  |          |          |          |                    |          |          |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 12        |     |     |           |
| <b>TOTAL</b>     |      | <b>60</b> | <b>2</b>                   | <b>58</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>1</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>1</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>34</b> |     |     |           |

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |             |       | REACHED D+      | PROCUREMENT LEAD TIME |             |          |  | TOTAL AFTER 1 OCT |
|--------------------------|----------|------------------|-------------|-------|-----------------|-----------------------|-------------|----------|--|-------------------|
|                          |          | MIN SUST         | SHIFT HOURS | M A X |                 | ADMIN LEAD TIME       |             | MFG TIME |  |                   |
|                          |          |                  |             |       | INITIAL REORDER | PRIOR 1 OCT           | AFTER 1 OCT |          |  |                   |
| OF-4/BAE Systems         |          |                  |             |       |                 |                       |             |          |  |                   |
|                          |          |                  |             |       |                 |                       |             |          |  |                   |
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REMARKS







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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 17</b> | P-1 Line Item Nomenclature<br><b>Target Drones</b> |
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| PROCUREMENT YEAR                | SERV | PROC. QTY               | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001             |     |     |                 |     |     |             |          |     |     |             |                   | FISCAL YEAR 2002   |     |     |     |     |     |     |     |     |     |           |     | LATRE |
|---------------------------------|------|-------------------------|----------------------------|------------------------------|------------------------------|-----|-----|-----------------|-----|-----|-------------|----------|-----|-----|-------------|-------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----|-------|
|                                 |      |                         |                            |                              | CALENDAR YEAR 2001           |     |     |                 |     |     |             |          |     |     |             |                   | CALENDAR YEAR 2002 |     |     |     |     |     |     |     |     |     |           |     |       |
|                                 |      |                         |                            |                              | OCT                          | NOV | DEC | JAN             | FEB | MAR | APR         | MAY      | JUN | JUL | AUG         | SEP               | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG       | SEP |       |
| 1998                            | USAF | 8                       | 0                          | 8                            |                              |     |     |                 |     |     |             |          |     |     |             |                   |                    |     |     |     |     |     |     |     |     |     | 8         |     |       |
| 1999                            | USAF | 15                      | 0                          | 15                           |                              |     |     |                 |     |     |             |          |     |     |             |                   |                    |     |     |     |     |     |     |     |     |     | 15        |     |       |
| 2000                            | USAF | 32                      | 0                          | 32                           |                              |     |     |                 |     |     |             |          |     |     |             |                   |                    |     |     |     |     |     |     |     |     |     | 32        |     |       |
| <b>TOTAL</b>                    |      | <b>55</b>               | <b>0</b>                   | <b>55</b>                    |                              |     |     |                 |     |     |             |          |     |     |             |                   |                    |     |     |     |     |     |     |     |     |     | <b>55</b> |     |       |
|                                 |      |                         |                            |                              | OCT                          | NOV | DEC | JAN             | FEB | MAR | APR         | MAY      | JUN | JUL | AUG         | SEP               | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG       | SEP |       |
|                                 |      | <b>PRODUCTION RATES</b> |                            |                              | <b>PROCUREMENT LEAD TIME</b> |     |     |                 |     |     |             |          |     |     |             |                   |                    |     |     |     |     |     |     |     |     |     |           |     |       |
|                                 |      | MIN SUST                | SHIFT HOURS                | M AX                         | REACHED D+                   |     |     | ADMIN LEAD TIME |     |     |             | MFG TIME |     |     |             | TOTAL AFTER 1 OCT |                    |     |     |     |     |     |     |     |     |     |           |     |       |
| <b>ITEM/MANUFACTURER'S NAME</b> |      | <b>LOCATION</b>         |                            |                              |                              |     |     |                 |     |     |             |          |     |     |             |                   |                    |     |     |     |     |     |     |     |     |     |           |     |       |
| Northrop Grumman (BOM-34)       |      | San Diego, CA           |                            |                              | 4                            | 7   | 7   |                 |     |     | PRIOR 1 OCT |          |     |     | AFTER 1 OCT |                   |                    |     |     |     |     |     |     |     |     |     |           |     |       |
|                                 |      |                         |                            |                              |                              |     |     | INITIAL         |     |     |             | REORDER  |     |     |             |                   |                    |     |     |     |     |     |     |     |     |     |           |     |       |
|                                 |      |                         |                            |                              |                              |     |     | 0               |     |     |             | 5        |     |     |             | 6                 |                    |     |     | 12  |     |     |     |     |     |     |           |     |       |
|                                 |      |                         |                            |                              |                              |     |     | 0               |     |     |             | 5        |     |     |             | 6                 |                    |     |     | 12  |     |     |     |     |     |     |           |     |       |
| <b>REMARKS</b>                  |      |                         |                            |                              |                              |     |     |                 |     |     |             |          |     |     |             |                   |                    |     |     |     |     |     |     |     |     |     |           |     |       |
| 0                               |      |                         |                            |                              |                              |     |     |                 |     |     |             |          |     |     |             |                   |                    |     |     |     |     |     |     |     |     |     |           |     |       |

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 17</b> | P-1 Line Item Nomenclature<br><b>Target Drones</b> |
|--|--|

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2002 | BALANCE DUE AS OF 1 OCT 2002 | FISCAL YEAR 2003 |          |          |          |          |          |                    |     |     |     |     |     | FISCAL YEAR 2004   |     |     |     |     |     |     |     |          |     |     |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|----------|----------|----------|----------|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|-----|-----------|
|                  |      |           |                            |                              | 2002             |          |          |          |          |          | CALENDAR YEAR 2003 |     |     |     |     |     | CALENDAR YEAR 2004 |     |     |     |     |     |     |     |          |     |     |     |           |
|                  |      |           |                            |                              | OCT              | NOV      | DEC      | JAN      | FEB      | MAR      | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN      | JUL | AUG | SEP |           |
| 1998             | USAF | 8         | 0                          | 8                            |                  | 8        |          |          |          |          |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |          | 0   |     |     |           |
| 1999             | USAF | 15        | 0                          | 15                           |                  |          | 8        | 7        |          |          |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |          | 0   |     |     |           |
| 2000             | USAF | 32        | 0                          | 32                           |                  |          |          | 1        | 8        | 8        | 8                  | 7   |     |     |     |     |                    |     |     |     |     |     |     |     | 0        |     |     |     |           |
| <b>TOTAL</b>     |      | <b>55</b> | <b>0</b>                   | <b>55</b>                    |                  | <b>8</b> | <b>8</b> | <b>8</b> | <b>8</b> | <b>8</b> | <b>7</b>           |     |     |     |     |     |                    |     |     |     |     |     |     |     | <b>0</b> |     |     |     |           |

| ITEM/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 |  |  |          |                   |  |  |  |
| Northrop Grumman (BOM-34) |          |                  |                  |       |            |                       |             |  |  |          |                   |  |  |  |
|                           |          |                  |                  |       |            |                       |             |  |  |          |                   |  |  |  |
|                           |          |                  |                  |       |            |                       |             |  |  |          |                   |  |  |  |
|                           |          |                  |                  |       |            |                       |             |  |  |          |                   |  |  |  |

REMARKS

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number | P-1 Line Item Nomenclature |
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| <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 17</b> | <b>Target Drones</b> |
|---|----------------------|

| PROCUREMENT YEAR | SERV | PROC. QTY  | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |     |     |     |     |     |                    |     |     |     |     |     | FISCAL YEAR 2002   |     |     |     |     |     |     |     |     |     |            |     | L A T E R |
|------------------|------|------------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------|-----|-----------|
|                  |      |            |                            |                              | 2000             |     |     |     |     |     | CALENDAR YEAR 2001 |     |     |     |     |     | CALENDAR YEAR 2002 |     |     |     |     |     |     |     |     |     |            |     |           |
|                  |      |            |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG        | SEP |           |
| 2002             | USAF | 6          | 0                          | 6                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 6          |     |           |
| 2003             | USAF | 0          | 0                          | 0                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 0          |     |           |
| 2004             | USAF | 43         | 0                          | 43                           |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 43         |     |           |
| 2005             | USAF | 20         | 0                          | 20                           |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 20         |     |           |
| 2006             | USAF | 20         | 0                          | 20                           |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 20         |     |           |
| 2007             | USAF | 19         | 0                          | 19                           |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | 19         |     |           |
| <b>TOTAL</b>     |      | <b>108</b> | <b>0</b>                   | <b>108</b>                   |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | <b>108</b> |     |           |

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |             |  |  |          |                   |  |  |  |  |
|--------------------------|----------|------------------|-------------|-------|------------|-----------------------|-------------|--|--|----------|-------------------|--|--|--|--|
|                          |          | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |             |  |  | MFG TIME | TOTAL AFTER 1 OCT |  |  |  |  |
|                          |          |                  |             |       |            | PRIOR 1 OCT           | AFTER 1 OCT |  |  |          |                   |  |  |  |  |
| AESAT/TBD                | TBD      |                  |             |       |            |                       |             |  |  |          |                   |  |  |  |  |
|                          |          |                  |             |       |            |                       |             |  |  |          |                   |  |  |  |  |
|                          |          |                  |             |       |            |                       |             |  |  |          |                   |  |  |  |  |
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**Exhibit P-21, Production Schedule** Date: February 2002

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** **Target Drones**

| PROCUREMENT YEAR | SERV | PROC. QTY  | ACCEP. PRIOR TO 1 OCT 2002 | BALANCE DUE AS OF 1 OCT 2002 | FISCAL YEAR 2003   |     |     |     |     |     |     |     |     |     |     |     | FISCAL YEAR 2004   |     |     |     |     |     |     |     |     |     |     |     | L A T E R |            |
|------------------|------|------------|----------------------------|------------------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|------------|
|                  |      |            |                            |                              | CALENDAR YEAR 2003 |     |     |     |     |     |     |     |     |     |     |     | CALENDAR YEAR 2004 |     |     |     |     |     |     |     |     |     |     |     |           |            |
|                  |      |            |                            |                              | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |           |            |
| 2002             | USAF | 6          | 0                          | 6                            |                    |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           | 0          |
| 2003             | USAF | 0          | 0                          | 0                            |                    |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           | 0          |
| 2004             | USAF | 43         | 0                          | 43                           |                    |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           | 43         |
| 2005             | USAF | 20         | 0                          | 20                           |                    |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           | 20         |
| 2006             | USAF | 20         | 0                          | 20                           |                    |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           | 20         |
| 2007             | USAF | 19         | 0                          | 19                           |                    |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           | 19         |
| <b>TOTAL</b>     |      | <b>108</b> | <b>0</b>                   | <b>108</b>                   |                    |     |     |     |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           | <b>102</b> |

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |                  |       | REACHED D+ | PROCUREMENT LEAD TIME |             |          |  | TOTAL AFTER 1 OCT |
|--------------------------|----------|------------------|------------------|-------|------------|-----------------------|-------------|----------|--|-------------------|
|                          |          | MIN SUST         | SHIFT HOURS DAYS | M A X |            | ADMIN LEAD TIME       |             | MFG TIME |  |                   |
|                          |          |                  |                  |       |            | PRIOR 1 OCT           | AFTER 1 OCT |          |  |                   |
| AE SAT / TBD             |          |                  |                  |       |            |                       |             |          |  |                   |
|                          |          |                  |                  |       |            |                       |             |          |  |                   |
|                          |          |                  |                  |       |            |                       |             |          |  |                   |

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number | P-1 Line Item Nomenclature |
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| <b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 17</b> | <b>Target Drones</b> |
|---|----------------------|

| 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 |
|------------------|------|------------|----------------------------|------------------------------|------------------|-----|-----|-----|--------------------|-----|-----|-----|----------|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----|-----------|
|                  |      |            |                            |                              | 2004             |     |     |     | CALENDAR YEAR 2005 |     |     |     |          |     |     |     | CALENDAR YEAR 2006 |     |     |     |     |     |     |     |     |     |           |     |           |
|                  |      |            |                            |                              | OCT              | NOV | DEC | JAN | FEB                | MAR | APR | MAY | JUN      | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG       | SEP |           |
| 2003             | USAF | 0          | 0                          | 0                            |                  |     |     |     |                    |     |     |     |          |     |     |     |                    |     |     |     |     |     |     |     |     |     | 0         |     |           |
| 2004             | USAF | 43         | 0                          | 43                           |                  |     |     |     |                    |     |     |     | 2        |     |     |     |                    |     |     |     |     |     |     |     |     |     | 4         |     |           |
| 2005             | USAF | 20         | 0                          | 20                           |                  |     |     |     |                    |     |     |     |          |     |     |     |                    |     |     |     |     |     |     |     |     |     | 18        |     |           |
| 2006             | USAF | 20         | 0                          | 20                           |                  |     |     |     |                    |     |     |     |          |     |     |     |                    |     |     |     |     |     |     |     |     |     | 20        |     |           |
| 2007             | USAF | 19         | 0                          | 19                           |                  |     |     |     |                    |     |     |     |          |     |     |     |                    |     |     |     |     |     |     |     |     |     | 19        |     |           |
| <b>TOTAL</b>     |      | <b>102</b> | <b>0</b>                   | <b>102</b>                   |                  |     |     |     |                    |     |     |     | <b>2</b> |     |     |     |                    |     |     |     |     |     |     |     |     |     | <b>61</b> |     |           |

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |  |          |                   |  |  |  |
|--------------------------|----------|------------------|-------------|-------|------------|-----------------------|--|----------|-------------------|--|--|--|
|                          |          | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |  | MFG TIME | TOTAL AFTER 1 OCT |  |  |  |
| AFSAT / TBD              |          |                  |             |       |            |                       |  |          |                   |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |
|                          |          |                  |             |       |            |                       |  |          |                   |  |  |  |

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**Exhibit P-21, Production Schedule** Date: February 2002

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** **Target Drones**

| 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 |  |  |  |
|--------------------------|------|------------|----------------------------|------------------------------|------------------|------------|----------|--------------------|-----------------------|-------------|----------|-------------------|----------|----------|----------|----------|------------------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|-----|-----|-----------|--|--|--|
|                          |      |            |                            |                              | 2006             |            |          | CALENDAR YEAR 2007 |                       |             |          |                   |          |          |          |          |                  |          |          | CALENDAR YEAR 2008 |          |          |          |          |          |          |     |     |           |  |  |  |
|                          |      |            |                            |                              | OCT              | NOV        | DEC      | JAN                | FEB                   | MAR         | APR      | MAY               | JUN      | JUL      | AUG      | SEP      | OCT              | NOV      | DEC      | JAN                | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG | SEP |           |  |  |  |
| 2004                     | USAF | 43         | 39                         | 4                            | 2                | 2          |          |                    |                       |             |          |                   |          |          |          |          |                  |          |          |                    |          |          |          |          |          |          | 0   |     |           |  |  |  |
| 2005                     | USAF | 20         | 2                          | 18                           | 1                | 1          | 3        | 3                  | 3                     | 3           | 3        | 1                 |          |          |          |          |                  |          |          |                    |          |          |          |          |          |          | 0   |     |           |  |  |  |
| 2006                     | USAF | 20         | 0                          | 20                           |                  |            |          |                    |                       |             | 2        | 3                 | 3        | 3        | 3        | 3        | 3                |          |          |                    |          |          |          |          |          |          | 0   |     |           |  |  |  |
| 2007                     | USAF | 19         | 0                          | 19                           |                  |            |          |                    |                       |             |          |                   |          |          |          |          | 3                | 3        | 3        | 3                  | 3        | 3        | 3        | 3        | 1        |          | 0   |     |           |  |  |  |
| <b>TOTAL</b>             |      | <b>102</b> | <b>41</b>                  | <b>61</b>                    | <b>3</b>         | <b>3</b>   | <b>3</b> | <b>3</b>           | <b>3</b>              | <b>3</b>    | <b>3</b> | <b>3</b>          | <b>3</b> | <b>3</b> | <b>3</b> | <b>3</b> | <b>3</b>         | <b>3</b> | <b>3</b> | <b>3</b>           | <b>3</b> | <b>3</b> | <b>3</b> | <b>3</b> | <b>1</b> | <b>0</b> |     |     |           |  |  |  |
|                          |      |            |                            |                              | OCT              | NOV        | DEC      | JAN                | FEB                   | MAR         | APR      | MAY               | JUN      | JUL      | AUG      | SEP      | OCT              | NOV      | DEC      | JAN                | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG | SEP |           |  |  |  |
| ITEM/MANUFACTURER'S NAME |      | LOCATION   | PRODUCTION RATES           |                              |                  | REACHED D+ |          |                    | PROCUREMENT LEAD TIME |             |          |                   |          |          |          |          |                  |          |          |                    |          |          |          |          |          |          |     |     |           |  |  |  |
| AFSAT /TBD               |      |            | MIN SUST                   | SHIFT HOURS DAYS             | M A X            |            |          |                    | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |          |          |          |          |                  |          |          |                    |          |          |          |          |          |          |     |     |           |  |  |  |
|                          |      |            |                            |                              |                  |            |          |                    | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |          |          |          |          |                  |          |          |                    |          |          |          |          |          |          |     |     |           |  |  |  |
| REMARKS                  |      |            |                            |                              |                  |            |          |                    |                       |             |          |                   |          |          |          |          |                  |          |          |                    |          |          |          |          |          |          |     |     |           |  |  |  |

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 17</b> | P-1 Line Item Nomenclature<br><b>Target Drones</b> |
|--|--|

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |             |             |             |             |             |                    |             |             |             |             |             | FISCAL YEAR 2002   |             |             |             |             |             |             |             |             |             |             |             | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|
|                  |      |           |                            |                              | 2000             |             |             |             |             |             | CALENDAR YEAR 2001 |             |             |             |             |             | CALENDAR YEAR 2002 |             |             |             |             |             |             |             |             |             |             |             |           |
|                  |      |           |                            |                              | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R        | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |           |
| 1998             | USAF | 8         | 0                          | 8                            |                  |             |             |             |             |             |                    |             |             |             |             |             |                    |             |             |             |             |             |             |             |             | 8           |             |             |           |
| 1999             | USAF | 15        | 0                          | 15                           |                  |             |             |             |             |             |                    |             |             |             |             |             |                    |             |             |             |             |             |             |             |             | 15          |             |             |           |
| 2000             | USAF | 32        | 0                          | 32                           |                  |             |             |             |             |             |                    |             |             |             |             |             |                    |             |             |             |             |             |             |             |             | 32          |             |             |           |
| <b>TOTAL</b>     |      | <b>55</b> | <b>0</b>                   | <b>55</b>                    |                  |             |             |             |             |             |                    |             |             |             |             |             |                    |             |             |             |             |             |             |             |             | <b>55</b>   |             |             |           |

|  |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |             |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|  | O<br>C<br>T | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |                        |             | REACHED<br>D+ | PROCUREMENT LEAD TIME |                |             |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------|----------|------------------|------------------------|-------------|---------------|-----------------------|----------------|-------------|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                          |          | MIN<br>SUST      | SHIFT<br>HOURS<br>DAYS | M<br>A<br>X |               | ADMIN<br>LEAD TIME    |                | MFG<br>TIME | TOTAL<br>AFTER<br>1 OCT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          |                  |                        |             |               | PRIOR<br>1 OCT        | AFTER<br>1 OCT |             |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          | INITIAL          | REORDER                |             |               |                       |                |             |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northrop Gruman (BOM-34) |          |                  |                        |             |               |                       |                |             |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          |                  |                        |             |               |                       |                |             |                         |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 17</b> | P-1 Line Item Nomenclature<br><b>Target Drones</b> |
|--|--|

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |   |   |   |   |   |                    |   |   |   |   |   | FISCAL YEAR 2002   |   |   |   |   |   |   |   |   |   |   |   | L A T E R |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|------------------|------|-----------|----------------------------|------------------------------|------------------|---|---|---|---|---|--------------------|---|---|---|---|---|--------------------|---|---|---|---|---|---|---|---|---|---|---|-----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|                  |      |           |                            |                              | 2000             |   |   |   |   |   | CALENDAR YEAR 2001 |   |   |   |   |   | CALENDAR YEAR 2002 |   |   |   |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                  |      |           |                            |                              | 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 |  |
| <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 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|                  |      |           |                            |                              | 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 |           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

| ITEM/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 |          |                   |
| Northrop Grumman (BOM-34) |          |                  |                  |       |            |                       |             |          |                   |
|                           |          |                  |                  |       |            |                       |             |          |                   |
|                           |          |                  |                  |       |            |                       |             |          |                   |
|                           |          |                  |                  |       |            |                       |             |          |                   |
|                           |          |                  |                  |       |            |                       |             |          |                   |
|                           |          |                  |                  |       |            |                       |             |          |                   |
|                           |          |                  |                  |       |            |                       |             |          |                   |

REMARKS



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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 18</b> | P-1 Line Item Nomenclature<br><b>C-40 ANG</b> |
|--|---|

| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         |         | N/A     |        |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|---------|--------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 | To Comp | Total  |
| Proc Qty                          | A       | 0           | 1       | 0       | 0                               | 0       | 0       | 0       | 0       | 0       | 1      |
| Total Proc Cost (\$ M)            |         | 0.000       | 67.525  | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 67.525 |

**Description**

This line item provides funding for one C-40 aircraft for the Air National Guard as directed by the FY01 Appropriations Act. The C-40 is a military variant of the commercial Boeing 737-700. This particular C-40 will replace one antiquated Air National Guard C-22B (Boeing 727-100). The C-40 provides improved reliability, reduced O&S cost, the latest navigation and safety features, and complies with international and FAA noise and emissions standards.

**FY 2003 Program Justification**

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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|--|---|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 18</b> | P-1 Line Item Nomenclature<br><b>C-40 ANG</b> |
|--|---|

|   |              |
|---|--------------|
| Manufacturer's Name/Plant City/State Location | Subline Item |
|---|--------------|

|                             |  |
|-----------------------------|--|
| Boeing Aerospace/Seattle/WA |  |
|-----------------------------|--|

| Weapon System<br>Cost Elements | Ident<br>Code | Total Cost In Millions of Dollars |           |               |         |           |            |         |           |            |
|--------------------------------|---------------|-----------------------------------|-----------|---------------|---------|-----------|------------|---------|-----------|------------|
|                                |               | FY 2001                           |           |               | FY 2002 |           |            | FY 2003 |           |            |
|                                |               | Qty                               | Unit Cost | Total Cost    | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| Aircraft                       | A             | 1                                 |           | 67.525        |         |           |            |         |           |            |
| FLYAWAY COST SUBTOTAL          | A             |                                   |           | 67.525        |         |           |            |         |           |            |
| SUPPORT COST SUBTOTAL          | A             |                                   |           |               |         |           |            |         |           |            |
| <b>TOTAL PROGRAM</b>           |               |                                   |           | <b>67.525</b> |         |           |            |         |           |            |

**Comments**

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Exhibit P-21, Production Schedule Date: February 2002

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. 18** **C-40 ANG**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |   |   |   |   |   |                    |   |   |   |   |   | FISCAL YEAR 2002   |   |   |   |   |   |   |   |   |   |   |   | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|---|---|---|---|---|--------------------|---|---|---|---|---|--------------------|---|---|---|---|---|---|---|---|---|---|---|-----------|
|                  |      |           |                            |                              | 2000             |   |   |   |   |   | CALENDAR YEAR 2001 |   |   |   |   |   | CALENDAR YEAR 2002 |   |   |   |   |   |   |   |   |   |   |   |           |
|                  |      |           |                            |                              | O                | N | D | J | F | M | A                  | M | J | J | A | S | O                  | N | D | J | F | M | A | M | J | J | A | S |           |
| 2001             | USAF | 1         | 0                          | 1                            |                  |   |   |   |   |   |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |   |   |   |   |           |
| <b>TOTAL</b>     |      | <b>1</b>  | <b>0</b>                   | <b>1</b>                     |                  |   |   |   |   |   |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |   |   |   |   |           |

| ITEM/MANUFACTURER'S NAME | LOCATION    | PRODUCTION RATES |                  |       | REACHED D+      | PROCUREMENT LEAD TIME |             |          |  | TOTAL AFTER 1 OCT |
|--------------------------|-------------|------------------|------------------|-------|-----------------|-----------------------|-------------|----------|--|-------------------|
|                          |             | MIN SUST         | SHIFT HOURS DAYS | M A X |                 | ADMIN LEAD TIME       |             | MFG TIME |  |                   |
|                          |             |                  |                  |       |                 | PRIOR 1 OCT           | AFTER 1 OCT |          |  |                   |
| Boeing Aerospace         | Seattle, WA | 1                |                  | 1     |                 |                       |             |          |  |                   |
|                          |             |                  |                  |       |                 |                       |             |          |  |                   |
|                          |             |                  |                  |       | INITIAL REORDER |                       |             |          |  |                   |

REMARKS

Empty area for remarks.



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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 19</b> | P-1 Line Item Nomenclature<br><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 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 | To Comp | Total    |
| Proc Qty                          | A       | 14          | 1       | 1       | 1                               | 0       | 0       | 0       | 0       |         | 17       |
| Cost (\$ M)                       |         | 3993.500    | 240.658 | 269.772 | 279.268                         | 0.000   | 0.000   | 0.000   | 0.000   |         | 4783.198 |
| Interim Ctr Support (\$ M)        |         | 0.000       | 0.000   | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |         | 0.000    |
| Advance Proc Cost (\$ M)          |         | 841.100     | 46.080  | 45.997  | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |         | 933.177  |
| Weapon System Cost (\$ M)         |         | 4834.600    | 286.738 | 315.769 | 279.268                         | 0.000   | 0.000   | 0.000   | 0.000   |         | 5716.375 |
| Initial Spares (\$ M)             |         | 287.187     | 32.212  | 26.364  | 1.810                           | 35.190  | 36.407  | 0.611   | 1.151   |         | 420.932  |
| Total Proc Cost (\$ M)            |         | 5121.787    | 318.950 | 342.133 | 281.078                         | 35.190  | 36.407  | 0.611   | 1.151   |         | 6137.307 |
| Flyaway Unit Cost (\$ M)          |         | 288.500     | 239.008 | 269.772 | 285.038                         |         |         |         |         |         |          |
| Wpn Sys Unit Cost (\$ M)          |         | 305.100     | 286.738 | 317.805 | 279.268                         |         |         |         |         |         |          |

**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; and is able to respond rapidly to worldwide contingencies. Electronic Systems Center/Joint STARS (ESC/JS) is continually determining the most efficient means to enhance the warfighter's battle management command, control and communication (C3) capability to achieve the Global Strike Task Force (GSTF) vision. ESC/JS is developing advanced battle management decision aids and information fusion to enable commanders to make more timely decisions in tracking and killing time critical targets (TCTs) and achieve a Predictive Battle-Space Awareness (PBA) environment.

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 Jun 99. In FY95 authorization was received to begin a program for the multi-year buy-out and storage of potential candidate B707-300 A/C. Currently, as additional AF 707 assets become available, the Program Office continues to inspect, request transfer and store additional candidates for E-8B conversion. Any ECPs required have historically been funded out of the program ECO line as these aircraft moved through production. Of late however, as the program matured, the ECP kits and installation efforts have shifted focus from production line assets to operational assets. A modification (BP11) line for ECPs was not originally laid into the program. For FY01 and prior, the Air Force will use its reprogramming flexibility to realign funds between BP10 and BP11 to support fleet mods resulting from approved ECPs. This action is required to maintain fleet configuration commonality. The Command and Control, Intelligence, Surveillance, and Reconnaissance (C2ISR) System Architecture improvements include concept exploration and program definition/risk reduction efforts that support continuous improvements and implementation of C2ISR capabilities to enable a joint global strike task force. This effort includes, but is not limited to, manned and unmanned platforms, space, data links and advanced BMC3 concepts. These efforts include, but are not limited to, the ISR constellation, UAV, data links, Space, AMTI, GMTI and large airborne platform integration efforts, which will provide greater mission capability, higher mission reliability, and maximize aircraft availability in support of the user's (ACC) mission. In Sep 96, the Defense Acquisition Board (DAB)

P-1 Shopping List Item No. 19

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

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**Exhibit P-40, Budget Item Justification** Date: February 2002

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. 19**

**E-8C (Joint Stars)**

**Description Continued**

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. However, the last several President's Budgets requested, and Congress authorized, full funding for the 14th, 15th and 16th aircraft and long lead funding for a 17th E-8C in FY02.

**FY 2003 Program Justification**

FY03 funds the 17th E-8C aircraft.

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| Exhibit P-5, Weapon System Cost Analysis   |               |                                   |           |            |              |           | Date: February 2002        |         |           |            |
|--|---------------|-----------------------------------|-----------|------------|--------------|-----------|----------------------------|---------|-----------|------------|
| 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. 19 |               |                                   |           |            |              |           | E-8C (Joint Stars)         |         |           |            |
| Manufacturer's Name/Plant City/State Location                                    |               |                                   |           |            | Subline Item |           |                            |         |           |            |
| Northrop Grumman Corporation Melbourne Systems Division Melbourne, FL            |               |                                   |           |            |              |           |                            |         |           |            |
| Weapon System<br>Cost Elements   | Ident<br>Code | Total Cost In Millions of Dollars |           |            |              |           |                            |         |           |            |
|  |               | FY 2001                           |           |            | FY 2002      |           |                            | FY 2003 |           |            |
|  |               | Qty                               | Unit Cost | Total Cost | Qty          | Unit Cost | Total Cost                 | Qty     | Unit Cost | Total Cost |
| Airframe   | A             | 1                                 | 132.326   | 132.326    | 1            | 145.670   | 145.670                    | 1       | 153.346   | 153.346    |
| Avionics   | A             | 1                                 | 45.282    | 45.282     | 1            | 49.500    | 49.500                     | 1       | 51.481    | 51.481     |
| Connectivity   | A             | 1                                 | 24.300    | 24.300     | 1            | 28.760    | 28.760                     | 1       | 29.908    | 29.908     |
| GFE (including A/C storage/demods)   | A             |                                   |           | 5.200      |              |           | 11.790                     |         |           | 12.257     |
| Engineering Change Orders (ECO)  | A             |                                   |           | 1.500      |              |           |                            |         |           |            |
| Nonrecurring Costs   | A             | 1                                 | 10.100    | 10.100     | 1            | 10.090    | 10.090                     | 1       | 10.492    | 10.492     |
| Other Costs  | A             | 1                                 | 20.300    | 20.300     | 1            | 26.490    | 26.490                     | 1       | 27.554    | 27.554     |
| <b>FLYAWAY COST SUBTOTAL</b>   | A             |                                   |           | 239.008    |              |           | 272.300                    |         |           | 285.038    |
| Avionics PGSE  | A             |                                   |           | 3.080      |              |           | 3.270                      |         |           | 3.126      |
| Peculiar Training Equipment  | A             |                                   |           | 4.620      |              |           | 4.900                      |         |           | 2.900      |
| Publications/Technical Data  | A             |                                   |           | 2.700      |              |           | 2.950                      |         |           | 1.900      |
| Pgm Mgmt Admin (PMA)   | A             |                                   |           | 17.774     |              |           | 18.402                     |         |           | 19.135     |
| ICS (FY00 only)  | A             |                                   |           |            |              |           |                            |         |           |            |
| Other  | A             |                                   |           | 9.208      |              |           | 14.030                     |         |           | 15.200     |
| <b>SUPPORT COST SUBTOTAL</b>   | A             |                                   |           | 37.382     |              |           | 43.552                     |         |           | 42.261     |
| <b>GROSS P-1 COSTS</b>   | A             |                                   |           | 276.390    |              |           | 272.282                    |         |           | 328.260    |
| Less: Prior Yr Adv Procurement   | A             |                                   |           | -35.732    |              |           | -46.080                    |         |           | -48.033    |
| Plus: Current Yr Adv Procurement   | A             |                                   |           | 46.080     |              |           | 48.033                     |         |           |            |
| <b>Net P-1 Total</b>   | A             |                                   |           | 286.738    |              |           | 317.810                    |         |           | 279.268    |
| Plus: INITIAL SPARES   | A             |                                   |           |            |              |           |                            |         |           |            |
| Plus: MODs BP 11   | A             |                                   |           |            |              |           |                            |         |           |            |
| <b>TOTAL PROGRAM</b>   |               |                                   |           | 286.738    |              |           | 317.805                    |         |           | 279.266    |
| <b>Comments</b>  |               |                                   |           |            |              |           |                            |         |           |            |
|  |               |                                   |           |            |              |           |                            |         |           |            |
|  |               |                                   |           |            |              |           |                            |         |           |            |

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| <b>Exhibit P-5A, Procurement History and Planning</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 19</b> | P-1 Line Item Nomenclature<br><b>E-8C (Joint Stars)</b> |
|--|---|

| <u>Weapon System</u> |     |           |                 | Subline Item   |                 |               |                         |            |                        |                      |                           |  |
|----------------------|-----|-----------|-----------------|----------------|-----------------|---------------|-------------------------|------------|------------------------|----------------------|---------------------------|--|
| E-8C                 |     |           |                 |                |                 |               |                         |            |                        |                      |                           |  |
| 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? |  |
| Weapon System        |     |           |                 |                |                 |               |                         |            |                        |                      |                           |  |
| FY01                 | 1   | 286.738   | ESC/JSK         |                | SS              | FPI           | Grumman /Melbourne      | Mar-01     | Mar-03                 | Yes                  |                           |  |
| FY02                 | 1   | 317.805   | ESC/JSK         |                | SS              | FPI           | Grumman/Melbourne       | Mar-02     | Mar-04                 | Yes                  |                           |  |
| FY03                 | 1   | 279.268   | ESC/JSK         |                | SS              | FPI           | Grumman/Melbourne       | Mar-03     | Mar-05                 | Yes                  |                           |  |
| Support              |     |           |                 |                |                 |               |                         |            |                        |                      |                           |  |
| FY01                 | N/A |           | ESC/JSK         |                | SS              | FP            | Grumman /Melbourne      | Nov-00     | N/A                    | Yes                  |                           |  |
| FY02                 | N/A |           | ESC/JSK         |                | SS              | FP            | Grumman/Melbourne       | Nov-01     | N/A                    | Yes                  |                           |  |
| FY03                 | N/A |           | ESC/JSK         |                | SS              | FP            | Grumman/Melbourne       | Nov-02     | N/A                    | Yes                  |                           |  |

**Remarks**  
Support costs consists of items such as PSE, CSE, Training. Date of first delivery is lead time to support A/C delivery schedule



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**Exhibit P-21, Production Schedule** Date: February 2002

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. 19** **E-8C (Joint Stars)**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |          |     |     |     |     |                    |          |     |     |     |     | FISCAL YEAR 2002   |     |     |     |     |     |     |          |     |     |          |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|-----|-----|-----|-----|--------------------|----------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|----------|-----|-----|----------|-----|-----------|
|                  |      |           |                            |                              | 2000             |          |     |     |     |     | CALENDAR YEAR 2001 |          |     |     |     |     | CALENDAR YEAR 2002 |     |     |     |     |     |     |          |     |     |          |     |           |
|                  |      |           |                            |                              | OCT              | NOV      | DEC | JAN | FEB | MAR | APR                | MAY      | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY      | JUN | JUL | AUG      | SEP |           |
| 1992             | USAF | 2         | 2                          | 0                            |                  |          |     |     |     |     |                    |          |     |     |     |     |                    |     |     |     |     |     |     |          |     | 0   |          |     |           |
| 1994             | USAF | 2         | 2                          | 0                            |                  |          |     |     |     |     |                    |          |     |     |     |     |                    |     |     |     |     |     |     |          |     |     | 0        |     |           |
| 1995             | USAF | 2         | 1                          | 1                            |                  | 1        |     |     |     |     |                    |          |     |     |     |     |                    |     |     |     |     |     |     |          |     |     | 0        |     |           |
| 1996             | USAF | 2         | 1                          | 1                            |                  |          |     |     |     | 1   |                    |          |     |     |     |     |                    |     |     |     |     |     |     |          |     |     | 0        |     |           |
| 1997             | USAF | 2         | 2                          | 0                            |                  |          |     |     |     |     |                    |          |     |     |     |     |                    |     |     |     |     |     |     |          |     |     | 0        |     |           |
| 1998             | USAF | 1         | 0                          | 1                            |                  |          |     |     |     |     |                    |          | 1   |     |     |     |                    |     |     |     |     |     |     |          |     |     | 0        |     |           |
| 1999             | USAF | 2         | 0                          | 2                            |                  |          |     |     |     |     |                    |          |     |     |     |     |                    |     |     |     |     |     |     | 1        |     |     | 0        |     |           |
| 2000             | USAF | 1         | 0                          | 1                            |                  |          |     |     |     |     |                    |          |     |     |     |     |                    |     |     |     |     |     |     |          |     | 1   | 0        |     |           |
| <b>TOTAL</b>     |      | <b>14</b> | <b>8</b>                   | <b>6</b>                     |                  | <b>1</b> |     |     |     |     |                    | <b>1</b> |     |     |     |     |                    |     |     |     |     |     |     | <b>1</b> |     |     | <b>0</b> |     |           |

| ITEM/MANUFACTURER'S NAME | LOCATION           | PRODUCTION RATES |             |       | REACHED D+      | PROCUREMENT LEAD TIME |   |          |                   |
|--------------------------|--------------------|------------------|-------------|-------|-----------------|-----------------------|---|----------|-------------------|
|                          |                    | MIN SUST         | SHIFT HOURS | M A X |                 | ADMIN LEAD TIME       |   | MFG TIME | TOTAL AFTER 1 OCT |
|                          |                    |                  | 1 - 8 - 5   |       | PRIOR 1 OCT     | AFTER 1 OCT           |   |          |                   |
| Northrop Grumman         | Melbourne, Florida | 1                | 1 - 8 - 5   | 5     |                 |                       |   |          |                   |
|                          |                    |                  |             |       | INITIAL REORDER | 2                     | 5 | 33       | 38                |

**REMARKS**

- Six (6) Aircraft delivered prior to FY96
- Aircraft P6&8 deliveries (Nov 00&May 01) reflect rebaselings on contract
- Aircraft P11, 12&13 delivery dates of Aug01, Dec01 & May02 were definitized respectively
- Aircraft P14 & 15 delivery dates of Sep 02 and Mar 03 have been definitized
- Long Lead funding for P16 authorized in FY01.
- Aircraft P16 delivery date TBD pending definitization.
- Long Lead fundng for P17 is included in the FY02PB.
- Aircraft Procurement funding for P-17 is included in the FY03 PB.

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 19</b> | P-1 Line Item Nomenclature<br><b>E-8C (Joint Stars)</b> |
|--|---|

| PROCUREMENT YEAR | S<br>E<br>R<br>V | PROC.<br>QTY | ACCEP.<br>PRIOR<br>TO<br>1 OCT<br>2002 | BALANCE<br>DUE<br>AS OF<br>1 OCT<br>2002 | FISCAL YEAR 2003 |             |             |             |             |             |                    |             |             |             |             |             |             | FISCAL YEAR 2004   |             |             |             |             |             |             |             |             |             |             |  |  | L<br>A<br>T<br>E<br>R |   |
|------------------|------------------|--------------|--|--|------------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--|--|-----------------------|---|
|                  |                  |              |  |  | 2002             |             |             |             |             |             | CALENDAR YEAR 2003 |             |             |             |             |             |             | CALENDAR YEAR 2004 |             |             |             |             |             |             |             |             |             |             |  |  |                       |   |
|                  |                  |              |  |  | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R        | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P | O<br>C<br>T | N<br>O<br>V        | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |  |  |                       |   |
| 2001             | USAF             | 1            | 0                                      | 1  |                  |             |             |             |             |             |                    |             |             | 1           |             |             |             |                    |             |             |             |             |             |             |             |             |             |             |  |  |                       | 0 |
| 2002             | USAF             | 1            | 0                                      | 1  |                  |             |             |             |             |             |                    |             |             |             |             |             |             |                    |             |             |             |             |             |             |             |             |             |             |  |  |                       | 0 |
| 2003             | USAF             | 1            | 0                                      | 1  |                  |             |             |             |             |             |                    |             |             |             |             |             |             |                    |             |             |             |             |             |             |             |             |             |             |  |  |                       | 1 |
| <b>TOTAL</b>     |                  |              |  |  |                  |             |             |             |             |             |                    |             | 1           |             |             |             |             |                    |             |             |             |             |             |             |             |             |             |             |  |  |                       | 1 |

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |                        |             | REACHED<br>D+ | PROCUREMENT LEAD TIME |                |                    |  | MFG<br>TIME | TOTAL<br>AFTER<br>1 OCT |  |
|--------------------------|----------|------------------|------------------------|-------------|---------------|-----------------------|----------------|--------------------|--|-------------|-------------------------|--|
|                          |          | MIN<br>SUST      | SHIFT<br>HOURS<br>DAYS | M<br>A<br>X |               | ADMIN<br>LEAD TIME    |                | INITIAL<br>REORDER |  |             |                         |  |
|                          |          |                  |                        |             |               | PRIOR<br>1 OCT        | AFTER<br>1 OCT |                    |  |             |                         |  |
| Northrop Grumman         |          |                  |                        |             |               |                       |                |                    |  |             |                         |  |
|                          |          |                  |                        |             |               |                       |                |                    |  |             |                         |  |

REMARKS

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| <b>Exhibit P-40, Budget Item Justification</b>   | Date: February 2002   |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 20</b> | P-1 Line Item Nomenclature<br><b>E-8C (Joint Stars) Advance Procurement</b> |

| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         |         | N/A |         |         |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|-----|---------|---------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |     | To Comp | Total   |
| Proc Qty                          | A       |             |         |         |                                 |         |         |         |         |     |         |         |
| Cost (\$ M)                       |         |             |         |         |                                 |         |         |         |         |     |         |         |
| Interim Ctr Support (\$ M)        |         |             |         |         |                                 |         |         |         |         |     |         |         |
| Advance Proc Cost (\$ M)          |         | 841.100     | 46.080  | 45.977  | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |     |         | 933.157 |
| Weapon System Cost (\$ M)         |         | 841.100     | 46.080  | 45.977  | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |     |         | 933.157 |
| Initial Spares (\$ M)             |         |             |         |         |                                 |         |         |         |         |     |         |         |
| Total Proc Cost (\$ M)            |         | 841.100     | 46.080  | 45.977  | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |     |         | 933.157 |
| Flyaway Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |     |         |         |
| Wpn Sys Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |     |         |         |

**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; and 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. Congress authorized long lead and procurement dollars for aircraft P-14 and P-15 in 99/00 and 00/01 respectively. Congress added long lead funds for aircraft P-16 in FY 01. The FY02 PB submission included long lead for aircraft P-17 in FY02, which will be procured in FY03.

**FY 2003 Program Justification**

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| <b>Exhibit P-10 p.1, Advance Procurement Requirements Analysis<br/>(Page 1 - Funding)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 20</b> | P-1 Line Item Nomenclature<br><b>E-8C (Joint Stars) Advance Procurement</b> |
|--|---|

|                         |                                   |  |
|-------------------------|-----------------------------------|--|
| Weapon System<br>E-8CAP | First System Award Date<br>Apr-92 | First System Completion Date<br>Mar-96 |
|-------------------------|-----------------------------------|--|

| (\$ in Millions) |     |          |             |         |         |         |         |         |         |         |         |         |
|------------------|-----|----------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Description      | PLT | When Rqd | Prior Years | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | To Comp | Total   |
| End Item Qty     | 12  |          | 14          | 1       | 1       | 1       |         |         |         |         |         | 17      |
| CFE              |     |          | 841.100     | 46.080  | 48.033  |         |         |         |         |         |         | 935.213 |
| GFE              |     |          |             |         |         |         |         |         |         |         |         |         |
| EOQ              |     |          |             |         |         |         |         |         |         |         |         |         |
| Design           |     |          |             |         |         |         |         |         |         |         |         |         |
| Term Liability   |     |          |             |         |         |         |         |         |         |         |         |         |
| <b>TOTAL AP</b>  |     |          | 841.100     | 46.080  | 48.033  |         |         |         |         |         |         | 935.213 |

**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.

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| <b>Exhibit P-10 p.2, Advance Procurement Requirements Analysis<br/>(Page 2 - Budget Justification)</b> | Date: February 2002 |
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|  |   |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 20</b> | P-1 Line Item Nomenclature<br><b>E-8C (Joint Stars) Advance Procurement</b> |
|--|---|

Weapon System  
E-8CAP

(TOA, \$ in Millions)

| Description     | PLT | OPA | Unit Cost | 2001 QTY | 2001     | 2001 Total | 2002 QTY | 2002     | 2002 Total | 2003 QTY | 2003     | 2003 Total |
|-----------------|-----|-----|-----------|----------|----------|------------|----------|----------|------------|----------|----------|------------|
|                 |     |     |           |          | Contract | Cost       |          | Contract | Cost       |          | Contract | Cost       |
|                 |     |     |           |          | Forecast | Request    |          | Forecast | Request    |          | Forecast | Request    |
| End Item        | 12  | 1   |           |          |          |            | 0        |          | 0.000      |          |          |            |
| CFE             |     |     |           |          |          |            | 0        |          | 0.000      |          |          |            |
| GFE             |     |     |           |          |          |            | 0        |          | 0.000      |          |          |            |
| EOQ             |     |     |           |          |          |            | 0        |          | 0.000      |          |          |            |
| Design          |     |     |           |          |          |            | 0        |          | 0.000      |          |          |            |
| Term Liability  |     |     |           |          |          |            | 0        |          | 0.000      |          |          |            |
| <b>TOTAL AP</b> |     |     |           |          |          |            |          |          | 0.000      |          |          |            |

**Description:**

P-1 Shopping List Item No. 20

**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 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |
|--|--|

| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         | N/A     |  |         |       |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|--|---------|-------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |  | To Comp | Total |
| Proc Qty                          | A       |             | 0       | 2       | 2                               | 4       | 4       | 4       | 10      |  | TBD     | TBD   |
| Cost (\$ M)                       |         |             | 0.000   | 83.081  | 63.861                          | 192.792 | 204.083 | 249.037 | 659.807 |  | TBD     | TBD   |
| Advance Proc Cost (\$ M)          |         |             | 21.045  | 33.500  | 41.000                          | 41.900  | 62.000  | 109.200 | 155.000 |  | TBD     | TBD   |
| Weapon System Cost (\$ M)         |         |             | 21.045  | 116.581 | 104.861                         | 234.692 | 266.083 | 358.237 | 814.807 |  | TBD     | TBD   |
| Initial Spares (\$ M)             |         |             |         | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |  | 0.000   | 0.000 |
| Total Proc Cost (\$ M)            |         |             | 21.045  | 116.581 | 104.861                         | 234.692 | 266.083 | 358.237 | 814.807 |  | TBD     | TBD   |
| Flyaway Unit Cost (\$ M)          |         |             |         | 46.085  | 43.635                          | 48.253  | 46.085  | 76.318  | 68.585  |  | TBD     | TBD   |
| Wpn Sys Unit Cost (\$ M)          |         |             |         | 52.063  | 48.681                          | 58.448  | 61.496  | 77.759  | 76.901  |  | TBD     | TBD   |

**Description**

1. In FY02, the Global Hawk program received \$72.0M as part of the Defense Emergency Response Fund (DERF). Funding was used to cover initial preparation and deployment of two Global Hawk aircraft as associated ground segment components, provide for 120 days of operations, and accelerate delivery of EO/IR sensors in support of OPERATION ENDURING FREEDOM. This funding is not reflected in the FY02 program total.

2. In FY03, Global Hawk anticipates receiving \$65M from the Cost of War Transfer Account. These funds are not included in the FY03 Air Force baseline. Funding will be used to procure another aircraft.

The Global Hawk Program consists of the RQ-4A Unmanned Aerial Vehicle (UAV), the AN/MSQ-131 Ground Segment (GS), and the support system. The GS consists of the Mission Control Element (MCE) and the Launch and Recovery Element (LRE). The Global Hawk System is designed to provide continuous, all-weather, day/night, wide area surveillance and reconnaissance and includes the communications and interfaces with other theater systems required to support joint tactical warfighters at various levels of command. Global Hawk is a fully autonomous, high-altitude, long-endurance unmanned aircraft that is directly responsive to theater tasking. Global Hawk will integrate with the existing tactical airborne reconnaissance architectures for tasking, mission planning, data processing, exploitation, and dissemination. It includes an Integrated Sensor Suite (ISS) which contains Synthetic Aperture Radar (SAR) with Ground Moving Target Indicator (GMTI) capability, along with an Electro-Optical (EO)/ Infrared (IR) camera. It is designed to provide up to 40,000 sq. nmi. of search radar imagery and electro-optical (EO) or infrared (IR) imagery per mission. Global Hawk is designed as a standoff imagery platform with the capability to operate in low-to-moderate air defense threat environments, and collect imagery while looking deep into high threat areas.

Initial spares for the Global Hawk Program are included in the weapon system cost line. The Global Hawk Program will not separately budget for initial spares. The program intends to include initial spares and support equipment under the low-rate initial production (LRIP) contract as part of the Reformed Supply Support Program (RSSP). The LRIP contract, to be awarded in FY02, will fund these requirements initially with Budget Program (BP) 10 funding. Under interim supply support (ISS), the contractor will provide spares as a capability, to achieve an agreed-to availability rate. The amount of initial spares will not be separately priced or provided to the Air Force.

P-1 Shopping List Item No. 21

**Budget Item Justification**  
**Exhibit P-40, page 1 of 18**

|  |                     |
|--|---------------------|
| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
|--|---------------------|

|   |                                      |
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| 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. 21</b> | <b>High Altitude Endurance - UAV</b> |

**Description Continued**

The Global Hawk Program will award a logistics support contract to fund Interim Contractor Support (ICS) in FY02.

Flyaway Cost includes recurring production for the Global Hawk system (aircraft and GS) plus Systems Engineering /Program Management, Engineering Change Orders, Systems Test and Engineering, and Non-Recurring Tooling. Weapon System Cost includes the Flyaway Cost plus interim supply support, ICS, operational site activation, data, support equipment, and training. These costs fluctuate throughout the FYDP due to the timing of ground stations and new sensor capabilities, including a SIGINT capability starting in FY06.

**FY 2003 Program Justification**

Global Hawk transitioned from an Advanced Concept Technology Demonstration (ACTD) to a DoD 5000 ACAT 1D acquisition program during FY01. An Acquisition Decision Memorandum was signed 6 Mar 01, approving entry into Engineering and Manufacturing Development (EMD) using spiral development, and authorizing Low-rate Initial Production (LRIP). Throughout the FYDP, the program will continue spiral development to enhance the design of the system to meet Operational Requirements Document (ORD) performance and capabilities.

In FY02, the Global Hawk LRIP program will commence procurement of two air vehicles and one MCE (with advance procurement in FY01 and delivery starting in FY03). In FY03, the Global Hawk LRIP program will procure two aircraft and one LRE (with advance procurement in FY02 and delivery in FY04). In FY04-06, the Global Hawk LRIP program will procure four aircraft and one GS. In FY07, the Global Hawk full-rate production program will procure ten aircraft and two GSs.

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| P-1 Shopping List Item No. 21 | Budget Item Justification<br>Exhibit P-40, page 2 of 18 |
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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |
|--|--|

|   |              |
|---|--------------|
| Manufacturer's Name/Plant City/State Location<br>Ryan Aeronautical Center, Palmdale, CA | Subline Item |
|---|--------------|

| Weapon System<br>Cost Elements          | Ident<br>Code | Total Cost In Millions of Dollars |           |            |         |           |            |         |           |            |
|---|---------------|-----------------------------------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
|   |               | FY 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|   |               | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| Long lead for 2 air vehicles and 1 MCE  | A             |                                   |           | 21.045     |         |           |            |         |           |            |
| Procurement of 2 air vehicles and 1 MCE | A             |                                   |           |            | 2       | 52.063    | 104.126    |         |           |            |
| Procurement of 2 air vehicles and 1 LRE | A             |                                   |           |            |         |           |            | 2       | 48.681    | 97.361     |
| Adv Procurement - Credit                | A             |                                   |           |            |         |           | 33.500     |         |           | 41.000     |
| Adv Procurement - Debit                 | A             |                                   |           |            |         |           | -21.045    |         |           | -33.500    |
| <b>TOTAL PROGRAM</b>                    |               |                                   |           | 21.045     |         |           | 116.581    |         |           | 104.861    |

**Comments**

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| <b>Exhibit P-5A, Procurement History and Planning</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |
|--|--|

| <u>Weapon System</u>                |     |           |                 |                | Subline Item    |               |   |            |                        |                      |                           |
|-------------------------------------|-----|-----------|-----------------|----------------|-----------------|---------------|---|------------|------------------------|----------------------|---------------------------|
| HAEUAV                              |     |           |                 |                |                 |               |   |            |                        |                      |                           |
| 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? |
| FY2001                              |     |           |                 |                |                 |               |   |            |                        |                      |                           |
| Long lead for 2 Global Hawks (FY02) |     |           | ASC/RAK         |                | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Jun-01     |                        | No                   | N/A                       |
| Long lead for 1 MCE (FY02)          |     |           | ASC/RAK         |                | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Jun-01     |                        | No                   | N/A                       |
| FY2002                              |     |           |                 |                |                 |               |   |            |                        |                      |                           |
| Global Hawk                         | 2   |           | ASC/RAK         |                | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Jan-02     | Jul-03                 | No                   | N/A                       |
| MCE                                 | 1   |           | ASC/RAK         |                | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Jan-02     | Jul-03                 | No                   | N/A                       |
| Long Lead for 2 Global Hawks (FY03) |     |           | ASC/RAK         |                | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-02     |                        | No                   | N/A                       |
| Long lead for 1 LRE (FY03)          |     |           | ASC/RAK         |                | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-02     |                        | No                   | N/A                       |
| FY2003                              |     |           |                 |                |                 |               |   |            |                        |                      |                           |
| Global Hawk                         | 2   |           | ASC/RAK         |                | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Nov-02     | Apr-04                 | No                   | N/A                       |
| LRE                                 | 1   |           | ASC/RAK         |                | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Nov-02     | Apr-04                 | No                   | N/A                       |
| Long lead for 4 Global Hawks (FY04) |     |           | ASC/RAK         |                | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-03     |                        | No                   | N/A                       |
| Long lead for 1 MCE (FY04)          |     |           | ASC/RAK         |                | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-03     |                        | No                   | N/A                       |
| Long lead for 1 LRE (FY04)          |     |           | ASC/RAK         |                | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-03     |                        | No                   | N/A                       |
| FY2004                              |     |           |                 |                |                 |               |   |            |                        |                      |                           |
| Global Hawk                         | 4   |           | ASC/RAK         |                | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Nov-03     | Apr-05                 | No                   | N/A                       |

P-1 Shopping List Item No. 21

Procurement History and Planning

Exhibit P-5A, page 4 of 18

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| <b>Exhibit P-5A, Procurement History and Planning</b>  | Date: February 2002  |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - 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? |
| MCE                                 | 1   |           | ASC/RAK         |                        | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Nov-03     | Apr-05                 | No                   | N/A                       |
| LRE                                 | 1   |           | ASC/RAK         |                        | SS              | FPI           | Ryan Aeronautical Center, Rancho Bernardo, CA | Nov-03     | Apr-05                 | No                   | N/A                       |
| Long lead for 4 Global Hawks (FY05) |     |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-04     |                        | No                   | N/A                       |
| Long lead for 1 MCE (FY05)          |     |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-04     |                        | No                   | N/A                       |
| Long lead for 1 LRE (FY05)          |     |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-04     |                        | No                   | N/A                       |
| FY2005                              |     |           |                 |                        |                 |               |   |            |                        |                      |                           |
| Global Hawk                         | 4   |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Nov-04     | Apr-06                 | No                   | N/A                       |
| MCE                                 | 1   |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Nov-04     | Apr-06                 | No                   | N/A                       |
| LRE                                 | 1   |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Nov-04     | Apr-06                 | No                   | N/A                       |
| Long lead for 4 Global Hawks (FY06) |     |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-05     |                        | No                   | N/A                       |
| Long lead for 1 MCE (FY06)          |     |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-05     |                        | No                   | N/A                       |
| Long lead for 1 LRE (FY06)          |     |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-05     |                        | No                   | N/A                       |
| FY 2006                             |     |           |                 |                        |                 |               |   |            |                        |                      |                           |
| Global Hawk                         | 4   |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Nov-05     | Apr-07                 | No                   | N/A                       |
| MCE                                 | 1   |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Nov-05     | Apr-07                 | No                   | N/A                       |
| LRE                                 | 1   |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center,                     | Nov-05     | Apr-07                 | No                   | N/A                       |

P-1 Shopping List Item No. 21

**Procurement History and Planning**  
**Exhibit P-5A, page 5 of 18**

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| <b>Exhibit P-5A, Procurement History and Planning</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |
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| <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? |
|                                      |     |           |                 |                        |                 |               | Rancho Bernardo, CA                           |            |                        |                      |                           |
| Long lead for 10 Global Hawks (FY07) |     |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-06     |                        | No                   | N/A                       |
| Long lead for 2 MCEs (FY07)          |     |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-06     |                        | No                   | N/A                       |
| Long lead for 2 LREs (FY07)          |     |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-06     |                        | No                   | N/A                       |
| FY2007                               |     |           |                 |                        |                 |               |   |            |                        |                      |                           |
| Global Hawk                          | 10  |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Nov-06     | Apr-08                 | No                   | N/A                       |
| MCE                                  | 2   |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Nov-06     | Apr-08                 | No                   | N/A                       |
| LRE                                  | 2   |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Nov-06     | Apr-08                 | No                   | N/A                       |
| Long lead for 10 Global Hawks (FY08) |     |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-07     |                        | No                   | N/A                       |
| Long lead for 2 MCEs (FY08)          |     |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-07     |                        | No                   | N/A                       |
| Long lead for 2 LREs (FY08)          |     |           | ASC/RAK         |                        | SS              | TBD           | Ryan Aeronautical Center, Rancho Bernardo, CA | Mar-07     |                        | No                   | N/A                       |

**Remarks**

An RFP for the LRIP contract was issued 3 May 01.

An advance procurement contract was awarded 11 June 01 for Global Hawk long-lead activities / parts for the FY02 production buy.

Long lead for production began in FY01, for delivery in FY03. Total lead time for air vehicles and ground stations is 25 months from receipt of order; 6-8 months for long lead of air vehicles or ground station components, 18-21 months for long lead of payloads components, and 16-18 months for fabrication and assembly (estimate).

System specs will be delivered in FY03. Contract revision dates are not available at this time.

PBD 817 added funding in FY02 for advance procurement of 2 more aircraft, however there is no additional corresponding funding in FY03 for procurement of 4 aircraft.

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| <b>Exhibit P-21, Production Schedule</b>   | Date: February 2002  |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |

| PROCUREMENT YEAR | S E R V | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |       |       |       |       |       |                    |       |       |       |       |       | FISCAL YEAR 2002   |       |       |       |       |       |       |       |           |       |       |       | L A T E R |
|------------------|---------|-----------|----------------------------|------------------------------|------------------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|-------|-------|-----------|
|                  |         |           |                            |                              | 2000             |       |       |       |       |       | CALENDAR YEAR 2001 |       |       |       |       |       | CALENDAR YEAR 2002 |       |       |       |       |       |       |       |           |       |       |       |           |
|                  |         |           |                            |                              | 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 |           |
| 2002             | USAF    | 2         | 0                          | 2                            |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       | 2         |       |       |       |           |
| 2003             | USAF    | 2         | 0                          | 2                            |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       | 2         |       |       |       |           |
| 2004             | USAF    | 4         | 0                          | 4                            |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       | 4         |       |       |       |           |
| 2005             | USAF    | 4         | 0                          | 4                            |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       | 4         |       |       |       |           |
| 2006             | USAF    | 4         | 0                          | 4                            |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       | 4         |       |       |       |           |
| 2007             | USAF    | 10        | 0                          | 10                           |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       | 10        |       |       |       |           |
| <b>TOTAL</b>     |         | <b>26</b> | <b>0</b>                   | <b>26</b>                    |                  |       |       |       |       |       |                    |       |       |       |       |       |                    |       |       |       |       |       |       |       | <b>26</b> |       |       |       |           |

| ITEM/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 |          |                   |    |  |    |  |
| Global Hawk /Northrop Grumman - Ryan Aeronautical Center | Rancho Bernardo, CA | 2                | 1-8-5            | 10    |            |                       |             |          |                   |    |  |    |  |
|  |                     |                  |                  |       |            |                       |             |          |                   |    |  |    |  |
|  |                     |                  |                  |       |            |                       |             |          |                   |    |  |    |  |
|  |                     |                  |                  |       |            |                       |             |          |                   |    |  |    |  |
|  |                     |                  |                  |       |            | INITIAL               |             |          |                   | 25 |  | 27 |  |
|  |                     |                  |                  |       |            | REORDER               |             |          |                   | 25 |  | 27 |  |

**REMARKS**  
 No deliveries of production air vehicles until FY03. Total lead time for aircraft and ground stations is 25 months from receipt of order; 6-8 months for long lead of air vehicles or ground station component, 18-21 months for long lead of payloads components, and 16-18 months for fabrication and assembly (estimate).

Advance procurement was provided in FY02 for four aircraft to be acquired in FY03.. Two aircraft will now be acquired in FY03. The advance procurement funds in FY02 will now apply to a greater percentage of the total cost of acquisition for the FY03 buy.

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**Exhibit P-21, Production Schedule** Date: February 2002

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. 21**

**High Altitude Endurance - UAV**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2002 | BALANCE DUE AS OF 1 OCT 2002 | FISCAL YEAR 2003 |     |     |                    |     |     |     |     |     |     |     |     | FISCAL YEAR 2004   |     |     |     |     |     |     |     |     |     |           |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|-----|-----------|
|                  |      |           |                            |                              | 2002             |     |     | CALENDAR YEAR 2003 |     |     |     |     |     |     |     |     | CALENDAR YEAR 2004 |     |     |     |     |     |     |     |     |     |           |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN                | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG       | SEP |           |
| 2002             | USAF | 2         | 0                          | 2                            |                  |     |     |                    |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |           |     |           |
| 2003             | USAF | 2         | 0                          | 2                            |                  |     |     |                    |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |           |     |           |
| 2004             | USAF | 4         | 0                          | 4                            |                  |     |     |                    |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |           |     |           |
| 2005             | USAF | 4         | 0                          | 4                            |                  |     |     |                    |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |           |     |           |
| 2006             | USAF | 4         | 0                          | 4                            |                  |     |     |                    |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |           |     |           |
| 2007             | USAF | 10        | 0                          | 10                           |                  |     |     |                    |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |           |     |           |
| <b>TOTAL</b>     |      | <b>26</b> | <b>0</b>                   | <b>26</b>                    |                  |     |     |                    |     |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     | <b>22</b> |     |           |

| ITEM/MANUFACTURER'S NAME                                 | LOCATION | PRODUCTION RATES |             |     | REACHED D+  | PROCUREMENT LEAD TIME |  |          |                   |                 |  |  |  |  |
|--|----------|------------------|-------------|-----|-------------|-----------------------|--|----------|-------------------|-----------------|--|--|--|--|
|  |          | MIN SUST         | SHIFT HOURS | MAX |             | ADMIN LEAD TIME       |  | MFG TIME | TOTAL AFTER 1 OCT | INITIAL REORDER |  |  |  |  |
|  |          |                  |             |     | PRIOR 1 OCT | AFTER 1 OCT           |  |          |                   |                 |  |  |  |  |
| Global Hawk /Northrop Grumman - Ryan Aeronautical Center |          |                  |             |     |             |                       |  |          |                   |                 |  |  |  |  |
|  |          |                  |             |     |             |                       |  |          |                   |                 |  |  |  |  |
| <b>REMARKS</b>   |          |                  |             |     |             |                       |  |          |                   |                 |  |  |  |  |

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| Exhibit P-21, Production Schedule  |                  |              |  |  |                  |                        |                       |               |                    |                |                    |                |             |                         | Date: February 2002  |             |                    |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|------------------|--------------|--|--|------------------|------------------------|-----------------------|---------------|--------------------|----------------|--------------------|----------------|-------------|-------------------------|--|-------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> |                  |              |  |  |                  |                        |                       |               |                    |                |                    |                |             |                         | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |             |                    |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PROCUREMENT YEAR   | S<br>E<br>R<br>V | PROC.<br>QTY | ACCEP.<br>PRIOR<br>TO<br>1 OCT<br>2004 | BALANCE<br>DUE<br>AS OF<br>1 OCT<br>2004 | FISCAL YEAR 2005 |                        |                       |               |                    |                |                    |                |             |                         |  |             | FISCAL YEAR 2006   |             |             |             |             |             |             |             |             |             |             |             | L<br>A<br>T<br>E<br>R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                  |              |  |  | 2004             |                        |                       |               |                    |                | CALENDAR YEAR 2005 |                |             |                         |  |             | CALENDAR YEAR 2006 |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                  |              |  |  | O<br>C<br>T      | N<br>O<br>V            | D<br>E<br>C           | J<br>A<br>N   | F<br>E<br>B        | M<br>A<br>R    | A<br>P<br>R        | M<br>A<br>Y    | J<br>U<br>N | J<br>U<br>L             | A<br>U<br>G  | S<br>E<br>P | O<br>C<br>T        | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2002   | USAF             | 2            | 2                                      | 0  |                  |                        |                       |               |                    |                |                    |                |             |                         |  |             |                    |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2003   | USAF             | 2            | 2                                      | 0  |                  |                        |                       |               |                    |                |                    |                |             |                         |  |             |                    |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2004   | USAF             | 4            | 0                                      | 4  |                  |                        |                       |               |                    |                |                    | 1              |             |                         |  |             |                    |             |             |             | 1           |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2005   | USAF             | 4            | 0                                      | 4  |                  |                        |                       |               |                    |                |                    |                |             |                         |  |             |                    |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2006   | USAF             | 4            | 0                                      | 4  |                  |                        |                       |               |                    |                |                    |                |             |                         |  |             |                    |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2007   | USAF             | 10           | 0                                      | 10                                       |                  |                        |                       |               |                    |                |                    |                |             |                         |  |             |                    |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL  |                  | 26           | 4                                      | 22                                       |                  |                        |                       |               |                    |                |                    |                |             |                         |  |             |                    |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                  |              |  |  | PRODUCTION RATES |                        | PROCUREMENT LEAD TIME |               |                    |                |                    |                |             |                         |  |             |                    |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |                  |              |  |  | MIN<br>SUST      | SHIFT<br>HOURS<br>DAYS | M<br>A<br>X           | REACHED<br>D+ | ADMIN<br>LEAD TIME |                |                    |                | MFG<br>TIME | TOTAL<br>AFTER<br>1 OCT |  |             |                    |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ITEM/MANUFACTURER'S NAME   |                  |              |  |  | LOCATION         |                        |                       |               |                    | PRIOR<br>1 OCT |                    | AFTER<br>1 OCT |             |                         | INITIAL<br>REORDER   |             |                    |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Global Hawk /Northrop Grumman - Ryan<br>Aeronautical Center  |                  |              |  |  |                  |                        |                       |               |                    |                |                    |                |             |                         |  |             |                    |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| REMARKS  |                  |              |  |  |                  |                        |                       |               |                    |                |                    |                |             |                         |  |             |                    |             |             |             |             |             |             |             |             |             |             |             |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |
|--|--|

| 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 |
|--|------|-----------|----------------------------|------------------------------|------------------|---------|-----|-----|-----|-----|--------------------|----------|---|---|-------------|---|-----------------------|---|-------------------|---|---|---|---|----------|----------|----------|---|---|-----------|
|  |      |           |                            |                              | 2006             |         |     |     |     |     | CALENDAR YEAR 2007 |          |   |   |             |   | CALENDAR YEAR 2008    |   |                   |   |   |   |   |          |          |          |   |   |           |
|  |      |           |                            |                              | OCT              | NOV     | DEC | JAN | FEB | MAR | A                  | M        | J | J | A           | S | O                     | N | D                 | J | F | M | A | M        | J        | J        | A | S |           |
| 2002   | USAF | 2         | 2                          | 0                            |                  |         |     |     |     |     |                    |          |   |   |             |   |                       |   |                   |   |   |   |   |          |          | 0        |   |   |           |
| 2003   | USAF | 2         | 2                          | 0                            |                  |         |     |     |     |     |                    |          |   |   |             |   |                       |   |                   |   |   |   |   |          |          | 0        |   |   |           |
| 2004   | USAF | 4         | 4                          | 0                            |                  |         |     |     |     |     |                    |          |   |   |             |   |                       |   |                   |   |   |   |   |          |          | 0        |   |   |           |
| 2005   | USAF | 4         | 2                          | 2                            |                  | 1       |     |     |     | 1   |                    |          |   |   |             |   |                       |   |                   |   |   |   |   |          |          | 0        |   |   |           |
| 2006   | USAF | 4         | 0                          | 4                            |                  |         |     |     |     |     |                    | 1        |   |   |             |   |                       |   | 1                 |   |   |   |   |          |          | 0        |   |   |           |
| 2007   | USAF | 10        | 0                          | 10                           |                  |         |     |     |     |     |                    |          |   |   |             |   |                       |   |                   |   |   |   |   | 2        | 3        | 5        |   |   |           |
| <b>TOTAL</b>   |      | <b>26</b> | <b>10</b>                  | <b>16</b>                    |                  |         |     |     |     |     |                    | <b>1</b> |   |   |             |   |                       |   |                   |   |   |   |   | <b>2</b> | <b>3</b> | <b>5</b> |   |   |           |
|  |      |           |                            |                              | OCT              | NOV     | DEC | JAN | FEB | MAR | A                  | M        | J | J | A           | S | O                     | N | D                 | J | F | M | A | M        | J        | J        | A | S |           |
|  |      |           |                            |                              | T                | V       | C   | N   | B   | R   | R                  | Y        | N | L | G           | P | T                     | V | C                 | N | B | R | R | Y        | N        | L        | G | P | R         |
|  |      |           |                            |                              | PRODUCTION RATES |         |     |     |     |     |                    |          |   |   |             |   | PROCUREMENT LEAD TIME |   |                   |   |   |   |   |          |          |          |   |   |           |
| ITEM/MANUFACTURER'S NAME                                 |      | LOCATION  |                            | MIN SUST                     | SHIFT HOURS      | REACHED |     |     |     |     | ADMIN LEAD TIME    |          |   |   | MFG TIME    |   |                       |   | TOTAL AFTER 1 OCT |   |   |   |   |          |          |          |   |   |           |
| Global Hawk /Northrop Grumman - Ryan Aeronautical Center |      |           |                            |                              |                  | D+      |     |     |     |     | PRIOR 1 OCT        |          |   |   | AFTER 1 OCT |   |                       |   |                   |   |   |   |   |          |          |          |   |   |           |
|  |      |           |                            |                              |                  |         |     |     |     |     |                    |          |   |   |             |   |                       |   |                   |   |   |   |   |          |          |          |   |   |           |
|  |      |           |                            |                              |                  |         |     |     |     |     |                    |          |   |   |             |   |                       |   |                   |   |   |   |   |          |          |          |   |   |           |
| REMARKS  |      |           |                            |                              |                  |         |     |     |     |     |                    |          |   |   |             |   |                       |   |                   |   |   |   |   |          |          |          |   |   |           |

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |
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| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |     |     |     |     |     |                    |   |   |   |   |   | FISCAL YEAR 2002   |   |   |   |   |   |   |   |   |   |          |   | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|---|---|---|---|---|--------------------|---|---|---|---|---|---|---|---|---|----------|---|-----------|
|                  |      |           |                            |                              | 2000             |     |     |     |     |     | CALENDAR YEAR 2001 |   |   |   |   |   | CALENDAR YEAR 2002 |   |   |   |   |   |   |   |   |   |          |   |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | A                  | M | J | J | A | S | O                  | N | D | J | F | M | A | M | J | J | A        | S |           |
| 2002             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |   |   | 1        |   |           |
| 2004             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |   |   | 1        |   |           |
| 2005             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |   |   | 1        |   |           |
| 2006             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |   |   | 1        |   |           |
| 2007             | USAF | 2         | 0                          | 2                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |   |   | 2        |   |           |
| <b>TOTAL</b>     |      | <b>6</b>  | <b>0</b>                   | <b>6</b>                     |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |   |   | <b>6</b> |   |           |

| ITEM/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 |          |                   |  |  |
| MCE/ Northrop Grumman Ryan Aeronautical Center | Rancho Bernardo, CA | 1                | 1-8-5            | 2     |            |                       |             |          |                   |  |  |
|  |                     |                  |                  |       | INITIAL    | 2                     | 2           | 25       | 27                |  |  |
|  |                     |                  |                  |       | REORDER    | 2                     | 2           | 25       | 27                |  |  |

**REMARKS**  
These production rates are for the MCE component of the ground station only and are separate from the air vehicle production rates.

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |
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| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2002 | BALANCE DUE AS OF 1 OCT 2002 | FISCAL YEAR 2003 |     |     |     |     |     |                    |     |     |     |     |     | FISCAL YEAR 2004   |     |     |     |     |     |     |     |     |     |     |          | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----------|
|                  |      |           |                            |                              | 2002             |     |     |     |     |     | CALENDAR YEAR 2003 |     |     |     |     |     | CALENDAR YEAR 2004 |     |     |     |     |     |     |     |     |     |     |          |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP      |           |
| 2002             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     | 0        |           |
| 2004             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     | 1        |           |
| 2005             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     | 1        |           |
| 2006             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     | 1        |           |
| 2007             | USAF | 2         | 0                          | 2                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     | 2        |           |
| <b>TOTAL</b>     |      | <b>6</b>  | <b>0</b>                   | <b>6</b>                     |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     | <b>5</b> |           |

| ITEM/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 |          |                   |  |  |  |
| MCE/ Northrop Grumman Ryan Aeronautical Center |          |                  |                  |       |            |                       |             |          |                   |  |  |  |
|  |          |                  |                  |       |            |                       |             |          |                   |  |  |  |
|  |          |                  |                  |       |            |                       |             |          |                   |  |  |  |
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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |
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| 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 |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|--------------------|-----|-----|----------|-----|-----|-----|-----|--------------------|-----|-----|----------|-----|-----|-----|-----|-----|-----|----------|-----|-----------|
|                  |      |           |                            |                              | 2004             |     |     |     | CALENDAR YEAR 2005 |     |     |          |     |     |     |     | CALENDAR YEAR 2006 |     |     |          |     |     |     |     |     |     |          |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB                | MAR | APR | MAY      | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN      | FEB | MAR | APR | MAY | JUN | JUL | AUG      | SEP |           |
| 2002             | USAF | 1         | 1                          | 0                            |                  |     |     |     |                    |     |     |          |     |     |     |     |                    |     |     |          |     |     |     |     |     |     | 0        |     |           |
| 2004             | USAF | 1         | 0                          | 1                            |                  |     |     |     |                    |     |     | 1        |     |     |     |     |                    |     |     |          |     |     |     |     |     |     | 0        |     |           |
| 2005             | USAF | 1         | 0                          | 1                            |                  |     |     |     |                    |     |     |          |     |     |     |     |                    |     |     | 1        |     |     |     |     |     |     | 0        |     |           |
| 2006             | USAF | 1         | 0                          | 1                            |                  |     |     |     |                    |     |     |          |     |     |     |     |                    |     |     |          |     |     |     |     |     |     | 1        |     |           |
| 2007             | USAF | 2         | 0                          | 2                            |                  |     |     |     |                    |     |     |          |     |     |     |     |                    |     |     |          |     |     |     |     |     |     | 2        |     |           |
| <b>TOTAL</b>     |      | <b>6</b>  | <b>1</b>                   | <b>5</b>                     |                  |     |     |     |                    |     |     | <b>1</b> |     |     |     |     |                    |     |     | <b>1</b> |     |     |     |     |     |     | <b>3</b> |     |           |

| ITEM/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 |          |                   |  |  |  |
| MCE/ Northrop Grumman Ryan Aeronautical Center |          |                  |                  |       |            |                       |             |          |                   |  |  |  |
|  |          |                  |                  |       |            |                       |             |          |                   |  |  |  |
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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |
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| 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 |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|---|---|---|---|---|--------------------|---|---|---|---|---|---|---|----------|----------|---|---|-----------|
|                  |      |           |                            |                              | 2006             |     |     |     |     |     | CALENDAR YEAR 2007 |   |   |   |   |   | CALENDAR YEAR 2008 |   |   |   |   |   |   |   |          |          |   |   |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | A                  | M | J | J | A | S | O                  | N | D | J | F | M | A | M | J        | J        | A | S |           |
| 2002             | USAF | 1         | 1                          | 0                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |          | 0        |   |   |           |
| 2004             | USAF | 1         | 1                          | 0                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |          | 0        |   |   |           |
| 2005             | USAF | 1         | 1                          | 0                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |          | 0        |   |   |           |
| 2006             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     | 1                  |   |   |   |   |   |                    |   |   |   |   |   |   |   |          | 0        |   |   |           |
| 2007             | USAF | 2         | 0                          | 2                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   | 2        | 0        |   |   |           |
| <b>TOTAL</b>     |      | <b>6</b>  | <b>3</b>                   | <b>3</b>                     |                  |     |     |     |     |     | <b>1</b>           |   |   |   |   |   |                    |   |   |   |   |   |   |   | <b>2</b> | <b>0</b> |   |   |           |

| ITEM/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 |  |  |  |  |
| MCE/ Northrop Grumman Ryan Aeronautical Center |          |                  |                  |       |            |                       |  |          |                   |  |  |  |  |
|  |          |                  |                  |       |            |                       |  |          |                   |  |  |  |  |
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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |
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| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |     |     |     |     |     |                    |     |     |     |     |     | FISCAL YEAR 2002   |     |     |     |     |     |     |     |          |     |     |     | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|----------|-----|-----|-----|-----------|
|                  |      |           |                            |                              | 2000             |     |     |     |     |     | CALENDAR YEAR 2001 |     |     |     |     |     | CALENDAR YEAR 2002 |     |     |     |     |     |     |     |          |     |     |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN      | JUL | AUG | SEP |           |
| 2003             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     | 1        |     |     |     |           |
| 2004             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     | 1        |     |     |     |           |
| 2005             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     | 1        |     |     |     |           |
| 2006             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     | 1        |     |     |     |           |
| 2007             | USAF | 2         | 0                          | 2                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     | 2        |     |     |     |           |
| <b>TOTAL</b>     |      | <b>6</b>  | <b>0</b>                   | <b>6</b>                     |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     | <b>6</b> |     |     |     |           |

| ITEM/MANUFACTURER'S NAME                      | LOCATION            | PRODUCTION RATES |             |       | REACHED D+      | PROCUREMENT LEAD TIME |             |          |                   |
|---|---------------------|------------------|-------------|-------|-----------------|-----------------------|-------------|----------|-------------------|
|   |                     | MIN SUST         | SHIFT HOURS | M A X |                 | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |
|   |                     |                  |             |       |                 | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |
| LRE/Northrop Grumman Ryan Aeronautical Center | Rancho Bernardo, CA | 1                | 1-8-5       | 2     |                 | 2                     | 2           | 25       | 27                |
|   |                     |                  |             |       | INITIAL REORDER | 2                     | 2           | 25       | 27                |

**REMARKS**  
 These production rates are for the LRE component of the ground station only and are separate from the air vehicle production rates.

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |
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| 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 |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-------|--------------------|-----|-----|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
|                  |      |           |                            |                              | 2004             |     |     |       | CALENDAR YEAR 2005 |     |     |     |     |     |     |     | CALENDAR YEAR 2006 |     |     |     |     |     |     |     |     |     |     |     |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | TOTAL | JAN                | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP                | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG |           |
| 2003             | USAF | 1         | 1                          | 0                            |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| 2004             | USAF | 1         | 0                          | 1                            |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| 2005             | USAF | 1         | 0                          | 1                            |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| 2006             | USAF | 1         | 0                          | 1                            |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| 2007             | USAF | 2         | 0                          | 2                            |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| <b>TOTAL</b>     |      | <b>6</b>  | <b>1</b>                   | <b>5</b>                     |                  |     |     |       |                    |     |     |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |

| ITEM/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           |  |          |                   |
| LRE/Northrop Grumman Ryan Aeronautical Center |          |                  |                  |       |             |                       |  |          |                   |
|   |          |                  |                  |       |             |                       |  |          |                   |
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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 21</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV</b> |
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| 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 |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|---|---|---|---|---|--------------------|---|---|---|---|---|---|---|----------|---|----------|---|-----------|
|                  |      |           |                            |                              | 2006             |     |     |     |     |     | CALENDAR YEAR 2007 |   |   |   |   |   | CALENDAR YEAR 2008 |   |   |   |   |   |   |   |          |   |          |   |           |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | A                  | M | J | J | A | S | O                  | N | D | J | F | M | A | M | J        | J | A        | S |           |
| 2003             | USAF | 1         | 1                          | 0                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |          |   | 0        |   |           |
| 2004             | USAF | 1         | 1                          | 0                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |          |   | 0        |   |           |
| 2005             | USAF | 1         | 1                          | 0                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   |          |   | 0        |   |           |
| 2006             | USAF | 1         | 0                          | 1                            |                  |     |     |     |     |     | 1                  |   |   |   |   |   |                    |   |   |   |   |   |   |   |          |   | 0        |   |           |
| 2007             | USAF | 2         | 0                          | 2                            |                  |     |     |     |     |     |                    |   |   |   |   |   |                    |   |   |   |   |   |   |   | 2        |   | 0        |   |           |
| <b>TOTAL</b>     |      | <b>6</b>  | <b>3</b>                   | <b>3</b>                     |                  |     |     |     |     |     | <b>1</b>           |   |   |   |   |   |                    |   |   |   |   |   |   |   | <b>2</b> |   | <b>0</b> |   |           |

| ITEM/MANUFACTURER'S NAME                      | LOCATION | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |             |          |                   |  |  |  |  |  |
|---|----------|------------------|-------------|-------|------------|-----------------------|-------------|----------|-------------------|--|--|--|--|--|
|   |          | MIN SUST         | SHIFT HOURS | M A X |            | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |  |  |  |  |  |
|   |          |                  |             |       |            | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |  |  |  |  |  |
| LRE/Northrop Grumman Ryan Aeronautical Center |          |                  |             |       |            |                       |             |          |                   |  |  |  |  |  |
|   |          |                  |             |       |            |                       |             |          |                   |  |  |  |  |  |
|   |          |                  |             |       |            |                       |             |          |                   |  |  |  |  |  |

REMARKS



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| <b>Exhibit P-40, Budget Item Justification</b>   | Date: February 2002  |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 22</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV<br/>Advance Procurement</b> |

| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         |         | N/A |         |       |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|-----|---------|-------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |     | To Comp | Total |
| Proc Qty                          | A       |             |         |         |                                 |         |         |         |         |     |         |       |
| Cost (\$ M)                       |         |             |         |         |                                 |         |         |         |         |     |         |       |
| Advance Proc Cost (\$ M )         |         |             | 21.045  | 33.500  | 41.000                          | 41.900  | 62.000  | 109.200 | 155.000 |     | TBD     | TBD   |
| Weapon System Cost (\$ M)         |         |             | 21.045  | 33.500  | 41.000                          | 41.900  | 62.000  | 109.200 | 155.000 |     | TBD     | TBD   |
| Initial Spares (\$ M)             |         |             |         |         |                                 |         |         |         |         |     |         |       |
| Total Proc Cost (\$ M)            |         |             | 21.045  | 33.500  | 41.000                          | 41.900  | 62.000  | 109.200 | 155.000 |     | TBD     | TBD   |
| Flyaway Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |     |         |       |
| Wpn Sys Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |     |         |       |

**Description**

The Global Hawk Program consists of the RQ-4A Unmanned Aerial Vehicle (UAV), the AN/MSQ-131 Ground Segment (GS), and the support system. The GS consists of the Mission Control Element (MCE) and the Launch and Recovery Element (LRE). The Global Hawk System is designed to provide continuous, all-weather, day/night, wide-area surveillance and reconnaissance and includes the communications and interfaces with other theater systems required to support joint tactical warfighters at various levels of command. Global Hawk is an autonomous, high-altitude, long-endurance unmanned aircraft that is directly responsive to theater tasking. Global Hawk will integrate with the existing tactical airborne reconnaissance architectures for tasking, mission planning, data processing, exploitation, and dissemination. It includes an Integrated Sensor Suite (ISS) which contains Synthetic Aperture Radar (SAR) with Ground Moving Target Indicator (GMTI) capability, along with an electro-optical (EO)/infrared (IR) camera. It is designed to provide up to 40,000 sq. nmi. of search radar imagery and electro-Optical (EO) or infrared (IR) imagery per mission. Global Hawk is designed as a standoff imagery platform, with the capability to operate in low-to-moderate air defense threat environments, and collect imagery while looking deep into high-threat areas.

Initial spares for the Global Hawk Program are included in the weapon system cost line. The Global Hawk Program will not separately budget for initial spares. The program intends to include initial spares and support equipment under the low-rate initial production (LRIP) contract as part of the Reformed Supply Support Program (RSSP). The LRIP contract, to be awarded in FY02, will fund these requirements initially with Budget Program (BP) 10 funding. Under interim supply support (ISS), the contractor will provide spares as a capability, to achieve an agreed-to availability rate. The amount of initial spares will not be separately priced or provided to the Air Force.

The Global Hawk Program will award a logistics support contract to fund Interim Contractor Support (ICS) in FY02.

Flyaway Cost includes recurring production for the Global Hawk system (aircraft and GS) plus Systems Engineering /Program Management, Engineering Change Orders, Systems Test and Engineering, and Non-Recurring Tooling. Weapon System Cost includes the Flyaway Cost plus interim supply support, ICS, operational site activation, data, support equipment, and training. These costs fluctuate throughout the FYDP due to the timing of ground stations and new sensor capabilities, including a SIGINT

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| <b>Exhibit P-40, Budget Item Justification</b>   | Date: February 2002  |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 22</b>   | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV<br/>Advance Procurement</b> |
| <p><b><u>Description Continued</u></b><br/>capability starting in FY06.</p> <p><b><u>FY 2003 Program Justification</u></b><br/>Global Hawk transitioned from an Advanced Concept Technology Demonstration (ACTD) to a DoD 5000 ACAT 1D acquisition program during FY01. An Acquisition Decision Memorandum was signed 6 Mar 01, approving entry into Engineering and Manufacturing Development (EMD) using spiral development and authorizing Low-rate Initial Production (LRIP). Throughout the FYDP, the program will continue spiral development to enhance the design of the system to meet Operational Requirements Document (ORD) performance and capabilities.</p> <p>In FY02, the Global Hawk LRIP program will commence procurement of two air vehicles and one MCE (with advance procurement in FY01 and delivery starting in FY03). In FY03, the Global Hawk LRIP program will procure two aircraft and one LRE (with advance procurement in FY02 and delivery in FY04). In FY04-06, the Global Hawk LRIP program will procure four aircraft and one GS. In FY07, the Global Hawk full-rate production program will procure ten aircraft and two GSs.</p> <p>Advance procurement purchases long-lead components for the aircraft and ground stations. Long lead for production began in FY01 for delivery in FY03. Total lead time for aircraft and ground stations is 25 months from receipt of order; 6-8 months for long lead of aircraft or ground station components, 18-21 months for long lead of payload components, and 16-18 months for fabrication and assembly.</p> |  |
| P-1 Shopping List Item No. 22  | Budget Item Justification<br>Exhibit P-40, page 2 of 4                                     |

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| <b>Exhibit P-10 p.1, Advance Procurement Requirements Analysis<br/>(Page 1 - Funding)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 22</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV<br/>Advance Procurement</b> |
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|                         |                                   |  |
|-------------------------|-----------------------------------|--|
| Weapon System<br>HAE_AP | First System Award Date<br>Jun-01 | First System Completion Date<br>Jun-03 |
|-------------------------|-----------------------------------|--|

| (\$ in Millions) |     |          |             |         |         |         |         |         |         |         |         |         |
|------------------|-----|----------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Description      | PLT | When Rqd | Prior Years | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | To Comp | Total   |
| End Item Qty     |     |          |             | 0       | 2       | 2       | 4       | 4       | 4       | 10      | TBD     | 26      |
| CFE              |     |          |             | 20.726  | 32.500  | 40.000  | 40.900  | 61.000  | 108.200 | 154.000 | TBD     | 457.326 |
| GFE              |     |          |             | 0.319   | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   | TBD     | 6.319   |
| EOQ              |     |          |             | N/A     | N/A     | 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     | N/A     | N/A     | 0.000   |
| Term Liability   |     |          |             | N/A     | N/A     | N/A     | N/A     | N/A     | N/A     | N/A     | N/A     | 0.000   |
| <b>TOTAL AP</b>  |     |          |             | 21.045  | 33.500  | 41.000  | 41.900  | 62.000  | 109.200 | 155.000 | 0.000   | 463.645 |

**Description:**  
CFE and GFE figures are the long lead funding costs for Global Hawk and GS (MCE and LRE).

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| <b>Exhibit P-10 p.2, Advance Procurement Requirements Analysis<br/>(Page 2 - Budget Justification)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 22</b> | P-1 Line Item Nomenclature<br><b>High Altitude Endurance - UAV<br/>Advance Procurement</b> |
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Weapon System  
HAE\_AP

(TOA, \$ in Millions)

| Description | PLT | OPA | Unit Cost | 2001 QTY | 2001                         | 2001 Total      | 2002 QTY | 2002                         | 2002 Total      | 2003 QTY | 2003                         | 2003 Total      |
|-------------|-----|-----|-----------|----------|------------------------------|-----------------|----------|------------------------------|-----------------|----------|------------------------------|-----------------|
|             |     |     |           |          | Contract<br>Forecast<br>Date | Cost<br>Request |          | Contract<br>Forecast<br>Date | Cost<br>Request |          | Contract<br>Forecast<br>Date | Cost<br>Request |
| End Item    |     |     |           |          |                              |                 | 2        |                              | 116.581         | 2        |                              | 104.861         |

|                     |    |   |       |   | Jun-01 |        |   | Mar-02 |       |   | Mar-03 |        |
|---------------------|----|---|-------|---|--------|--------|---|--------|-------|---|--------|--------|
| CFE                 |    |   |       |   |        |        |   |        |       |   |        |        |
| Payload             | 22 | 1 | 3.969 | 2 |        | 7.937  |   |        |       |   |        |        |
| Aircraft Lead Items | 25 | 1 | 6.395 | 2 |        | 12.789 |   |        |       |   |        |        |
| Payload             | 22 | 1 | 6.950 |   |        |        | 2 | 13.900 |       |   |        |        |
| Aircraft lead items | 25 | 1 | 8.350 |   |        |        | 2 | 16.700 |       |   |        |        |
| LRE Lead items      | 20 | 1 | 1.900 |   |        |        | 1 | 1.900  |       |   |        |        |
| CGS Components      | 20 | 1 | 4.400 |   |        |        |   |        |       | 1 |        | 4.400  |
| Payload             | 22 | 1 | 4.525 |   |        |        |   |        |       | 4 |        | 18.100 |
| Aircraft Lead items | 25 | 1 | 4.375 |   |        |        |   |        |       | 4 |        | 17.500 |
| GFE                 |    |   |       |   |        | 0.319  |   |        | 1.000 |   |        | 1.000  |

|                 |     |  |  |  |  |        |  |  |        |  |  |        |
|-----------------|-----|--|--|--|--|--------|--|--|--------|--|--|--------|
| EOQ             | N/A |  |  |  |  |        |  |  | N/A    |  |  | N/A    |
| Design          | N/A |  |  |  |  |        |  |  | N/A    |  |  | N/A    |
| Term Liability  | N/A |  |  |  |  |        |  |  | N/A    |  |  | N/A    |
| <b>TOTAL AP</b> |     |  |  |  |  | 21.045 |  |  | 33.500 |  |  | 41.000 |

**Description:**

P-1 Shopping List Item No. 22

**Advance Procurement Requirements Analysis  
(Page 2 - Budget Justification)  
Exhibit P-10 p.2, page 4 of 4**

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23</b> | P-1 Line Item Nomenclature<br><b>PREDATOR UAV</b> |
|--|---|

|                                   |         |                                 |         |         |         |         |         |         |         |  |         |       |
|-----------------------------------|---------|---------------------------------|---------|---------|---------|---------|---------|---------|---------|--|---------|-------|
| Program Element for Code B Items: | 35205F  | Other Related Program Elements: | 27245F  |         |         |         |         |         |         |  |         |       |
|                                   | ID Code | Prior Years                     | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 |  | To Comp | Total |
| Proc Qty                          | A       | 49                              | 7       | 6       | 7       | 7       | 8       | 9       | 9       |  | TBD     | TBD   |
| Total Proc Cost (\$ M)            |         | 265.503                         | 30.014  | 35.783  | 23.068  | 23.741  | 27.486  | 31.274  | 31.971  |  | TBD     | TBD   |

**Description**

1. In FY02, Predator received \$167.6M as part of the Defense Emergency Relief Fund (DERF). Funding was used to outfit Predator with the Multi-spectral Targeting System (MTS) laser designator/sensor turret and Hellfire missile launch capability, provide enabling improvements, purchase four additional Predator aircraft, and purchase three Predator-B aircraft in support of operation Enduring Freedom. An additional \$26M in the final increment is pending release and will be used to complete the MTS retro-fit and enabling improvements. This funding is not reflected in the FY02 program total.

2. In FY03, the Predator anticipates receiving \$124.0M from the Cost of War Transfer Account. These funds are not included in the FY03 Air Force baseline. Funding will be used to begin the procurement of 3 additional MQ-9 Predator B squadrons and accelerate current RQ-1 Predator A production.

The RQ-1 Predator 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. Congress added production funds in FY00 for laser/EO/IR capable turret. Air Force funded the procurement of a permanent laser designator for use with precision guided munitions in FY02. In addition, Congress added production funds in FY02 for three Predator-B aircraft.

**FY 2003 Program Justification**

Procurement funding includes system production, production support, engineering services, and acceptance testing and evaluation. FY01 funding supported the procurement of attrition air vehicles and ice protection kits. FY02 funds support the procurement of attrition air vehicles to replace the air vehicles that crashed during the past 18 months. FY03-07 funds procure attrition air vehicles.

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| P-1 Shopping List Item No. 23 | <b>Budget Item Justification<br/>Exhibit P-40, page 1 of 15</b> |
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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23</b> | P-1 Line Item Nomenclature<br><b>PREDATOR UAV</b> |
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|   |              |
|---|--------------|
| Manufacturer's Name/Plant City/State Location<br>General Atomics ASI/Rancho Bernardo/CA | Subline Item |
|---|--------------|

| Weapon System<br>Cost Elements                    | Ident<br>Code | Total Cost In Millions of Dollars |           |            |         |           |            |         |           |            |
|---|---------------|-----------------------------------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
|   |               | FY 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|   |               | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| System: Air Vehicles, Data Links, SARs, GCS, PPSL | A             |                                   |           |            |         |           |            |         |           |            |
| Air Vehicles, Predator                            | A             | 7                                 |           | 29.664     | 6       |           | 16.483     | 7       |           | 20.273     |
| Air Vehicles, Predator-B                          | A             |                                   |           |            | 3       |           | 17.000     |         |           |            |
| P3I   | A             |                                   |           |            |         |           | 1.200      |         |           | 1.224      |
| Production Support                                | A             |                                   |           | 0.350      |         |           | 0.350      |         |           | 0.996      |
| Interim Contractor Logistic Supprt                | A             |                                   |           |            |         |           |            |         |           |            |
| Integrated Logistics Support*                     | A             |                                   |           |            |         |           | 0.750      |         |           | 0.575      |
| Laser Targeting Designator**                      | A             |                                   |           |            |         |           |            |         |           |            |
| <b>TOTAL PROGRAM</b>                              |               |                                   |           | 30.014     |         |           | 35.783     |         |           | 23.068     |

**Comments**  
 \*Integrated Logistics Support includes Spares.  
 \*\* FY00 Congressional add to integrate existing laser designators with ISR capability.

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| <b>Exhibit P-5A, Procurement History and Planning</b>                                   |     |           |                 |                |                 |               |   | Date: February 2002        |                        |                      |                           |  |
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| 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>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   | 7   |           | 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                  |                           |  |
| PRED B/General Atomics ASI  | 3   |           | ASC/RAKB        |                | SS              | FFP           | PRED B/General Atomics ASI, Rancho Bernardo, CA | Mar-02                     | Sep-03                 | Yes                  |                           |  |

P-1 Shopping List Item No. 23

Procurement History and Planning

Exhibit P-5A, page 3 of 15

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| <b>Exhibit P-5A, Procurement History and Planning</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23</b> | P-1 Line Item Nomenclature<br><b>PREDATOR UAV</b> |
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| <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? |  |
| FY 2003                 |     |           |                 |                        |                 |               |                         |            |                        |                      |                           |  |
| A/V/General Atomics ASI | 7   |           | ASC/RAKB        |                        | SS              | FFP           | General Atomics         | Dec-02     | Nov-03                 | Yes                  |                           |  |
| FY 2004                 |     |           |                 |                        |                 |               |                         |            |                        |                      |                           |  |
| A/V/General Atomics ASI | 7   |           | 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                  |                           |  |
| FY 2006                 |     |           |                 |                        |                 |               |                         |            |                        |                      |                           |  |
| A/V/General Atomics ASI | 9   |           | ASC/RAKB        |                        | SS              | FFP           | General Atomics         | Dec-05     | Nov-06                 | Yes                  |                           |  |
| FY 2007                 |     |           |                 |                        |                 |               |                         |            |                        |                      |                           |  |
| A/V/General Atomics ASI | 9   |           | ASC/RAKB        |                        | SS              | FFP           | General Atomics         | Dec-06     | Nov-07                 | Yes                  |                           |  |

**Remarks**

- A system is comprised of four air vehicles, one Ground Control Station (GCS), and one PPSL. PPSL was procured separately under a contract with L-3 Comm. The SAR was procured separately 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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Exhibit P-21, Production Schedule Date: February 2002

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. 23** **PREDATOR UAV**

| PROCUREMENT YEAR         | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |       |         |     |     |                 |                    |     |     |          |     |                   | FISCAL YEAR 2002   |     |     |     |     |     |     |     |     |     |     |     | L A T E R |
|--------------------------|------|-----------|----------------------------|------------------------------|------------------|-------|---------|-----|-----|-----------------|--------------------|-----|-----|----------|-----|-------------------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
|                          |      |           |                            |                              | 2000             |       |         |     |     |                 | CALENDAR YEAR 2001 |     |     |          |     |                   | CALENDAR YEAR 2002 |     |     |     |     |     |     |     |     |     |     |     |           |
|                          |      |           |                            |                              | OCT              | NOV   | DEC     | JAN | FEB | MAR             | APR                | MAY | JUN | JUL      | AUG | SEP               | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |           |
| 1998                     | USAF | 4         | 4                          | 0                            |                  |       |         |     |     |                 |                    |     |     |          |     |                   |                    |     |     |     |     |     |     |     |     |     | 0   |     |           |
| 1999                     | USAF | 2         | 2                          | 0                            |                  |       |         |     |     |                 |                    |     |     |          |     |                   |                    |     |     |     |     |     |     |     |     |     | 0   |     |           |
| TOTAL                    |      | 6         | 6                          | 0                            |                  |       |         |     |     |                 |                    |     |     |          |     |                   |                    |     |     |     |     |     |     |     |     |     | 0   |     |           |
|                          |      |           |                            |                              | OCT              | NOV   | DEC     | JAN | FEB | MAR             | APR                | MAY | JUN | JUL      | AUG | SEP               | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |           |
| ITEM/MANUFACTURER'S NAME |      |           | LOCATION                   | PRODUCTION RATES             |                  |       | REACHED |     |     | ADMIN LEAD TIME |                    |     |     | MFG TIME |     | TOTAL AFTER 1 OCT |                    |     |     |     |     |     |     |     |     |     |     |     |           |
| PPSL/L-3 Comm            |      |           | Salt Lake City, UT         | MIN SUST                     | SHIFT HOURS      | M A X | D+      |     |     |                 |                    |     |     |          |     |                   |                    |     |     |     |     |     |     |     |     |     |     |     |           |
|                          |      |           |                            |                              | 1-8-5            | 4     |         |     |     | INITIAL         |                    |     |     |          |     | 6                 |                    |     |     |     |     |     |     |     |     |     |     |     |           |
|                          |      |           |                            |                              |                  |       |         |     |     | REORDER         |                    |     |     |          |     | 1                 |                    |     |     |     |     |     |     |     |     |     |     |     |           |
|                          |      |           |                            |                              |                  |       |         |     |     |                 |                    |     |     |          |     | 6                 |                    |     |     |     |     |     |     |     |     |     |     |     |           |
|                          |      |           |                            |                              |                  |       |         |     |     |                 |                    |     |     |          |     | 1                 |                    |     |     |     |     |     |     |     |     |     |     |     |           |
|                          |      |           |                            |                              |                  |       |         |     |     |                 |                    |     |     |          |     | 14                |                    |     |     |     |     |     |     |     |     |     |     |     |           |
|                          |      |           |                            |                              |                  |       |         |     |     |                 |                    |     |     |          |     | 14                |                    |     |     |     |     |     |     |     |     |     |     |     |           |
|                          |      |           |                            |                              |                  |       |         |     |     |                 |                    |     |     |          |     | 20                |                    |     |     |     |     |     |     |     |     |     |     |     |           |
|                          |      |           |                            |                              |                  |       |         |     |     |                 |                    |     |     |          |     | 15                |                    |     |     |     |     |     |     |     |     |     |     |     |           |

REMARKS

- Systems--A system is comprised of four air vehicles, one Ground Control Station (GCS), one PPSL and three SARs. SARs will be procured seperately under a contract with Northrup Grumman. PPSL will be procured seperately under a contract with L-3 Comm.
- SAR--Three SAR per four air vehicles. Life-time buy of SAR due to DMS issue. (Level A/C buys).
- Air Vehicle represented include system and/or attrition air vehicles.
- Minimum air vehicle sustaining production rate is seven air vehicles per 12 month period.
- Maximum production rate is 1.5 air vehicles per month; 18 per year.

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
|--|---------------------|

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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23</b> | P-1 Line Item Nomenclature<br><b>PREDATOR UAV</b> |
|--|---|

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |     |     |     |     |     |                    |     |     |     |     |     | FISCAL YEAR 2002   |     |     |     |     |     |     |     |     |     |     |     | LATRE |          |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|----------|
|                  |      |           |                            |                              | 2000             |     |     |     |     |     | CALENDAR YEAR 2001 |     |     |     |     |     | CALENDAR YEAR 2002 |     |     |     |     |     |     |     |     |     |     |     |       |          |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |       |          |
| 1998             | USAF | 27        | 19                         | 8                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |       | 0        |
| 1999             | USAF | 24        | 0                          | 24                           |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |       | 0        |
| <b>TOTAL</b>     |      | <b>51</b> | <b>19</b>                  | <b>32</b>                    |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |       | <b>0</b> |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |       |          |

| ITEM/MANUFACTURER'S NAME | LOCATION      | PRODUCTION RATES |             |       | REACHED D+ | PROCUREMENT LEAD TIME |             |          |                   |   |   |    |    |  |  |  |   |   |    |    |  |  |  |  |  |  |  |  |  |  |
|--------------------------|---------------|------------------|-------------|-------|------------|-----------------------|-------------|----------|-------------------|---|---|----|----|--|--|--|---|---|----|----|--|--|--|--|--|--|--|--|--|--|
|                          |               | MIN SUST         | SHIFT HOURS | M/A/X |            | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |   |   |    |    |  |  |  |   |   |    |    |  |  |  |  |  |  |  |  |  |  |
|                          |               |                  |             |       |            | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |   |   |    |    |  |  |  |   |   |    |    |  |  |  |  |  |  |  |  |  |  |
| SAR/Northrop Grumman     | Baltimore, MD | 7                | 1-8-5       | 27    |            |                       |             |          |                   |   |   |    |    |  |  |  | 6 | 6 | 14 | 20 |  |  |  |  |  |  |  |  |  |  |
|                          |               |                  |             |       |            |                       |             |          | INITIAL           | 6 | 6 | 14 | 20 |  |  |  |   |   |    |    |  |  |  |  |  |  |  |  |  |  |
|                          |               |                  |             |       |            |                       |             |          | REORDER           | 1 | 1 | 14 | 15 |  |  |  |   |   |    |    |  |  |  |  |  |  |  |  |  |  |

REMARKS

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**Exhibit P-21, Production Schedule** Date: February 2002

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number  
**Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23**

P-1 Line Item Nomenclature  
**PREDATOR UAV**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |          |          |          |          |          |                    |          |          |          |          |          | FISCAL YEAR 2002   |          |          |          |          |          |          |          |          |           |   |   | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|---|---|-----------|
|                  |      |           |                            |                              | 2000             |          |          |          |          |          | CALENDAR YEAR 2001 |          |          |          |          |          | CALENDAR YEAR 2002 |          |          |          |          |          |          |          |          |           |   |   |           |
|                  |      |           |                            |                              | OCT              | NOV      | DEC      | JAN      | FEB      | MAR      | A                  | M        | J        | J        | A        | S        | O                  | N        | D        | J        | F        | M        | A        | M        | J        | J         | A | S |           |
| 1998             | USAF | 16        | 16                         | 0                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 0         |   |   |           |
| 1999             | USAF | 11        | 0                          | 11                           |                  | 1        | 1        | 1        | 1        | 1        | 1                  | 1        | 1        | 1        |          |          |                    |          |          |          |          |          |          |          |          | 0         |   |   |           |
| 2000             | USAF | 7         | 0                          | 7                            |                  |          |          |          |          |          |                    |          |          |          | 1        | 1        | 1                  | 1        | 1        | 1        |          |          |          |          |          | 0         |   |   |           |
| 2001             | USAF | 7         | 0                          | 7                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |          |          |          |          | 1        | 1        | 1        | 1        | 3         |   |   |           |
| 2002             | USAF | 6         | 0                          | 6                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 6         |   |   |           |
| 2003             | USAF | 7         | 0                          | 7                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 7         |   |   |           |
| 2004             | USAF | 7         | 0                          | 7                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 7         |   |   |           |
| 2005             | USAF | 8         | 0                          | 8                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 8         |   |   |           |
| 2006             | USAF | 9         | 0                          | 9                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 9         |   |   |           |
| 2007             | USAF | 9         | 0                          | 9                            |                  |          |          |          |          |          |                    |          |          |          |          |          |                    |          |          |          |          |          |          |          |          | 9         |   |   |           |
| <b>TOTAL</b>     |      | <b>87</b> | <b>16</b>                  | <b>71</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>1</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>1</b> | <b>1</b> | <b>1</b> | <b>49</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 |
|  |  |  |  |  |  | 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 |

| ITEM/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 |          |                   |  |  |
| A/V General Atomics ASI  | Rancho Bernardo, CA | 7                | 1-8-5            | 18    |                 |                       |             |          |                   |  |  |
|                          |                     |                  |                  |       | INITIAL REORDER |                       |             |          |                   |  |  |

REMARKS

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**Exhibit P-21, Production Schedule** Date: February 2002

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. 23** **PREDATOR UAV**

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2002 | BALANCE DUE AS OF 1 OCT 2002 | FISCAL YEAR 2003 |          |          |                    |          |          |          |          |          |          |          |          | FISCAL YEAR 2004 |          |          |                    |          |          |          |          |          |           |     |     | L A T E R |  |  |  |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|------------------|----------|----------|--------------------|----------|----------|----------|----------|----------|-----------|-----|-----|-----------|--|--|--|
|                  |      |           |                            |                              | 2002             |          |          | CALENDAR YEAR 2003 |          |          |          |          |          |          |          |          |                  |          |          | CALENDAR YEAR 2004 |          |          |          |          |          |           |     |     |           |  |  |  |
|                  |      |           |                            |                              | OCT              | NOV      | DEC      | JAN                | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      | OCT              | NOV      | DEC      | JAN                | FEB      | MAR      | APR      | MAY      | JUN      | JUL       | AUG | SEP |           |  |  |  |
| 2001             | USAF | 7         | 4                          | 3                            | 1                | 1        | 1        |                    |          |          |          |          |          |          |          |          |                  |          |          |                    |          |          |          |          |          | 0         |     |     |           |  |  |  |
| 2002             | USAF | 6         | 0                          | 6                            |                  |          |          | 1                  | 1        | 1        |          |          | 1        |          | 1        |          |                  |          |          |                    |          |          |          |          |          | 0         |     |     |           |  |  |  |
| 2003             | USAF | 7         | 0                          | 7                            |                  |          |          |                    |          |          |          |          |          |          |          | 1        | 1                | 1        | 1        | 1                  | 1        |          |          |          |          | 0         |     |     |           |  |  |  |
| 2004             | USAF | 7         | 0                          | 7                            |                  |          |          |                    |          |          |          |          |          |          |          |          |                  |          |          |                    |          |          |          |          |          | 7         |     |     |           |  |  |  |
| 2005             | USAF | 8         | 0                          | 8                            |                  |          |          |                    |          |          |          |          |          |          |          |          |                  |          |          |                    |          |          |          |          |          | 8         |     |     |           |  |  |  |
| 2006             | USAF | 9         | 0                          | 9                            |                  |          |          |                    |          |          |          |          |          |          |          |          |                  |          |          |                    |          |          |          |          |          | 9         |     |     |           |  |  |  |
| 2007             | USAF | 9         | 0                          | 9                            |                  |          |          |                    |          |          |          |          |          |          |          |          |                  |          |          |                    |          |          |          |          |          | 9         |     |     |           |  |  |  |
| <b>TOTAL</b>     |      | <b>53</b> | <b>4</b>                   | <b>49</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>1</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>1</b> | <b>1</b> | <b>1</b> | <b>1</b> | <b>33</b> |     |     |           |  |  |  |

|  |  |  |  |  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--|--|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |  |  |  |  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|--|--|--|--|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

| ITEM/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 |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A/V/General Atomics ASI  |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                          |          |                  |                  |       |            |                       |             |          |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

REMARKS

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| <b>Exhibit P-21, Production Schedule</b>   |      |           |                            |                              |                  |                       |          |                    |     |                   |     |          |          | Date: February 2002                               |     |     |                    |             |     |     |     |          |          |          |          |          |           |     |           |
|--|------|-----------|----------------------------|------------------------------|------------------|-----------------------|----------|--------------------|-----|-------------------|-----|----------|----------|---|-----|-----|--------------------|-------------|-----|-----|-----|----------|----------|----------|----------|----------|-----------|-----|-----------|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23</b> |      |           |                            |                              |                  |                       |          |                    |     |                   |     |          |          | P-1 Line Item Nomenclature<br><b>PREDATOR UAV</b> |     |     |                    |             |     |     |     |          |          |          |          |          |           |     |           |
| 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 |
|  |      |           |                            |                              | 2004             |                       |          | CALENDAR YEAR 2005 |     |                   |     |          |          |   |     |     | CALENDAR YEAR 2006 |             |     |     |     |          |          |          |          |          |           |     |           |
|  |      |           |                            |                              | OCT              | NOV                   | DEC      | JAN                | FEB | MAR               | APR | MAY      | JUN      | JUL   | AUG | SEP | OCT                | NOV         | DEC | JAN | FEB | MAR      | APR      | MAY      | JUN      | JUL      | AUG       | SEP |           |
| 2004   | USAF | 7         | 0                          | 7                            |                  | 1                     | 1        | 1                  |     |                   |     | 1        | 1        | 1   |     |     |                    |             |     |     |     |          |          |          |          |          | 0         |     |           |
| 2005   | USAF | 8         | 0                          | 8                            |                  |                       |          |                    |     |                   |     |          |          |   |     |     |                    |             |     |     |     |          |          |          |          |          | 0         |     |           |
| 2006   | USAF | 9         | 0                          | 9                            |                  |                       |          |                    |     |                   |     |          |          |   |     |     |                    |             |     |     |     |          |          |          |          |          | 9         |     |           |
| 2007   | USAF | 9         | 0                          | 9                            |                  |                       |          |                    |     |                   |     |          |          |   |     |     |                    |             |     |     |     |          |          |          |          |          | 9         |     |           |
| <b>TOTAL</b>   |      | <b>33</b> | <b>0</b>                   | <b>33</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>1</b> | <b>1</b> | <b>1</b> | <b>18</b> |     |           |
|  |      |           |                            |                              | OCT              | NOV                   | DEC      | JAN                | FEB | MAR               | APR | MAY      | JUN      | JUL   | AUG | SEP | OCT                | NOV         | DEC | JAN | FEB | MAR      | APR      | MAY      | JUN      | JUL      | AUG       | SEP |           |
| ITEM/MANUFACTURER'S NAME   |      | LOCATION  | PRODUCTION RATES           |                              |                  | PROCUREMENT LEAD TIME |          |                    |     |                   |     |          |          |   |     |     |                    |             |     |     |     |          |          |          |          |          |           |     |           |
|  |      |           | MIN SUST                   | SHIFT HOURS DAYS             | M A X            | ADMIN LEAD TIME       |          | MFG TIME           |     | TOTAL AFTER 1 OCT |     |          |          |   |     |     |                    |             |     |     |     |          |          |          |          |          |           |     |           |
| A/V/General Atomics ASI  |      |           |                            |                              |                  |                       |          |                    |     |                   |     |          |          |   |     |     | PRIOR 1 OCT        | AFTER 1 OCT |     |     |     |          |          |          |          |          |           |     |           |
|  |      |           |                            |                              |                  |                       |          |                    |     |                   |     |          |          |   |     |     |                    |             |     |     |     |          |          |          |          |          |           |     |           |
|  |      |           |                            |                              |                  |                       |          |                    |     |                   |     |          |          |   |     |     |                    |             |     |     |     |          |          |          |          |          |           |     |           |
| REMARKS  |      |           |                            |                              |                  |                       |          |                    |     |                   |     |          |          |   |     |     |                    |             |     |     |     |          |          |          |          |          |           |     |           |

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**Exhibit P-21, Production Schedule** Date: February 2002

Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number  
**Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23**

P-1 Line Item Nomenclature  
**PREDATOR UAV**

| 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 |  |  |  |
|------------------|------|-----------|----------------------------|------------------------------|------------------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|------------------|----------|----------|--------------------|----------|----------|----------|----------|----------|----------|----------|-----|-----------|--|--|--|
|                  |      |           |                            |                              | 2006             |          |          | CALENDAR YEAR 2007 |          |          |          |          |          |          |          |          |                  |          |          | CALENDAR YEAR 2008 |          |          |          |          |          |          |          |     |           |  |  |  |
|                  |      |           |                            |                              | OCT              | NOV      | DEC      | JAN                | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP      | OCT              | NOV      | DEC      | JAN                | FEB      | MAR      | APR      | MAY      | JUN      | JUL      | AUG      | SEP |           |  |  |  |
| 2006             | USAF | 9         | 0                          | 9                            |                  | 1        | 1        |                    | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1        |                  |          |          |                    |          |          |          |          |          |          | 0        |     |           |  |  |  |
| 2007             | USAF | 9         | 0                          | 9                            |                  |          |          |                    |          |          |          |          |          |          |          |          |                  | 1        | 1        | 1                  | 1        | 1        | 1        | 1        | 1        | 1        | 0        |     |           |  |  |  |
| <b>TOTAL</b>     |      | <b>18</b> | <b>0</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>1</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>1</b> | <b>1</b> | <b>1</b> | <b>0</b> |     |           |  |  |  |

| ITEM/MANUFACTURER'S NAME | LOCATION | PRODUCTION RATES |             |       | REACHED D+  | PROCUREMENT LEAD TIME |  |          |                   |  |
|--------------------------|----------|------------------|-------------|-------|-------------|-----------------------|--|----------|-------------------|--|
|                          |          | MIN SUST         | SHIFT HOURS | M A X |             | ADMIN LEAD TIME       |  | MFG TIME | TOTAL AFTER 1 OCT |  |
|                          |          |                  |             |       | PRIOR 1 OCT | AFTER 1 OCT           |  |          |                   |  |
| A/V/General Atomics ASI  |          |                  |             |       |             |                       |  |          |                   |  |
| INITIAL REORDER          |          |                  |             |       |             |                       |  |          |                   |  |

REMARKS

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23</b> | P-1 Line Item Nomenclature<br><b>PREDATOR UAV</b> |
|--|---|

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |       |       |          |       |       |       |                    |       |       |       |       |       |       | FISCAL YEAR 2002   |       |          |       |       |       |       |                    |       |       |  |  |  |  | L A T E R |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-------|-------|----------|-------|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|--------------------|-------|----------|-------|-------|-------|-------|--------------------|-------|-------|--|--|--|--|-----------|
|                  |      |           |                            |                              | 2000             |       |       |          |       |       |       | CALENDAR YEAR 2001 |       |       |       |       |       |       | CALENDAR YEAR 2002 |       |          |       |       |       |       | CALENDAR YEAR 2002 |       |       |  |  |  |  |           |
|                  |      |           |                            |                              | 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 |  |  |  |  |           |
| 1998             | USAF | 2         | 2                          | 0                            |                  |       |       |          |       |       |       |                    |       |       |       |       |       |       |                    |       |          |       |       |       |       | 0                  |       |       |  |  |  |  |           |
| 1999             | USAF | 1         | 0                          | 1                            |                  |       |       | 1        |       |       |       |                    |       |       |       |       |       |       |                    |       |          |       |       |       |       | 0                  |       |       |  |  |  |  |           |
| 2000             | USAF | 1         | 0                          | 1                            |                  |       |       |          |       |       |       |                    |       |       |       |       |       |       |                    |       | 1        |       |       |       |       | 0                  |       |       |  |  |  |  |           |
| <b>TOTAL</b>     |      | <b>4</b>  | <b>2</b>                   | <b>2</b>                     |                  |       |       | <b>1</b> |       |       |       |                    |       |       |       |       |       |       |                    |       | <b>1</b> |       |       |       |       | <b>0</b>           |       |       |  |  |  |  |           |

| ITEM/MANUFACTURER'S NAME | LOCATION            | PRODUCTION RATES |                  |       | REACHED D+ | PROCUREMENT LEAD TIME |  |          |                   | MFG TIME | TOTAL AFTER 1 OCT | INITIAL REORDER |
|--------------------------|---------------------|------------------|------------------|-------|------------|-----------------------|--|----------|-------------------|----------|-------------------|-----------------|
|                          |                     | MIN SUST         | SHIFT HOURS DAYS | M A X |            | ADMIN LEAD TIME       |  | MFG TIME | TOTAL AFTER 1 OCT |          |                   |                 |
|                          |                     | PRIOR 1 OCT      | AFTER 1 OCT      |       |            |                       |  |          |                   |          |                   |                 |
| GCS/General Atomics ASI  | Rancho Bernardo, CA | 1                | 1-8-5            | 27    |            |                       |  |          |                   |          |                   |                 |

**REMARKS**  
 This schedule represents the procurement of Ground Control Stations (GCS) for Predator.

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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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|  |   |
|--|---|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23</b> | P-1 Line Item Nomenclature<br><b>PREDATOR UAV</b> |
|--|---|

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |     |     |     |     |     |                    |     |     |     |     |     | FISCAL YEAR 2002   |     |     |     |     |     |     |     |     |     |     |     | L A T E R |  |
|------------------|------|-----------|----------------------------|------------------------------|------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--|
|                  |      |           |                            |                              | 2000             |     |     |     |     |     | CALENDAR YEAR 2001 |     |     |     |     |     | CALENDAR YEAR 2002 |     |     |     |     |     |     |     |     |     |     |     |           |  |
|                  |      |           |                            |                              | OCT              | NOV | DEC | JAN | FEB | MAR | APR                | MAY | JUN | JUL | AUG | SEP | OCT                | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |           |  |
| 1999             | USAF | 4         | 4                          | 0                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |  |
| <b>TOTAL</b>     |      | 4         | 4                          | 0                            |                  |     |     |     |     |     |                    |     |     |     |     |     |                    |     |     |     |     |     |     |     |     |     |     |     |           |  |

| ITEM/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 |          |                   |  |  |
| LTD/Raytheon             | Ft. Worth, TX |                  | N/A              |       |            |                       |             |          |                   |  |  |
|                          |               |                  |                  |       | INITIAL    |                       |             |          |                   |  |  |
|                          |               |                  |                  |       | REORDER    |                       |             |          |                   |  |  |

REMARKS



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| <b>Exhibit P-21, Production Schedule</b> | Date: February 2002 |
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|  |   |
|--|---|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23</b> | P-1 Line Item Nomenclature<br><b>PREDATOR UAV</b> |
|--|---|

| PROCUREMENT YEAR | SERV | PROC. QTY | ACCEP. PRIOR TO 1 OCT 2000 | BALANCE DUE AS OF 1 OCT 2000 | FISCAL YEAR 2001 |   |   |   |   |   |                    |   |   |   |   |   | FISCAL YEAR 2002   |   |   |   |   |   |   |   |   |   |   |   | LATE |
|------------------|------|-----------|----------------------------|------------------------------|------------------|---|---|---|---|---|--------------------|---|---|---|---|---|--------------------|---|---|---|---|---|---|---|---|---|---|---|------|
|                  |      |           |                            |                              | 2000             |   |   |   |   |   | CALENDAR YEAR 2001 |   |   |   |   |   | CALENDAR YEAR 2002 |   |   |   |   |   |   |   |   |   |   |   |      |
|                  |      |           |                            |                              | O                | N | D | J | F | M | A                  | M | J | J | A | S | O                  | N | D | J | F | M | A | M | J | J | A | S |      |

|              |      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|--------------|------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| 2002         | USAF | 3 | 0 | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |  |
| <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 |   |  |
|              |      |   |   |   | C | O | E | A | E | A | P | A | U | U | U | E | C | O | E | A | E | A | P | A | U | U | U | E | P |  |
|              |      |   |   |   | T | V | C | N | B | R | R | Y | N | L | G | P | T | V | C | N | B | R | R | Y | N | L | G | P |   |  |

|                            |                     |                  |                  |       |            |                       |             |          |                   |                 |
|----------------------------|---------------------|------------------|------------------|-------|------------|-----------------------|-------------|----------|-------------------|-----------------|
| ITEM/MANUFACTURER'S NAME   | LOCATION            | PRODUCTION RATES |                  |       | REACHED D+ | PROCUREMENT LEAD TIME |             |          |                   | INITIAL REORDER |
| PRED B/General Atomics ASI | Rancho Bernardo, CA | MIN SUST         | SHIFT HOURS DAYS | M A X |            | ADMIN LEAD TIME       |             | MFG TIME | TOTAL AFTER 1 OCT |                 |
|                            |                     | 7                | 1-8-5            | 18    |            | PRIOR 1 OCT           | AFTER 1 OCT |          |                   |                 |

REMARKS

P-1 Shopping List Item No. 23

Production Schedule

Exhibit P-21, page 13 of 15

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|  |                  |              |  |  |                  |               |             |                    |             |             |                       |   |             |             |                         |                             |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
|--|------------------|--------------|--|--|------------------|---------------|-------------|--------------------|-------------|-------------|-----------------------|---|-------------|-------------|-------------------------|-----------------------------|------------------|-------------|-------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------|--|---|--|--|--|--|--|
| <b>Exhibit P-21, Production Schedule</b>   |                  |              |  |  |                  |               |             |                    |             |             |                       | Date: February 2002                               |             |             |                         |                             |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 04, Other Aircraft, Item No. 23</b> |                  |              |  |  |                  |               |             |                    |             |             |                       | P-1 Line Item Nomenclature<br><b>PREDATOR UAV</b> |             |             |                         |                             |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
| PROCUREMENT YEAR   | S<br>E<br>R<br>V | PROC.<br>QTY | ACCEP.<br>PRIOR<br>TO<br>1 OCT<br>2002 | BALANCE<br>DUE<br>AS OF<br>1 OCT<br>2002 | FISCAL YEAR 2003 |               |             |                    |             |             |                       |   |             |             |                         |                             | FISCAL YEAR 2004 |             |             |                    |             |             |             |             |             |             |             |             | L<br>A<br>T<br>E<br>R |  |   |  |  |  |  |  |
|  |                  |              |  |  | 2002             |               |             | CALENDAR YEAR 2003 |             |             |                       |   |             |             |                         |                             |                  |             |             | CALENDAR YEAR 2004 |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
|  |                  |              |  |  | O<br>C<br>T      | N<br>O<br>V   | D<br>E<br>C | J<br>A<br>N        | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R           | M<br>A<br>Y                                       | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G             | S<br>E<br>P                 | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N        | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |                       |  |   |  |  |  |  |  |
| 2002   | USAF             | 3            | 0                                      | 3  |                  |               |             |                    |             |             |                       |   |             |             |                         |                             | 1                |             |             | 1                  |             |             |             |             |             |             |             |             |                       |  | 0 |  |  |  |  |  |
| <b>TOTAL</b>   |                  |              |  |  |                  |               |             |                    |             |             |                       |   |             |             |                         |                             |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
|  |                  |              |  |  | O<br>C<br>T      | N<br>O<br>V   | D<br>E<br>C | J<br>A<br>N        | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R           | M<br>A<br>Y                                       | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G             | S<br>E<br>P                 | O<br>C<br>T      | N<br>O<br>V | D<br>E<br>C | J<br>A<br>N        | F<br>E<br>B | M<br>A<br>R | A<br>P<br>R | M<br>A<br>Y | J<br>U<br>N | J<br>U<br>L | A<br>U<br>G | S<br>E<br>P |                       |  |   |  |  |  |  |  |
|  |                  |              | PRODUCTION RATES                       |  |                  |               |             |                    |             |             | PROCUREMENT LEAD TIME |   |             |             |                         |                             |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
|  |                  |              | MIN<br>SUST                            | SHIFT<br>HOURS<br>DAYS                   | M<br>A<br>X      | REACHED<br>D+ |             |                    |             |             | ADMIN<br>LEAD TIME    |   | MFG<br>TIME |             | TOTAL<br>AFTER<br>1 OCT |                             |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
| ITEM/MANUFACTURER'S NAME   |                  |              | LOCATION                               |  |                  |               |             |                    |             |             |                       |   |             |             |                         |                             |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
| PRED B/General Atomics ASI   |                  |              |  |  |                  |               |             |                    |             |             |                       |   |             |             |                         |                             |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
|  |                  |              |  |  |                  |               |             |                    |             |             |                       |   |             |             |                         |                             |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
|  |                  |              |  |  |                  |               |             |                    |             |             |                       |   |             |             |                         |                             |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
|  |                  |              |  |  |                  |               |             |                    |             |             | INITIAL<br>REORDER    |   |             |             |                         |                             |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
| REMARKS  |                  |              |  |  |                  |               |             |                    |             |             |                       |   |             |             |                         |                             |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
|  |                  |              |  |  |                  |               |             |                    |             |             |                       |   |             |             |                         |                             |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
| P-1 Shopping List Item No. 23  |                  |              |  |  |                  |               |             |                    |             |             |                       |   |             |             |                         | Production Schedule         |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |
|  |                  |              |  |  |                  |               |             |                    |             |             |                       |   |             |             |                         | Exhibit P-21, page 14 of 15 |                  |             |             |                    |             |             |             |             |             |             |             |             |                       |  |   |  |  |  |  |  |

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**Exhibit P-21, Production Schedule** Date: February 2002

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. 23** **PREDATOR UAV**

| 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   |                 |  |  |  |
|----------------------------|------------------|-----------|----------------------------|------------------------------|---|---|---|---|--------------------|---|---|------------|----------|------------------|-------|--|--------------------|---|---|-----------------------|---|---|---|-----------------|---|----------|-------------------|-------------|-------------|-----------------|--|--|--|
|                            |                  |           |                            |                              | 2004  |   |   |   | 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               |   |          |                   |             |             |                 |  |  |  |
| <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           |                 |  |  |  |
|                            |                  |           |                            |                              | 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           |                 |  |  |  |
|                            |                  |           |                            |                              | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3">PRODUCTION RATES</th> <th rowspan="2">REACHED D+</th> </tr> <tr> <th>MIN SUST</th> <th>SHIFT HOURS DAYS</th> <th>M A X</th> </tr> </table> |   |   |   | PRODUCTION RATES   |   |   | REACHED D+ | MIN SUST | SHIFT HOURS DAYS | M A X | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">PROCUREMENT LEAD TIME</th> </tr> <tr> <td colspan="2">ADMIN LEAD TIME</td> <td rowspan="2">MFG TIME</td> <td rowspan="2">TOTAL AFTER 1 OCT</td> </tr> <tr> <td>PRIOR 1 OCT</td> <td>AFTER 1 OCT</td> </tr> <tr> <td colspan="2">INITIAL REORDER</td> <td></td> <td></td> </tr> </table> |                    |   |   | PROCUREMENT LEAD TIME |   |   |   | ADMIN LEAD TIME |   | MFG TIME | TOTAL AFTER 1 OCT | PRIOR 1 OCT | AFTER 1 OCT | INITIAL REORDER |  |  |  |
| PRODUCTION RATES           |                  |           | REACHED D+                 |                              |   |   |   |   |                    |   |   |            |          |                  |       |  |                    |   |   |                       |   |   |   |                 |   |          |                   |             |             |                 |  |  |  |
| MIN SUST                   | SHIFT HOURS DAYS | M A X     |                            |                              |   |   |   |   |                    |   |   |            |          |                  |       |  |                    |   |   |                       |   |   |   |                 |   |          |                   |             |             |                 |  |  |  |
| PROCUREMENT LEAD TIME      |                  |           |                            |                              |   |   |   |   |                    |   |   |            |          |                  |       |  |                    |   |   |                       |   |   |   |                 |   |          |                   |             |             |                 |  |  |  |
| ADMIN LEAD TIME            |                  | MFG TIME  | TOTAL AFTER 1 OCT          |                              |   |   |   |   |                    |   |   |            |          |                  |       |  |                    |   |   |                       |   |   |   |                 |   |          |                   |             |             |                 |  |  |  |
| PRIOR 1 OCT                | AFTER 1 OCT      |           |                            |                              |   |   |   |   |                    |   |   |            |          |                  |       |  |                    |   |   |                       |   |   |   |                 |   |          |                   |             |             |                 |  |  |  |
| INITIAL REORDER            |                  |           |                            |                              |   |   |   |   |                    |   |   |            |          |                  |       |  |                    |   |   |                       |   |   |   |                 |   |          |                   |             |             |                 |  |  |  |
| ITEM/MANUFACTURER'S NAME   |                  |           | LOCATION                   |                              |   |   |   |   |                    |   |   |            |          |                  |       |  |                    |   |   |                       |   |   |   |                 |   |          |                   |             |             |                 |  |  |  |
| PRED B/General Atomics ASI |                  |           |                            |                              |   |   |   |   |                    |   |   |            |          |                  |       |  |                    |   |   |                       |   |   |   |                 |   |          |                   |             |             |                 |  |  |  |
|                            |                  |           |                            |                              |   |   |   |   |                    |   |   |            |          |                  |       |  |                    |   |   |                       |   |   |   |                 |   |          |                   |             |             |                 |  |  |  |
|                            |                  |           |                            |                              |   |   |   |   |                    |   |   |            |          |                  |       |  |                    |   |   |                       |   |   |   |                 |   |          |                   |             |             |                 |  |  |  |

REMARKS

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**FY 2003 BUDGET ESTIMATES**

**BUDGET ACTIVITY 06 – AIRCRAFT SPARES AND REPAIR PARTS**

**FEBRUARY 2002**

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| <b>Exhibit P-40, Budget Item Justification</b>   | Date: February 2002                     |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 06, Aircraft Spares and Repair Parts, Item No. 59</b> | <b>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 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 |  | To Comp    | Total |
| Proc Qty                          | A       |                                 |         |         |         |         |         |         |         |  |            |       |
| Total Proc Cost (\$ M)            |         |                                 | 344.017 | 295.139 | 275.982 | 305.931 | 292.219 | 244.288 | 196.802 |  | Continuing | TBD   |

**Description**  
 Program Description: Aircraft Initial Spares are required to fill the initial pipeline or inventory for all new aircraft systems, including modifications, support equipment, and other production categories. Initial spares include peculiar reparable and consumable components, assemblies, and subassemblies that must be available for issue at all levels of supply in time to support newly fielded end items.

Initial spares are funded in the two program segments described below.

Working Capital Fund (WCF) Spares. Since FY94 the primary means to purchase initial spares is using obligation authority in the WCF. When the spares are delivered this central procurement account will reimburse the WCF. Types of spares in this program segment are Readiness Spares Packages, New Acquisition Spares, Modification Spares, Support Equipment, Other Production, and Consumables.

Exempt Spares. This program segment finances spares that are not purchased through the WCF. The budget authority is a direct cite on the contract. Types of spares in this program segment are Whole Spare Engines, Whole Spare Quick Engine Change Kits, Contractor Logistics Support, Simulators/Trainers, Classified Equipment, and Munitions.

**FY 2003 Program Justification**  
 The major portion of the funds are in F-16 Mods, Manned Reconnaissance, Readiness Spares Packages for the KC-135, and JPATS.

Initial Spares for several programs (e.g., C-130J, C-17, and F-22) are not included in BP16. The spares for those programs are purchased under the Reformed Supply Support Program using BP10/11

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
|---|---------------------|

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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 06, Aircraft Spares and Repair Parts, Item No. 59</b> | <b>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 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|   |            | 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          |                                   |           |            |         |           |            |         |           |            |
| <b>FLYAWAY COST SUBTOTAL</b>                      | A          |                                   |           |            |         |           |            |         |           |            |
| 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>INITIAL SPARES (Budget Program 16)</b>         | A          |                                   |           | 344.017    |         |           | 295.139    |         |           | 275.982    |
| <b>TOTAL PROGRAM</b>                              |            |                                   |           | 344.017    |         |           | 295.139    |         |           | 275.982    |

**Comments**



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| Exhibit P-18A, Initial Spare Funding Summary   |  |         | Date: February 2002              |         |  |
|--|--|---------|----------------------------------|---------|--|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number  |  |         |                                  |         |  |
| Aircraft Procurement, Air Force, Budget Activity 06, Aircraft Spares and Repair Parts, Item No. 59 |  |         | Aircraft Spares and Repair Parts |         |  |
| Initial Spare Funding Summary  |  |         |                                  |         |  |
| P-1 LINE   | END ITEM NOMENCLATURE                        | FY 2001 | FY 2002                          | FY 2003 |  |
| 1  | B-52 Squadron                                | 1.950   | 2.276                            | 0.810   |  |
| 2  | B-1 Squadrons                                | 12.759  | 15.363                           | 7.815   |  |
| 3  | B-2 Squadrons                                | 37.298  | 58.713                           | 8.533   |  |
| 4  | ICBM Helicopter Support                      | 0.000   | 0.000                            | 0.000   |  |
| 5  | F-15A/B/C/D Squadrons                        | 21.197  | 12.734                           | 0.000   |  |
| 6  | A-10 Squadrons                               | 0.500   | 0.726                            | 0.439   |  |
| 7  | F-16 Squadrons                               | 74.193  | 24.892                           | 64.612  |  |
| 8  | F-15 E Squadrons                             | 9.594   | 1.212                            | 13.448  |  |
| 9  | Combat Rescue and Recovery                   | 1.000   | 1.109                            | 2.569   |  |
| 10   | Precision Attack Systems (LANTIRN)           | 1.193   | 0.000                            | 0.000   |  |
| 11   | COMPASS CALL                                 | 8.072   | 12.346                           | 13.295  |  |
| 12   | Airborne Warning and Control Systems (AWACS) | 21.108  | 28.344                           | 15.841  |  |
| 13   | Airborne Battlefield Command Control Center  | 0.000   | 0.000                            | 0.000   |  |
| 14   | Advanced Communications Systems              | 0.852   | 0.000                            | 0.000   |  |
| 15   | Combat Training Range Equipment              | 1.256   | 1.379                            | 1.385   |  |
| 16   | JSECST                                       | 0.717   | 0.151                            | 0.810   |  |
| 17   | JOINT STARS                                  | 32.212  | 26.364                           | 1.810   |  |
| 18   | Combat Development                           | 0.100   | 0.125                            | 0.123   |  |
| 19   | E-4B National Airborne Operations Center     | 1.160   | 1.122                            | 0.838   |  |
| 20   | MILSATCOM Terminals                          | 7.029   | 0.000                            | 2.112   |  |
| 21   | Aerial Targets                               | 0.610   | 0.101                            | 0.820   |  |
| 22   | Manned Reconnaissance System                 | 56.240  | 53.155                           | 49.867  |  |
| 23   | C-130 Airlift Squadrons                      | 1.551   | 9.329                            | 1.923   |  |
| 24   | C-141 Airlift Squadrons                      | 1.969   | 0.000                            | 0.000   |  |
| 25   | C-5 Airlift Squadrons                        | 4.920   | 1.730                            | 1.665   |  |
| 26   | C-17 Aircraft                                | 3.138   | 0.000                            | 0.000   |  |
| 27   | C-130J Program                               | 0.000   | 0.000                            | 0.000   |  |
| 28   | Airlift Mission Activities                   | 3.441   | 4.382                            | 1.123   |  |
| 29   | KC-135S                                      | 24.073  | 27.488                           | 22.994  |  |
| 30   | KC-10S                                       | 2.344   | 0.548                            | 0.052   |  |
| 31   | Operational Support Airlift                  | 0.500   | 0.196                            | 0.377   |  |
| 32   | CV-22  | 5.548   | 0.000                            | 11.323  |  |
| 33   | Training                                     | 0.889   | 0.404                            | 0.000   |  |
| 34   | Podded Recon Systems                         | 0.000   | 0.474                            | 0.468   |  |

P-1 Shopping List Item No. 59

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 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 06, Aircraft Spares and Repair Parts, Item No. 59</b> | <b>Aircraft Spares and Repair Parts</b> |
|--|---|

| P-1 LINE | END ITEM NOMENCLATURE                        | FY 2001        | FY 2002        | FY 2003        |
|----------|--|----------------|----------------|----------------|
| 35       | GPS  | 0.005          | 2.802          | 0.000          |
| 36       | Depot Maintenance (NON-IF)                   | 3.949          | 0.104          | 0.000          |
| 37       | Undergraduate Pilot Training                 | 2.601          | 5.763          | 7.106          |
| 38       | Undergraduate Navigator / NFO TNG            | 0.049          | 0.049          | 0.049          |
| 39       | EURO-NATO Joint Jet Pilot Training           | 0.000          | 0.018          | 0.018          |
| 40       | Precision Attack System Procurement (PRCATK) | 0.000          | 1.225          | 3.327          |
| 42       | CLOVER                                       | 0.000          | 0.011          | 0.000          |
| 43       | Endurance Unmanned Aerial Vehicles           | 0.000          | 0.504          | 0.497          |
| 44       | JPATS  | 0.000          | 0.000          | 39.933         |
|          | <b>TOTAL INITIAL SPARES</b>                  | <b>344.017</b> | <b>295.139</b> | <b>275.982</b> |



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| <b>Exhibit P-18A, Initial Spare Funding</b>  | Date: February 2002                     |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 06, Aircraft Spares and Repair Parts,<br/>Item No. 59</b> | <b>Aircraft Spares and Repair Parts</b> |

| <b>Initial Spare Funding</b> |                              |                |                |                |
|------------------------------|------------------------------|----------------|----------------|----------------|
| <u>P-1 LINE</u>              | <u>END ITEM NOMENCLATURE</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> |
|                              | WCF SPARES                   | 158.981        | 124.389        | 169.858        |
|                              | EXEMPT SPARES                | 185.036        | 170.750        | 106.124        |
|                              | TOTAL INITIAL SPARES         | 344.017        | 295.139        | 275.982        |

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**FY 2003 BUDGET ESTIMATES**

**BUDGET ACTIVITY 07 – AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES**

**FEBRUARY 2002**

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**FY 2003 BUDGET ESTIMATES**

**BP 12 – APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)**

**FEBRUARY 2002**

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| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>  |                          |               |                          |   |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |                          |               |                          | <b>P-1 NOMENCLATURE:</b><br>AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (OVERVIEW) |               |                            |               |               |
|  |                          | <b>FY2001</b> | <b>FY2002</b>            | <b>FY2003</b>   | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>  |                          |               |                          |   |               |                            |               |               |
| <b>COST</b><br>(in Thousands)  |                          | \$167,275     | \$207,164                | \$180,943   | \$223,052     | \$226,232                  | \$208,011     | \$198,481     |
| <p><b>Description:</b></p> <p>1. This program provides funding for the procurement of replacement organizational and intermediate 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 35 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, electronic test sets, maintenance platforms, and automatic test equipment. These items support multiple Air Force weapons systems.</p> <p>2. Items requested in FY03 are identified on the attached P-40A and are representative of items to be procured. Details on FY03 procurements over \$5 Million dollars are provided in the following documents. 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><br>60 |               | <b>PAGE NO:</b><br>7 - 1 |   |               | Page 1 of 1                |               |               |

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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)      |            |                   |      |  |          |                   | DATE: FEBRUARY 2002 |             |          |  |
|--|------------|-------------------|------|--|----------|-------------------|---------------------|-------------|----------|--|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |            |                   |      | P-1 NOMENCLATURE:<br>AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (OVERVIEW) |          |                   |                     |             |          |  |
| PROCUREMENT ITEMS  | ID<br>CODE |                   |      | FY2001   |          | FY2002            |                     | FY2003      |          |  |
|  |            | QTY.              | COST | QTY.   | COST     | QTY.              | COST                | QTY.        | COST     |  |
| 1. AUTOMATIC JET ENGINE TEST SYSTEM (1)                              | A          |                   |      |  | \$609    |                   |                     |             |          |  |
| 2. 105 BENCHTOP RECONFIGURABLE AUTOMATIC TESTER (1)                  | A          |                   |      |  |          | 5                 | \$5,784             |             |          |  |
| 3. ANALOG DIGITAL TEST SET II  | A          |                   |      |  |          | 9                 | \$6,485             |             |          |  |
| 4. SELF GENERATING NITROGEN SERVICING CART                           | A          |                   |      | 360  | \$12,098 | 361               | \$12,526            | 361         | \$13,208 |  |
| 5. LINKLESS AMMUNITION LOADER  | A          |                   |      | 82   | \$7,900  | 53                | \$4,933             | 119         | \$11,687 |  |
| 6. 305 RADIO TEST STATION  | A          |                   |      | 2  | \$7,238  | 3                 | \$4,653             | 3           | \$10,830 |  |
| 7. COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT                  | A          |                   |      | 236  | \$4,963  | 135               | \$7,818             | 134         | \$10,665 |  |
| 8. LIQUID COOLANT CART   | A          |                   |      |  |          | 2                 | \$1,000             | 25          | \$7,164  |  |
| 9. NEW GENERATION HEATER   | A          |                   |      | 200  | \$2,202  | 847               | \$8,772             | 847         | \$9,217  |  |
| 10. HYDRAULIC COMPONENT TEST STAND                                   | A          |                   |      | 2  | \$1,831  |                   |                     | 40          | \$8,410  |  |
| 11. ALUMINUM RAIL SETS   | A          |                   |      | 3  | \$441    | 60                | \$3,900             | 120         | \$7,811  |  |
| 12. ROOF-MOUNTED AIR CONDITIONER MODULE                              | A          |                   |      |  |          | 3                 | \$1,500             | 240         | \$7,702  |  |
| 13. SINGLE CONTAINER ADVANCED RADAR SIMULATOR                        | A          |                   |      | 63   | \$4,564  | 97                | \$7,163             | 79          | \$7,220  |  |
| 14. 405 TRANSPORTABLE RADIO TEST STATION                             | A          |                   |      |  | \$7,114  |                   | \$7,200             |             | \$7,100  |  |
| 15. TRUCK MOUNTED DEICER   | A          |                   |      | 38   | \$11,581 | 6                 | \$1,687             | 26          | \$6,906  |  |
| 16. JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER                   | A          |                   |      | 56   | \$17,127 | 65                | \$24,072            | 60          | \$5,400  |  |
|  |            |                   |      |  |          |                   |                     |             |          |  |
|  |            | P-1 ITEM NO<br>60 |      |  |          | PAGE NO:<br>7 - 2 |                     | Page 1 of 2 |          |  |

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| <b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>                             |            |      |                          |   |           |             | <b>DATE:</b> FEBRUARY 2002 |        |           |
|--|------------|------|--------------------------|---|-----------|-------------|----------------------------|--------|-----------|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)                        |            |      |                          | <b>P-1 NOMENCLATURE:</b><br>AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (OVERVIEW) |           |             |                            |        |           |
| PROCUREMENT ITEMS  | ID<br>CODE |      |                          | FY2001  |           | FY2002      |                            | FY2003 |           |
|  |            | QTY. | COST                     | QTY.  | COST      | QTY.        | COST                       | QTY.   | COST      |
| 17. MAINTENANCE PLATFORM, HIGH REACH   | A          |      |                          | 9   | \$5,246   | 8           | \$4,796                    | 8      | \$5,036   |
| 18. ELECTRONIC SYSTEM TEST STATION   | A          |      |                          |   | \$15,212  |             | \$11,525                   |        | \$5,000   |
| 19. RACKMOUNT IMPROVED AVIONICS INTERMEDIATE SHOP TEST STATION                                     | A          |      |                          |   |           |             |                            | 2      | \$10,078  |
| 20. ADVANCED DIGITAL TEST STATION  | A          |      |                          |   |           |             |                            | 4      | \$16,908  |
| 21. ITEMS LESS THAN 5 MILLION DOLLARS  | A          |      |                          |   | \$69,149  |             | \$93,350                   |        | \$30,601  |
| <b>Totals:</b>   |            |      |                          |   | \$167,275 |             | \$207,164                  |        | \$180,943 |
| <b>Remarks:</b>  |            |      |                          |   |           |             |                            |        |           |
| 1. FY03 requirements for Items 1-3 appear on attached Items Less Than \$5 Million budget document. |            |      |                          |   |           |             |                            |        |           |
| <b>P-1 ITEM NO</b><br>60   |            |      | <b>PAGE NO:</b><br>7 - 3 |   |           | Page 2 of 2 |                            |        |           |

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|---|--------------------------|---------------|--------------------------|---|---------------|----------------------------|---------------|---------------|
| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>   |                          |               |                          |   |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)   |                          |               |                          | <b>P-1 NOMENCLATURE:</b><br>SELF GENERATING NITROGEN SERVICING CART |               |                            |               |               |
|   |                          | <b>FY2001</b> | <b>FY2002</b>            | <b>FY2003</b>   | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>   |                          |               |                          |   |               |                            |               |               |
| <b>COST</b><br>(in Thousands)   |                          | \$12,098      | \$12,526                 | \$13,208  | \$9,738       | \$203                      | \$413         | \$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 3,000 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 and will replace three unreliable and obsolete systems: (1) the liquid nitrogen servicing cart, (2) the six and eight bottle nitrogen servicing carts, and (3) an air compressor. The SGNSC 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. The SGNSC will reduce manhours required for nitrogen servicing and decrease the deployment footprint for aircraft squadrons, critical to wartime and peacetime missions. 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 will 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. Non-availability of the required quantities of liquid nitrogen in the local area of deployment forces the Air Force to ship and store 400-gallon liquid nitrogen storage tanks. Utilizing the SGNSC will reduce man-hours required for nitrogen servicing and decrease the deployment footprint for aircraft squadrons, which has become critical to current peacetime and wartime missions.</p> <p>3. Items requested in FY03 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><br>60 |               | <b>PAGE NO:</b><br>7 - 4 |   |               | Page 1 of 1                |               |               |

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| <b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)</b>   |               |                          |              |               |        |                          | <b>DATE:</b> FEBRUARY 2002  |        |              |               |             |              |               |
|---|---------------|--------------------------|--------------|---------------|--------|--------------------------|---|--------|--------------|---------------|-------------|--------------|---------------|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)   |               |                          |              |               |        |                          | <b>P-1 NOMENCLATURE:</b><br>SELF GENERATING NITROGEN SERVICING CART |        |              |               |             |              |               |
| WEAPON SYSTEM<br>COST ELEMENTS  | IDENT<br>CODE |                          |              |               | FY2001 |                          |   | FY2002 |              |               | FY2003      |              |               |
|   |               | QTY                      | UNIT<br>COST | TOTAL<br>COST | QTY    | UNIT<br>COST             | TOTAL<br>COST   | QTY    | UNIT<br>COST | TOTAL<br>COST | QTY         | UNIT<br>COST | TOTAL<br>COST |
|   |               |                          |              |               |        |                          | {12,098}  |        |              | {12,526}      |             |              | {13,208}      |
| SGNSC   | A             |                          |              |               | 360    | 33,600                   | 12,096  | 361    | 34,699       | 12,526        | 361         | 36,587       | 13,208        |
| ONE TIME ENGINEERING FEE(1)   |               |                          |              |               |        |                          | 2   |        |              |               |             |              |               |
| <b>TOTALS:</b>  |               |                          |              |               |        |                          | 12,098  |        |              | 12,526        |             |              | 13,208        |
| <b>REMARKS:</b><br>(1) One-time expense for a product safety improvement (government requested) to add a belt cover to the SGNSC.<br>(2) Refurbishment of two First Articles to be delivered as production units. |               |                          |              |               |        |                          |   |        |              |               |             |              |               |
|   |               | <b>P-1 ITEM NO</b><br>60 |              |               |        | <b>PAGE NO:</b><br>7 - 5 |   |        |              |               | Page 1 of 1 |              |               |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)   |      |                          |                 |  |   |              | DATE: FEBRUARY 2002   |                       |                       |  |
|---|------|--------------------------|-----------------|--|---|--------------|-----------------------|-----------------------|-----------------------|--|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |      |                          |                 | P-1 NOMENCLATURE:<br>SELF GENERATING NITROGEN SERVICING CART |   |              |                       |                       |                       |  |
| ITEM /<br>FISCAL YEAR   | QTY. | UNIT<br>COST             | LOCATION OF PCO | CONTRACT<br>METHOD & TYPE                                    | CONTRACTOR<br>AND LOCATION                        | AWD.<br>DATE | DATE<br>FIRST<br>DEL. | SPECS<br>AVAIL<br>NOW | DATE<br>REV.<br>AVAIL |  |
| SGNSC   |      |                          |                 |  |   |              |                       |                       |                       |  |
| FY01 (1)  | 360  | 33,600                   | AFMC/WR-ALC     | OPT/FFP  | PACIFIC CONSOLIDATED<br>INDUSTRIES, SANTA ANA, CA | JAN 01       | MAR 01                |                       |                       |  |
| FY02 (1)  | 361  | 34,699                   | AFMC/WR-ALC     | OPT/FFP  | PACIFIC CONSOLIDATED<br>INDUSTRIES, SANTA ANA, CA | FEB 02       | MAY 02                | Y                     |                       |  |
| FY03 (1)  | 361  | 36,587                   | AFMC/WR-ALC     | OPT/FFP  | PACIFIC CONSOLIDATED<br>INDUSTRIES, SANTA ANA, CA | DEC 02       | MAR 03                | Y                     |                       |  |
| <b>REMARKS:</b><br>(1) FY01, FY02, and FY03 are options to a FY99 Firm Fixed Price Contract, awarded Oct 1998 which is a two year requirement contract with three option years. |      |                          |                 |  |   |              |                       |                       |                       |  |
|   |      | <b>P-1 ITEM NO</b><br>60 |                 |  | <b>PAGE NO:</b><br>7 - 6                          |              |                       | Page 1 of 1           |                       |  |

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|---|--|--------------------------|---------------|---|---------------|---------------|----------------------------|---------------|
| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>   |  |                          |               |   |               |               | <b>DATE:</b> FEBRUARY 2002 |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)   |  |                          |               | <b>P-1 NOMENCLATURE:</b><br>LINKLESS AMMUNITION LOADING SYSTEM (LALS) |               |               |                            |               |
|   |  | <b>FY2001</b>            | <b>FY2002</b> | <b>FY2003</b>   | <b>FY2004</b> | <b>FY2005</b> | <b>FY2006</b>              | <b>FY2007</b> |
| <b>QUANTITY</b>   |  |                          |               |   |               |               |                            |               |
| <b>COST</b><br>(in Thousands)   |  | \$7,900                  | \$4,933       | \$11,687  | \$393         | \$1,728       | \$0                        | \$0           |
| <p><b>Description:</b></p> <p>1. The Linkless Ammunition Loading System (LALS) is a four-wheeled mechanical 20mm ammunition storage, transportation and loading system. It uses a hand crank or pneumatic drive tool to cycle ammunition through the system to load fighter aircraft. While performing this loading function, it simultaneously downloads cleared rounds or spent cases from the aircraft. The ammunition loader interfaces with the M161A1 gun systems and is compatible with all M-series and PGU series 20mm ammunition. The LALS supports the following Air Force aircraft: F-15 and F-16.</p> <p>2. Failure to procure the LALS may result in delays loading 20mm ammunition onto fighter aircraft resulting in extensive down time between sorties. Lack of this 20mm ammunition loading system could also result in serious degradation to the tactical mission during deployments in threat areas.</p> <p>3. Items requested in FY03 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><br>60  |  | <b>PAGE NO:</b><br>7 - 7 |               |   | Page 1 of 1   |               |                            |               |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)                           |               |                   |              |               |  |                   |               |        |              | DATE: FEBRUARY 2002 |        |              |               |
|--|---------------|-------------------|--------------|---------------|--|-------------------|---------------|--------|--------------|---------------------|--------|--------------|---------------|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |               |                   |              |               | P-1 NOMENCLATURE:<br>LINKLESS AMMUNITION LOADING SYSTEM (LALS) |                   |               |        |              |                     |        |              |               |
| WEAPON SYSTEM<br>COST ELEMENTS                                       | IDENT<br>CODE |                   |              |               | FY2001   |                   |               | FY2002 |              |                     | FY2003 |              |               |
|  |               | QTY               | UNIT<br>COST | TOTAL<br>COST | QTY  | UNIT<br>COST      | TOTAL<br>COST | QTY    | UNIT<br>COST | TOTAL<br>COST       | QTY    | UNIT<br>COST | TOTAL<br>COST |
|  |               |                   |              |               |  |                   | {7,900}       |        |              | {4,933}             |        |              | {11,687}      |
| LALS   | A             |                   |              |               | 82   | 93,084            | 7,633         | 53     | 93,084       | 4,933               | 119    | 98,208       | 11,687        |
| TECHNICAL DATA   |               |                   |              |               |  |                   | 267           |        |              |                     |        |              |               |
| <b>TOTALS:</b>   |               |                   |              |               |  |                   | 7,900         |        |              | 4,933               |        |              | 11,687        |
| REMARKS:   |               |                   |              |               |  |                   |               |        |              |                     |        |              |               |
|  |               | P-1 ITEM NO<br>60 |              |               |  | PAGE NO:<br>7 - 8 |               |        |              | Page 1 of 1         |        |              |               |

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| <b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>                  |      |                          |                 |   |                                    |                          | <b>DATE:</b> FEBRUARY 2002 |                       |                       |             |
|---|------|--------------------------|-----------------|---|------------------------------------|--------------------------|----------------------------|-----------------------|-----------------------|-------------|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |      |                          |                 | <b>P-1 NOMENCLATURE:</b><br>LINKLESS AMMUNITION LOADING SYSTEM (LALS) |                                    |                          |                            |                       |                       |             |
| ITEM /<br>FISCAL YEAR   | QTY. | UNIT<br>COST             | LOCATION OF PCO | CONTRACT<br>METHOD & TYPE   | CONTRACTOR<br>AND LOCATION         | AWD.<br>DATE             | DATE<br>FIRST<br>DEL.      | SPECS<br>AVAIL<br>NOW | DATE<br>REV.<br>AVAIL |             |
| LALS  |      |                          |                 |   |                                    |                          |                            |                       |                       |             |
| FY01  | 82   | 93,084                   | AFMC/WR-ALC     | C/FFP   | HYDRAULICS INTL,<br>CHATSWORTH, CA | APR 01                   | MAR 02                     |                       |                       |             |
| FY02  | 53   | 93,084                   | AFMC/WR-ALC     | C/FFP W/OPT   | HYDRAULICS INTL,<br>CHATSWORTH, CA | FEB 02                   | OCT 02                     | Y                     |                       |             |
| FY03  | 119  | 98,208                   | AFMC/WR-ALC     | C/FFP W/OPT   | HYDRAULICS INTL,<br>CHATSWORTH, CA | DEC 02                   | FEB 03                     | Y                     |                       |             |
| <b>REMARKS:</b>   |      |                          |                 |   |                                    |                          |                            |                       |                       |             |
|   |      | <b>P-1 ITEM NO</b><br>60 |                 |   |                                    | <b>PAGE NO:</b><br>7 - 9 |                            |                       |                       | Page 1 of 1 |

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|---|--------------------------|---------------|---------------------------|--|---------------|----------------------------|---------------|---------------|
| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>   |                          |               |                           |  |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)   |                          |               |                           | <b>P-1 NOMENCLATURE:</b><br>305 RADIO TEST STATION |               |                            |               |               |
|   |                          | <b>FY2001</b> | <b>FY2002</b>             | <b>FY2003</b>                                      | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>   |                          |               |                           |  |               |                            |               |               |
| <b>COST</b><br>(in Thousands)   |                          | \$7,238       | \$4,653                   | \$10,830   | \$7,291       | \$1,000                    | \$0           | \$0           |
| <p><b>Description:</b></p> <p>1. The 305 Radar Test Station, also known as the Radio Frequency Benchtop Reconfigurable Automatic Tester (RF BRAT) is a flexible test system built with commercial off the shelf equipment used to support E-3B/C aircraft. It can also be used as general purpose test equipment. The test equipment consists of a systems controller, controller operational software, power source, RF, analog/digital modules and test program sets (TPS). This acquisition will provide a standard commercial test system for a minimum of 78 E-3 Airborne Warning and Control System (AWACS) Line Replaceable Units (LRU)/Shop Replaceable Units (SRU). It will replace at least 14 different obsolete testers, and allow interchangeability of tester hardware between shops, thus reducing work stoppages and eliminating the proliferation of support equipment, greatly reducing logistics support equipment 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 will greatly impair the 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.</p> <p>3. Items requested in FY03 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><br>60 |               | <b>PAGE NO:</b><br>7 - 10 |  | Page 1 of 1   |                            |               |               |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)                           |               |                          |              |               |   |                           |               |        |              | DATE: FEBRUARY 2002 |        |              |               |
|--|---------------|--------------------------|--------------|---------------|---|---------------------------|---------------|--------|--------------|---------------------|--------|--------------|---------------|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |               |                          |              |               | P-1 NOMENCLATURE:<br>305 RADIO TEST STATION |                           |               |        |              |                     |        |              |               |
| WEAPON SYSTEM<br>COST ELEMENTS                                       | IDENT<br>CODE |                          |              |               | FY2001                                      |                           |               | FY2002 |              |                     | FY2003 |              |               |
|  |               | QTY                      | UNIT<br>COST | TOTAL<br>COST | QTY   | UNIT<br>COST              | TOTAL<br>COST | QTY    | UNIT<br>COST | TOTAL<br>COST       | QTY    | UNIT<br>COST | TOTAL<br>COST |
|  |               |                          |              |               |   |                           | {7,238}       |        |              | {4,653}             |        |              | {10,830}      |
| 305 RADIO TEST STATION   | A             |                          |              |               | 2   | 1,110,860                 | 2,223         | 1      | 1,110,860    | 1,111               | 1      | 1,110,860    | 1,111         |
| RF305BJ ENHANCED MODULATOR   |               |                          |              |               | 1   | 776,500                   | 777           | 2      | 776,500      | 1,553               | 2      | 776,500      | 1,553         |
| TEST PROGRAM SETS (TPS)  |               |                          |              |               | 6   | 350,000                   | 2,100         |        |              |                     | 17     | 350,000      | 5,950         |
| INDEPENDENT VALIDATION &<br>VERIFICATION                             |               |                          |              |               |   |                           | 644           |        |              | 519                 |        |              | 629           |
| INTERIM CONTRACTOR SUPPORT   |               |                          |              |               |   |                           | 750           |        |              | 750                 |        |              | 800           |
| DATA   |               |                          |              |               |   |                           | 744           |        |              | 720                 |        |              | 787           |
| <b>TOTALS:</b>   |               |                          |              |               |   |                           | 7,238         |        |              | 4,653               |        |              | 10,830        |
| <b>REMARKS:</b>  |               |                          |              |               |   |                           |               |        |              |                     |        |              |               |
|  |               | <b>P-1 ITEM NO</b><br>60 |              |               |   | <b>PAGE NO:</b><br>7 - 11 |               |        |              | Page 1 of 1         |        |              |               |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)   |      |                          |                 |   |                            |              | DATE: FEBRUARY 2002   |                       |                       |  |
|---|------|--------------------------|-----------------|---|----------------------------|--------------|-----------------------|-----------------------|-----------------------|--|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |      |                          |                 | P-1 NOMENCLATURE:<br>305 RADIO TEST STATION |                            |              |                       |                       |                       |  |
| ITEM /<br>FISCAL YEAR   | QTY. | UNIT<br>COST             | LOCATION OF PCO | CONTRACT<br>METHOD & TYPE                   | CONTRACTOR<br>AND LOCATION | AWD.<br>DATE | DATE<br>FIRST<br>DEL. | SPECS<br>AVAIL<br>NOW | DATE<br>REV.<br>AVAIL |  |
| 305 RADIO TEST STATION  |      |                          |                 |   |                            |              |                       |                       |                       |  |
| FY01  | 2    | 1110,860                 | AFMC/WR-ALC     | C/FFP                                       | GSA/ATTI/HAUPPAUGE, NY     | AUG 01       | FEB 02                |                       |                       |  |
| FY02  | 1    | 1110,860                 | AFMC/WR-ALC     | C/FFP                                       | GSA/ATTI/HAUPPAUGE, NY     | NOV 01       | MAR 02                |                       |                       |  |
| FY03  | 1    | 1110,860                 | AFMC/WR-ALC     | C/FFP                                       | GSA/ATTI/HAUPPAUGE, NY     | NOV 02       | MAR 03                | Y                     |                       |  |
| RF305BJ ENHANCED MODULATOR (1)  |      |                          |                 |   |                            |              |                       |                       |                       |  |
| FY01  | 1    | 776,500                  | AFMC/WR-ALC     | C/FFP                                       | GSA/ATTI/HAUPPAUGE, NY     | AUG 01       | DEC 01                |                       |                       |  |
| FY02  | 2    | 776,500                  | AFMC/WR-ALC     | C/FFP                                       | GSA/ATTI/HAUPPAUGE, NY     | NOV 01       | MAR 02                |                       |                       |  |
| FY03  | 2    | 776,500                  | AFMC/WR-ALC     | C/FFP                                       | GSA/ATTI/HAUPPAUGE, NY     | NOV 02       | MAR 03                | Y                     |                       |  |
| TEST PROGRAM SETS (TPS)   |      |                          |                 |   |                            |              |                       |                       |                       |  |
| FY01 (2)  | 6    | 350,000                  | AFMC/WR-ALC     | C/FFP                                       | MULTIPLE                   | SEP 01       | SEP 02                |                       |                       |  |
| FY03 (2)  | 17   | 350,000                  | AFMC/WR-ALC     | C/FFP                                       | MULTIPLE                   | MAR 03       | MAR 04                | Y                     |                       |  |
| <p><b>REMARKS:</b></p> <p>(1) RF305BJ Enhanced Modulator is an add-on module to the 305 Radio Test Station--it is not a stand-alone piece of equipment. The add-on module allows the 305 Radio Test Station to test high-speed digital aircraft avionics components such as the Joint Tactical Information Distribution System.</p> <p>(2) Warner Robins Air Logistics Center (WR-ALC) determined that competitive contracts with multiple vendors would be most advantageous to the Air Force due to complexity of the test program sets and software. Various contracts available through the following vendors: ATTI, Inc, Hauppauge, NY; TRW, San Bernardino, CA; Warner Robins Air Logistics Center (WR-ALC), Warner Robins, GA; Oklahoma City Air Logistics Center (OC-ALC), Oklahoma City, OK. Multiple awards to existing contracts; award/delivery dates reflect date of first award and delivery.</p> |      |                          |                 |   |                            |              |                       |                       |                       |  |
|   |      | <b>P-1 ITEM NO</b><br>60 |                 |   | <b>PAGE NO:</b><br>7 - 12  |              |                       | Page 1 of 1           |                       |  |

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| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>  |  |                           |               |  |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |  |                           |               | <b>P-1 NOMENCLATURE:</b><br>COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT |               |                            |               |               |
|  |  | <b>FY2001</b>             | <b>FY2002</b> | <b>FY2003</b>  | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>  |  |                           |               |  |               |                            |               |               |
| <b>COST</b><br>(in Thousands)  |  | \$4,963                   | \$7,818       | \$10,665   | \$14,367      | \$14,344                   | \$0           | \$0           |
| <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 to reduce aircrew vulnerability and enhance mission effectiveness. Current PLVs and DCSs are becoming increasingly unsupportable due to the 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 FY03 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><br>60   |  | <b>PAGE NO:</b><br>7 - 13 |               |  |               |                            | Page 1 of 1   |               |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)   |                          |     |              |               |   |              |                           |        |              | DATE: FEBRUARY 2002 |        |              |               |
|--|--------------------------|-----|--------------|---------------|---|--------------|---------------------------|--------|--------------|---------------------|--------|--------------|---------------|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)   |                          |     |              |               | P-1 NOMENCLATURE:<br>COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT |              |                           |        |              |                     |        |              |               |
| WEAPON SYSTEM<br>COST ELEMENTS   | IDENT<br>CODE            |     |              |               | FY2001  |              |                           | FY2002 |              |                     | FY2003 |              |               |
|  |                          | QTY | UNIT<br>COST | TOTAL<br>COST | QTY   | UNIT<br>COST | TOTAL<br>COST             | QTY    | UNIT<br>COST | TOTAL<br>COST       | QTY    | UNIT<br>COST | TOTAL<br>COST |
|  |                          |     |              |               |   |              | {4,963}                   |        |              | {7,818}             |        |              | {10,665}      |
| CAPRE  | A                        |     |              |               | 236   | 7,079        | 1,671                     | 135    | 7,279        | 983                 | 134    | 7,432        | 996           |
| TECHNICAL ORDER/LICENSES   |                          |     |              |               |   |              | 92                        |        |              | 53                  |        |              | 55            |
| AIRCRAFT ADAPTER GROUPS (AAG) (1)  |                          |     |              |               |   |              | 3,187                     |        |              | 6,601               |        |              | 9,376         |
| DATA   |                          |     |              |               |   |              | 13                        |        |              | 31                  |        |              | 38            |
| INTERIM CONTRACTOR SUPPORT (ICS)   |                          |     |              |               |   |              |                           |        |              | 150                 |        |              | 200           |
|  |                          |     |              |               |   |              |                           |        |              |                     |        |              |               |
| <b>TOTALS:</b>   |                          |     |              |               |   |              | 4,963                     |        |              | 7,818               |        |              | 10,665        |
| <b>REMARKS:</b><br>1. Aircraft Adapter Groups (AAG) are required to interface the CAPRE and the weapons system being loaded. |                          |     |              |               |   |              |                           |        |              |                     |        |              |               |
|  | <b>P-1 ITEM NO</b><br>60 |     |              |               |   |              | <b>PAGE NO:</b><br>7 - 14 |        |              |                     |        |              | Page 1 of 1   |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)                  |      |                   |                 |   |  |                    | DATE: FEBRUARY 2002   |                       |                       |             |
|--|------|-------------------|-----------------|---|--|--------------------|-----------------------|-----------------------|-----------------------|-------------|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |      |                   |                 | P-1 NOMENCLATURE:<br>COMMON AIRCRAFT PORTABLE REPROGRAMMING EQUIPMENT |  |                    |                       |                       |                       |             |
| ITEM /<br>FISCAL YEAR  | QTY. | UNIT<br>COST      | LOCATION OF PCO | CONTRACT<br>METHOD & TYPE   | CONTRACTOR<br>AND LOCATION                                     | AWD.<br>DATE       | DATE<br>FIRST<br>DEL. | SPECS<br>AVAIL<br>NOW | DATE<br>REV.<br>AVAIL |             |
| CAPRE  |      |                   |                 |   |  |                    |                       |                       |                       |             |
| FY01   | 236  | 7,079             | AFMC/WR-ALC     | OPT/FFP   | GSA/GOVERNMENT<br>TECHNOLOGIES SERVICES INC.,<br>CHANTILLY, VA | JUL 01             | SEP 01                |                       |                       |             |
| FY02   | 135  | 7,279             | AFMC/WR-ALC     | OPT/FFP   | GSA/GOVERNMENT<br>TECHNOLOGIES SERVICES INC.,<br>CHANTILLY, VA | JUN 02             | JUL 02                | Y                     |                       |             |
| FY03   | 134  | 7,432             | AFMC/WR-ALC     | OPT/FFP   | GSA/GOVERNMENT<br>TECHNOLOGIES SERVICES INC.,<br>CHANTILLY, VA | JUN 03             | JUL 03                | Y                     |                       |             |
| REMARKS:   |      |                   |                 |   |  |                    |                       |                       |                       |             |
|  |      | P-1 ITEM NO<br>60 |                 |   |  | PAGE NO:<br>7 - 15 |                       |                       |                       | Page 1 of 1 |

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| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>   |  |                           |               |   |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)   |  |                           |               | <b>P-1 NOMENCLATURE:</b><br>LIQUID COOLANT CART |               |                            |               |               |
|   |  | <b>FY2001</b>             | <b>FY2002</b> | <b>FY2003</b>                                   | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>   |  |                           |               |   |               |                            |               |               |
| <b>COST</b><br>(in Thousands)   |  | \$0                       | \$1,000       | \$7,164   | \$5,731       | \$0                        | \$0           | \$0           |
| <p><b>Description:</b></p> <p>1. The Liquid Coolant Cart (LCC) is a self-contained, trailer-mounted, diesel engine driven cooler, providing chilled coolant to aircraft avionics and radar systems during troubleshooting, maintenance, or testing of these systems. It supplies up to 85 gallons-per-minute (gpm) of cooled dielectric fluid at 5 to 250 pounds per-square-inch (psi) to meet the weapon system requirements. The system removes the electrical equipment heat load prevalent in all modern avionics equipped aircraft. The secondary coolant flow system is used to purge and bleed internal systems ensuring no air or contaminants enter the aircraft's coolant system, thereby reducing critical avionics failures. The LCC will operate in austere circumstances, such as, blowing rain, temperatures between -40 to 125 degrees, desert conditions, salt fog, as well as extreme snow and ice conditions. In accordance with the Age Ground Support Master Plan initiative to reduce proliferation through standardization, this cart will be able to utilize several types of liquid coolants: Polyalphaolefin (POA), Liquid Coolanol for use on the B-1B and the F-22, Ethylene Glycol Water (EGW) found in most fighter/bomber aircraft, or Propylene Glycol Water (PGW) for use on the E-3 and the E-4.</p> <p>2. Failure to support this program will result in increased maintenance costs and increased aircraft mission capable rates (MC). Currently there has been a significant increase in "fried" components during ground operations due to the inability of the existing cart to provide adequate cooling to modern avionics components. Items currently in use have exceeded their economic service life. The older units utilize chlorofluorcarbon, R-12, which is a Class 1 ozone depleting substance, whereas, the new unit will utilize the ozone friendly R-134a. It will also comply with engine emissions regulated under the Environmental Protection Agency (EPA) standards. By fielding the modern unit, the government will be acting in accordance with the Montreal Protocol Treaty and the Clean Air Act requiring the elimination of R-12 refrigerant. The new cart is over 8,000 pounds lighter than the existing cart, takes up 1 versus 2 pallet positions, and is a four-wheeled rolling stock, thereby reducing the mobility/deployment footprint by over 50 percent.</p> <p>3. Items requested in FY03 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><br>60  |  | <b>PAGE NO:</b><br>7 - 16 |               |   |               |                            | Page 1 of 1   |               |

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| <b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)</b>                           |               |                          |              |               |        |   |               |        |              |               |        | <b>DATE:</b> FEBRUARY 2002 |               |  |
|---|---------------|--------------------------|--------------|---------------|--------|---|---------------|--------|--------------|---------------|--------|----------------------------|---------------|--|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |               |                          |              |               |        | <b>P-1 NOMENCLATURE:</b><br>LIQUID COOLANT CART |               |        |              |               |        |                            |               |  |
| WEAPON SYSTEM<br>COST ELEMENTS  | IDENT<br>CODE |                          |              |               | FY2001 |   |               | FY2002 |              |               | FY2003 |                            |               |  |
|   |               | QTY                      | UNIT<br>COST | TOTAL<br>COST | QTY    | UNIT<br>COST                                    | TOTAL<br>COST | QTY    | UNIT<br>COST | TOTAL<br>COST | QTY    | UNIT<br>COST               | TOTAL<br>COST |  |
|   |               |                          |              |               |        |   |               |        |              | {1,000}       |        |                            | {7,164}       |  |
| LIQUID COOLANT CART (1)   | A             |                          |              |               |        |   |               | 2      | 375,000      | 750           | 25     | 286,568                    | 7,164         |  |
| TECHNICAL DATA  |               |                          |              |               |        |   |               |        | 250,000      | 250           |        |                            |               |  |
|   |               |                          |              |               |        |   |               |        |              |               |        |                            |               |  |
|   |               |                          |              |               |        |   |               |        |              |               |        |                            |               |  |
| <b>TOTALS:</b>  |               |                          |              |               |        |   |               |        |              | 1,000         |        |                            | 7,164         |  |
| <b>REMARKS:</b><br>(1) FY02 procures two First Articles.                    |               |                          |              |               |        |   |               |        |              |               |        |                            |               |  |
|   |               | <b>P-1 ITEM NO</b><br>60 |              |               |        | <b>PAGE NO:</b><br>7 - 17                       |               |        |              |               |        | Page 1 of 1                |               |  |

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| <b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>                  |      |                          |                 |   |                            |                           | <b>DATE:</b> FEBRUARY 2002 |                       |                       |  |
|---|------|--------------------------|-----------------|---|----------------------------|---------------------------|----------------------------|-----------------------|-----------------------|--|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |      |                          |                 | <b>P-1 NOMENCLATURE:</b><br>LIQUID COOLANT CART |                            |                           |                            |                       |                       |  |
| ITEM /<br>FISCAL YEAR   | QTY. | UNIT<br>COST             | LOCATION OF PCO | CONTRACT<br>METHOD & TYPE                       | CONTRACTOR<br>AND LOCATION | AWD.<br>DATE              | DATE<br>FIRST<br>DEL.      | SPECS<br>AVAIL<br>NOW | DATE<br>REV.<br>AVAIL |  |
| LIQUID COOLANT CART   |      |                          |                 |   |                            |                           |                            |                       |                       |  |
| FY02  | 2    | 375,000                  | AFMC/WR-ALC     | C/FFP   | UNKNOWN                    | FEB 02                    | JAN 03                     | Y                     |                       |  |
| FY03  | 25   | 286,568                  | AFMC/WR-ALC     | C/FFP W/OPT                                     | UNKNOWN                    | JAN 03                    | JUL 03                     | Y                     |                       |  |
|   |      |                          |                 |   |                            |                           |                            |                       |                       |  |
|   |      |                          |                 |   |                            |                           |                            |                       |                       |  |
|   |      |                          |                 |   |                            |                           |                            |                       |                       |  |
| <b>REMARKS:</b>   |      |                          |                 |   |                            |                           |                            |                       |                       |  |
|   |      | <b>P-1 ITEM NO</b><br>60 |                 |   |                            | <b>PAGE NO:</b><br>7 - 18 |                            | Page 1 of 1           |                       |  |

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| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>   |  |                          |               |   |                           |               | <b>DATE:</b> FEBRUARY 2002 |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)   |  |                          |               | <b>P-1 NOMENCLATURE:</b><br>NEW GENERATION HEATER |                           |               |                            |               |
|   |  | <b>FY2001</b>            | <b>FY2002</b> | <b>FY2003</b>                                     | <b>FY2004</b>             | <b>FY2005</b> | <b>FY2006</b>              | <b>FY2007</b> |
| <b>QUANTITY</b>   |  |                          |               |   |                           |               |                            |               |
| <b>COST</b><br>(in Thousands)   |  | \$2,202                  | \$8,772       | \$9,211   | \$9,755                   | \$9,950       | \$11,437                   | \$11,608      |
| <p><b>Description:</b></p> <p>1. The New Generation Heater is a wheeled, trailer-mounted, duct-type heater primarily used to provide personnel comfort while performing aircraft maintenance. It heats aircraft cockpits, engines, cargo areas, and temporary structures in various environments using multiple fuels. FY03 continues a total replacement program, which began in FY99 to replace current systems that have become increasingly difficult and costly to maintain. Additionally, numerous replacement parts are no longer available due to obsolescence. The following aircraft are supported by this heater: A-10, B-1, B-52, B-2, C-5, C-9, C-12, C-21, C-130, E-3, E-4, F-15, F-16, F-117, H-1, H-53, and KC-10.</p> <p>2. Failure to procure this New Generation Heater will result in the continued costly repair of old, unreliable units and high man-hour expenditures. Heaters currently in use have well exceeded their estimated service lives. Without new replacements, units will be unable to perform flightline tasks with a resulting impact on mission readiness.</p> <p>3. Items requested in FY03 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><br>60 |               |   | <b>PAGE NO:</b><br>7 - 19 |               |                            |               |
|   |  |                          |               |   |                           |               |                            | Page 1 of 1   |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)                           |               |                          |              |               |  |                           |               |        |              | DATE: FEBRUARY 2002 |        |              |               |
|--|---------------|--------------------------|--------------|---------------|--|---------------------------|---------------|--------|--------------|---------------------|--------|--------------|---------------|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |               |                          |              |               | P-1 NOMENCLATURE:<br>NEW GENERATION HEATER |                           |               |        |              |                     |        |              |               |
| WEAPON SYSTEM<br>COST ELEMENTS                                       | IDENT<br>CODE |                          |              |               | FY2001                                     |                           |               | FY2002 |              |                     | FY2003 |              |               |
|  |               | QTY                      | UNIT<br>COST | TOTAL<br>COST | QTY  | UNIT<br>COST              | TOTAL<br>COST | QTY    | UNIT<br>COST | TOTAL<br>COST       | QTY    | UNIT<br>COST | TOTAL<br>COST |
|  |               |                          |              |               |  |                           | {2,202}       |        |              | {8,772}             |        |              | {9,211}       |
| NEW GENERATION HEATER  | A             |                          |              |               | 200  | 10,870                    | 2,174         | 888    | 9,875        | 8,769               | 888    | 10,369       | 9,208         |
| DATA   |               |                          |              |               |  |                           | 5             |        |              |                     |        |              |               |
| TRAINING (TYPE I)  |               |                          |              |               |  |                           | 9             |        |              | 3                   |        |              | 3             |
| REFURBISHMENT OF FIRST ARTICLE<br>UNITS                              |               |                          |              |               |  |                           | 14            |        |              |                     |        |              |               |
| <b>TOTALS:</b>   |               |                          |              |               |  |                           | 2,202         |        |              | 8,772               |        |              | 9,211         |
| <b>REMARKS:</b>  |               |                          |              |               |  |                           |               |        |              |                     |        |              |               |
|  |               | <b>P-1 ITEM NO</b><br>60 |              |               |  | <b>PAGE NO:</b><br>7 - 20 |               |        |              | Page 1 of 1         |        |              |               |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)                                   |      |                          |                 |  |                            |                           | DATE: FEBRUARY 2002 |                 |                 |             |
|---|------|--------------------------|-----------------|--|----------------------------|---------------------------|---------------------|-----------------|-----------------|-------------|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)                  |      |                          |                 | P-1 NOMENCLATURE:<br>NEW GENERATION HEATER |                            |                           |                     |                 |                 |             |
| ITEM / FISCAL YEAR  | QTY. | UNIT COST                | LOCATION OF PCO | CONTRACT METHOD & TYPE                     | CONTRACTOR AND LOCATION    | AWD. DATE                 | DATE FIRST DEL.     | SPECS AVAIL NOW | DATE REV. AVAIL |             |
| NEW GENERATION HEATER   |      |                          |                 |  |                            |                           |                     |                 |                 |             |
| FY01  | 200  | 10,870                   | AFMC/WR-ALC     | OPT/FFP                                    | POLARTHERM, LUVIA, FINLAND | JUN 01                    | DEC 01              |                 |                 |             |
| FY02  | 888  | 9,875                    | AFMC/WR-ALC     | OPT/FFP                                    | POLARTHERM, LUVIA, FINLAND | FEB 02                    | MAY 02              | Y               |                 |             |
| FY03  | 888  | 10,369                   | AFMC/WR-ALC     | OPT/FFP                                    | POLARTHERM, LUVIA, FINLAND | NOV 02                    | FEB 03              | Y               |                 |             |
| <b>REMARKS:</b><br>FY01-03 are options to FY99 First Article contract awarded May 99. |      |                          |                 |  |                            |                           |                     |                 |                 |             |
|   |      | <b>P-1 ITEM NO</b><br>60 |                 |  |                            | <b>PAGE NO:</b><br>7 - 21 |                     |                 |                 | Page 1 of 1 |

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| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>   |  |                           |               |  |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)   |  |                           |               | <b>P-1 NOMENCLATURE:</b><br>HYDRAULIC COMPONENT TEST STAND |               |                            |               |               |
|   |  | <b>FY2001</b>             | <b>FY2002</b> | <b>FY2003</b>  | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>   |  |                           |               |  |               |                            |               |               |
| <b>COST</b><br>(in Thousands)   |  | \$1,831                   | \$0           | \$8,410  | \$8,033       | \$8,112                    | \$4,706       | \$2,822       |
| <p><b>Description:</b></p> <p>1. The Hydraulic Component Test Stand (HCT-20) checks serviceability of aircraft components prior to installation, pressure checks locally manufactured hoses, and tests repaired aircraft hydraulic components. It is comprised of two sections. The first section is the drive console which houses a drive panel, pump mounting pad, and a skid that contains a variable speed direct current electric drive motor with associated parts. It also contains a high pressure system hydraulic pump with electric drive motor, volume control, high pressure filter, and ripple filter. The second section is a control console containing controls, indicators, and ports used during test stand operation.</p> <p>2. Failure to procure the HCT-20 will result in continued costly repair of old, worn out units and high manpower expenditures. Current stands have numerous parts that are no longer available through the supply system due to obsolescence. Without this item, field activities would have no method to check components obtained from stock prior to installation on the aircraft. This item eliminates the need to use the aircraft as a test bed.</p> <p>3. Items requested in FY03 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><br>60  |  | <b>PAGE NO:</b><br>7 - 22 |               |  |               |                            | Page 1 of 1   |               |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)                                  |               |                          |              |               |   |                           |               |        |              | DATE: FEBRUARY 2002 |        |              |               |
|---|---------------|--------------------------|--------------|---------------|---|---------------------------|---------------|--------|--------------|---------------------|--------|--------------|---------------|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)        |               |                          |              |               | P-1 NOMENCLATURE:<br>HYDRAULIC COMPONENT TEST STAND |                           |               |        |              |                     |        |              |               |
| WEAPON SYSTEM<br>COST ELEMENTS  | IDENT<br>CODE |                          |              |               | FY2001  |                           |               | FY2002 |              |                     | FY2003 |              |               |
|   |               | QTY                      | UNIT<br>COST | TOTAL<br>COST | QTY   | UNIT<br>COST              | TOTAL<br>COST | QTY    | UNIT<br>COST | TOTAL<br>COST       | QTY    | UNIT<br>COST | TOTAL<br>COST |
|   |               |                          |              |               |   |                           | {1,831}       |        |              |                     |        |              | {8,410}       |
| HYD COMP TEST STAND (1)   | A             |                          |              |               | 2   | \$706,305                 | 1,413         |        |              |                     | 40     | \$210,251    | 8,410         |
| TECHNICAL MANUALS   |               |                          |              |               |   |                           | \$161         |        |              |                     |        |              |               |
| DATA  |               |                          |              |               |   |                           | \$228         |        |              |                     |        |              |               |
| TRAINING, TYPE I  |               |                          |              |               |   |                           | \$29          |        |              |                     |        |              |               |
| <b>TOTALS:</b>  |               |                          |              |               |   |                           | 1,831         |        |              |                     |        |              | 8,410         |
| <b>REMARKS:</b><br>1. Procurement in FY01 for 2 each is for First Articles. |               |                          |              |               |   |                           |               |        |              |                     |        |              |               |
|   |               | <b>P-1 ITEM NO</b><br>60 |              |               |   | <b>PAGE NO:</b><br>7 - 23 |               |        |              |                     |        | Page 1 of 1  |               |

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| <b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>  |      |                          |                 |  |   |                           | <b>DATE:</b> FEBRUARY 2002 |                 |                 |             |
|---|------|--------------------------|-----------------|--|---|---------------------------|----------------------------|-----------------|-----------------|-------------|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)   |      |                          |                 | <b>P-1 NOMENCLATURE:</b><br>HYDRAULIC COMPONENT TEST STAND |   |                           |                            |                 |                 |             |
| ITEM / FISCAL YEAR  | QTY. | UNIT COST                | LOCATION OF PCO | CONTRACT METHOD & TYPE                                     | CONTRACTOR AND LOCATION                   | AWD. DATE                 | DATE FIRST DEL.            | SPECS AVAIL NOW | DATE REV. AVAIL |             |
| HYD COMP TEST STAND   |      |                          |                 |  |   |                           |                            |                 |                 |             |
| FY01 (1)  | 2    | 706,305                  | AFMC/WR-ALC     | C/FFP  | HYDRAULIC INTERNATIONAL,<br>CHATSWORTH CA | FEB 01                    | JAN 06                     |                 |                 |             |
| FY03  | 40   | 210,251                  | AFMC/WR-ALC     | OPT/FFP  | HYDRAULIC INTERNATIONAL,<br>CHATSWORTH CA | NOV 02                    | JUL 03                     | Y               |                 |             |
| <b>REMARKS:</b><br>1. FY02 funding not required due to slip in First Article Acceptance which is scheduled Sep 02. Two each First Article units to be retained by manufacturer as production models and delivered as last production units. |      |                          |                 |  |   |                           |                            |                 |                 |             |
|   |      | <b>P-1 ITEM NO</b><br>60 |                 |  |   | <b>PAGE NO:</b><br>7 - 24 |                            |                 |                 | Page 1 of 1 |

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| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>   |  |                          |               |   |                           | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)   |  |                          |               | <b>P-1 NOMENCLATURE:</b><br>ALUMINUM RAIL SET |                           |                            |               |               |
|   |  | <b>FY2001</b>            | <b>FY2002</b> | <b>FY2003</b>                                 | <b>FY2004</b>             | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>   |  |                          |               |   |                           |                            |               |               |
| <b>COST</b><br>(in Thousands)   |  | \$441                    | \$3,900       | \$7,811                                       | \$7,959                   | \$4,469                    | \$0           | \$0           |
| <p><b>Description:</b></p> <p>1. The Aluminum Rail Set is a multi-configuration munitions transport adapter that provides interface between the transport trailer and the munition being transported. It consists of aluminum rails with rollers, support structures and trolley assemblies. The trolleys glide the length of the rollerized rails while carrying the munitions. These rails are the only way to configure trailers to carry the Joint Air-to-Surface Stand-Off Missile (JASSM), Joint Direct Attack Missile (JDAM), General Purpose Bombs, Guided Bombs and the latest technology/soft skinned weapons safely and efficiently and are the cornerstones of an interoperable, easily deployable universal rail system. This system will support the bomb loading on any weapon system in the Air Force including the F-16C, F-15E, B-2, B-52H, and B1B.</p> <p>2. Failure to procure the Aluminum Rail Sets will prevent transporting and loading of JASSM/JDAM and other soft skinned munitions, increasing turn around times between sorties. Without the Aluminum Rail Set, personnel will be forced to load one bomb at a time from the bomb build area. FY03 continues procurement of these rail sets.</p> <p>3. Items requested in FY03 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><br>60 |               |   | <b>PAGE NO:</b><br>7 - 25 |                            |               |               |
|   |  |                          |               |   |                           | Page 1 of 1                |               |               |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)                                  |               |                          |              |               |  |                           |               |        |              | DATE: FEBRUARY 2002 |        |              |               |
|---|---------------|--------------------------|--------------|---------------|--|---------------------------|---------------|--------|--------------|---------------------|--------|--------------|---------------|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)        |               |                          |              |               | P-1 NOMENCLATURE:<br>ALUMINUM RAIL SET |                           |               |        |              |                     |        |              |               |
| WEAPON SYSTEM<br>COST ELEMENTS  | IDENT<br>CODE |                          |              |               | FY2001                                 |                           |               | FY2002 |              |                     | FY2003 |              |               |
|   |               | QTY                      | UNIT<br>COST | TOTAL<br>COST | QTY                                    | UNIT<br>COST              | TOTAL<br>COST | QTY    | UNIT<br>COST | TOTAL<br>COST       | QTY    | UNIT<br>COST | TOTAL<br>COST |
|   |               |                          |              |               |  |                           | {441}         |        |              | {3,900}             |        |              | {7,811}       |
| ALUMINUM RAIL SET (1)   | A             |                          |              |               | 3                                      | 127,677                   | 383           | 60     | 64,000       | 3,840               | 120    | 65,088       | 7,811         |
| ENGINEERING DATA  |               |                          |              |               |  |                           | 58            |        |              | 60                  |        |              |               |
|   |               |                          |              |               |  |                           |               |        |              |                     |        |              |               |
| <b>TOTALS:</b>  |               |                          |              |               |  |                           | 441           |        |              | 3,900               |        |              | 7,811         |
| <b>REMARKS:</b><br>1. Procurement of 3 each in FY01 are for First Articles. |               |                          |              |               |  |                           |               |        |              |                     |        |              |               |
|   |               | <b>P-1 ITEM NO</b><br>60 |              |               |  | <b>PAGE NO:</b><br>7 - 26 |               |        |              | Page 1 of 1         |        |              |               |

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| <b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>                  |      |                          |                 |   |                            |              | <b>DATE:</b> FEBRUARY 2002 |                       |                       |  |
|---|------|--------------------------|-----------------|---|----------------------------|--------------|----------------------------|-----------------------|-----------------------|--|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |      |                          |                 | <b>P-1 NOMENCLATURE:</b><br>ALUMINUM RAIL SET |                            |              |                            |                       |                       |  |
| ITEM /<br>FISCAL YEAR   | QTY. | UNIT<br>COST             | LOCATION OF PCO | CONTRACT<br>METHOD & TYPE                     | CONTRACTOR<br>AND LOCATION | AWD.<br>DATE | DATE<br>FIRST<br>DEL.      | SPECS<br>AVAIL<br>NOW | DATE<br>REV.<br>AVAIL |  |
| ALUMINUM RAIL SETS  |      |                          |                 |   |                            |              |                            |                       |                       |  |
| FY01  | 3    | 127,677                  | AFMC/WR-ALC     | DO/FFP  | MTI INC. CRESTVIEW, FL     | JUN 01       | APR 02                     |                       |                       |  |
| FY02  | 60   | 64,000                   | AFMC/WR-ALC     | C/FFP W/OPT                                   | UNKNOWN                    | APR 02       | SEP 02                     | Y                     |                       |  |
| FY03  | 120  | 65,088                   | AFMC/WR-ALC     | C/FFP W/OPT                                   | UNKNOWN                    | DEC 02       | APR 03                     | Y                     |                       |  |
| <b>REMARKS:</b>   |      |                          |                 |   |                            |              |                            |                       |                       |  |
|   |      | <b>P-1 ITEM NO</b><br>60 |                 |   | <b>PAGE NO:</b><br>7 - 27  |              |                            | Page 1 of 1           |                       |  |

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|--|--------------------------|---------------|---------------------------|---|---------------|----------------------------|---------------|---------------|
| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>  |                          |               |                           |   |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |                          |               |                           | <b>P-1 NOMENCLATURE:</b><br>ROOF-MOUNTED AIR CONDITIONER MODULE |               |                            |               |               |
|  |                          | <b>FY2001</b> | <b>FY2002</b>             | <b>FY2003</b>   | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>  |                          |               |                           |   |               |                            |               |               |
| <b>COST</b><br>(in Thousands)  |                          | \$0           | \$1,500                   | \$7,702   | \$6,127       | \$0                        | \$0           | \$0           |
| <p><b>Description:</b></p> <p>1. The Roof-Mounted Air Conditioning Module (RACM) is a compact, lightweight, air cycle air conditioner that will be mounted on top of the existing A/M32A-60 ground power unit (-60 generator cart). The RACM uses bleed air from the -60 cart and is capable of delivering up to 100 pounds-per-minute (ppm) of 55-200 degrees Fahrenheit air to cool aircraft avionics during ground maintenance. The RACM will operate in extreme climate conditions such as, blowing rain, temperatures between -65 to 125 degrees, desert conditions, salt fog, and up to 100 percent humidity. The RACM will reduce the need for the A/M32C-10 series trailer air conditioners (which are also used in conjunction with the -60 generator carts) thereby reducing unit deployment footprints. The RACM will support all tactical fighter aircraft: the F-15, F-16, and F-117.</p> <p>2. Failure to procure the RACM will lead to an increase in sortie abort rates and a reduction in mission capable rates. The new suites of avionics equipment used in the tactical aircraft fleet are state of the art and capable of processing vast amounts of data. With this capability comes a dramatic increase in the amount of heat put off by the components. The field has well documented cases of components "frying" as a result of inadequate cooling air provided during troubleshooting and pre-flight operations. Without RACM, maintenance personnel will not be able to do prevent operations checks, pilots will have to curtail preflight checks, and replacement costs for these high priced components will dramatically increase. RACM provides the only way to ensure high dollar/heat sensitive components are protected.</p> <p>3. Items requested in FY03 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 needs to support current Air Force mission requirements.</p> |                          |               |                           |   |               |                            |               |               |
|  | <b>P-1 ITEM NO</b><br>60 |               | <b>PAGE NO:</b><br>7 - 28 |   |               | Page 1 of 1                |               |               |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)                                  |               |                          |              |               |  |                           |               |        |              | DATE: FEBRUARY 2002 |        |              |               |
|---|---------------|--------------------------|--------------|---------------|--|---------------------------|---------------|--------|--------------|---------------------|--------|--------------|---------------|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)        |               |                          |              |               | P-1 NOMENCLATURE:<br>ROOF-MOUNTED AIR CONDITIONER MODULE |                           |               |        |              |                     |        |              |               |
| WEAPON SYSTEM<br>COST ELEMENTS  | IDENT<br>CODE |                          |              |               | FY2001   |                           |               | FY2002 |              |                     | FY2003 |              |               |
|   |               | QTY                      | UNIT<br>COST | TOTAL<br>COST | QTY  | UNIT<br>COST              | TOTAL<br>COST | QTY    | UNIT<br>COST | TOTAL<br>COST       | QTY    | UNIT<br>COST | TOTAL<br>COST |
|   |               |                          |              |               |  |                           |               |        |              | {1,500}             |        |              | {7,702}       |
| RACM (1)  | A             |                          |              |               |  |                           |               | 3      | 60,000       | 180                 | 240    | 32,092       | 7,702         |
| INDEPENDENT VALIDATION &<br>VERIFICATION                                    |               |                          |              |               |  |                           |               |        |              | 720                 |        |              |               |
| TECHNICAL DATA  |               |                          |              |               |  |                           |               |        |              | 600                 |        |              |               |
| <b>TOTALS:</b>  |               |                          |              |               |  |                           |               |        |              | 1,500               |        |              | 7,702         |
| <b>REMARKS:</b><br>1. Procurement in FY02 for 3 each is for First Articles. |               |                          |              |               |  |                           |               |        |              |                     |        |              |               |
|   |               | <b>P-1 ITEM NO</b><br>60 |              |               |  | <b>PAGE NO:</b><br>7 - 29 |               |        |              | Page 1 of 1         |        |              |               |

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| <b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>                  |                          |              |                 |                           |   |              | <b>DATE:</b> FEBRUARY 2002 |                       |                       |  |
|---|--------------------------|--------------|-----------------|---------------------------|---|--------------|----------------------------|-----------------------|-----------------------|--|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |                          |              |                 |                           | <b>P-1 NOMENCLATURE:</b><br>ROOF-MOUNTED AIR CONDITIONER MODULE |              |                            |                       |                       |  |
| ITEM /<br>FISCAL YEAR   | QTY.                     | UNIT<br>COST | LOCATION OF PCO | CONTRACT<br>METHOD & TYPE | CONTRACTOR<br>AND LOCATION                                      | AWD.<br>DATE | DATE<br>FIRST<br>DEL.      | SPECS<br>AVAIL<br>NOW | DATE<br>REV.<br>AVAIL |  |
| RACM  |                          |              |                 |                           |   |              |                            |                       |                       |  |
| FY02  | 3                        | 60,000       | AFMC/WR-ALC     | C/FFP                     | UNKNOWN   | MAR 02       | JUN 03                     | Y                     |                       |  |
| FY03  | 240                      | 32,092       | AFMC/WR-ALC     | C/FFP W/OPT               | UNKNOWN   | APR 03       | OCT 03                     | Y                     |                       |  |
| <b>REMARKS:</b>   |                          |              |                 |                           |   |              |                            |                       |                       |  |
|   | <b>P-1 ITEM NO</b><br>60 |              |                 | <b>PAGE NO:</b><br>7 - 30 |   |              |                            | Page 1 of 1           |                       |  |

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|---|--|---------------------------|---------------|--|---------------|---------------|----------------------------|---------------|
| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>   |  |                           |               |  |               |               | <b>DATE:</b> FEBRUARY 2002 |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)   |  |                           |               | <b>P-1 NOMENCLATURE:</b><br>SINGLE CONTAINER ADV RADAR SIMULATOR |               |               |                            |               |
|   |  | <b>FY2001</b>             | <b>FY2002</b> | <b>FY2003</b>  | <b>FY2004</b> | <b>FY2005</b> | <b>FY2006</b>              | <b>FY2007</b> |
| <b>QUANTITY</b>   |  |                           |               |  |               |               |                            |               |
| <b>COST</b><br>(in Thousands)   |  | \$4,564                   | \$7,163       | \$7,220  | \$8,246       | \$14,293      | \$14,865                   | \$5,334       |
| <p><b>Description:</b></p> <p>1. The Single Container Advanced Radar Simulator (SCARS), commonly referred to as a "Squirt Box", is a highly sophisticated, portable tester used to perform dynamic stimulation of various aircraft Electronic Combat (EC) systems by simulating the parameters of enemy radar. SCARS replaces the AN/APM-427 Improved Radar Simulator (IRS) Squirt Box as the only EC free-space radiating support equipment in the Air Force inventory. It will provide an organizational-level flight line capability for verifying operational status of aircraft-installed EC systems that is much more efficient, maintainable, and reduces mobility footprint by fifty percent (current system requires four squirt boxes; this replacement requires only two). This equipment supports the following Air Force weapon systems: A-10, B-1, B-2, B-52, C-130, C-141, F-15, F-16, and MH-53.</p> <p>2. Failure to procure this item would result in Air Force dependence on an unreliable, increasingly difficult to support, 20-year old system. If the current system is not replaced with SCARS, the Air Force will experience an increased degradation of mission capability and seriously impact aircrew/aircraft survivability and mission accomplishment. SCARS' smaller and lighter design will reduce the mobility footprint and provide essential technological improvements key to supporting forward basing and rapid deployment under Expeditionary Air Force (EAF) concept.</p> <p>3. Items requested FY03 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 missions.</p> |  |                           |               |  |               |               |                            |               |
| <b>P-1 ITEM NO</b><br>60  |  | <b>PAGE NO:</b><br>7 - 31 |               |  | Page 1 of 1   |               |                            |               |

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| <b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)</b>   |               |                          |              |               |        |                           | <b>DATE:</b> FEBRUARY 2002                                       |        |              |               |             |              |               |
|---|---------------|--------------------------|--------------|---------------|--------|---------------------------|--|--------|--------------|---------------|-------------|--------------|---------------|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)   |               |                          |              |               |        |                           | <b>P-1 NOMENCLATURE:</b><br>SINGLE CONTAINER ADV RADAR SIMULATOR |        |              |               |             |              |               |
| WEAPON SYSTEM<br>COST ELEMENTS  | IDENT<br>CODE |                          |              |               | FY2001 |                           |  | FY2002 |              |               | FY2003      |              |               |
|   |               | QTY                      | UNIT<br>COST | TOTAL<br>COST | QTY    | UNIT<br>COST              | TOTAL<br>COST  | QTY    | UNIT<br>COST | TOTAL<br>COST | QTY         | UNIT<br>COST | TOTAL<br>COST |
|   |               |                          |              |               |        |                           | {4,564}  |        |              | {7,163}       |             |              | {7,220}       |
| SCARS   | A             |                          |              |               | 63     | 61,090                    | 3,849  | 97     | 63,534       | 6,163         | 79          | 66,075       | 5,220         |
| TECHNICAL DATA (1)  |               |                          |              |               |        |                           | 715  |        |              | 1,000         |             |              | 2,000         |
| <b>TOTALS:</b>  |               |                          |              |               |        |                           | 4,564  |        |              | 7,163         |             |              | 7,220         |
| <b>REMARKS:</b><br>1. Each item will be delivered with weapon system specific technical data procured/delivered in the same year production units are procured. |               |                          |              |               |        |                           |  |        |              |               |             |              |               |
|   |               | <b>P-1 ITEM NO</b><br>60 |              |               |        | <b>PAGE NO:</b><br>7 - 32 |  |        |              |               | Page 1 of 1 |              |               |

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| <b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>   |      |                          |                 |  |                               |                           | <b>DATE:</b> FEBRUARY 2002 |                 |                 |             |
|--|------|--------------------------|-----------------|--|-------------------------------|---------------------------|----------------------------|-----------------|-----------------|-------------|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |      |                          |                 | <b>P-1 NOMENCLATURE:</b><br>SINGLE CONTAINER ADV RADAR SIMULATOR |                               |                           |                            |                 |                 |             |
| 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 |             |
| SCARS  |      |                          |                 |  |                               |                           |                            |                 |                 |             |
| FY01   | 63   | 61,090                   | AFMC/WR-ALC     | SS/FFP   | AIL SYSTEMS INC, LANCASTER CA | FEB 01                    | APR 01                     |                 |                 |             |
| FY02   | 97   | 63,534                   | AFMC/WR-ALC     | OPT/FFP  | AIL SYSTEMS INC, LANCASTER CA | MAR 02                    | JUL 02                     |                 |                 |             |
| FY03   | 79   | 66,075                   | AFMC/WR-ALC     | OPT/FFP  | AIL SYSTEMS INC, LANCASTER CA | DEC 02                    | APR 03                     | Y               |                 |             |
| <b>REMARKS:</b><br>1. SCARS is a COTS item sold on the open market to civilian/government customers that may be purchased from actual manufacturer or their distributors. Justification and Approval (J&A) was approved by Contracting Committee and Legal, and a basic contract with four options was awarded Feb 01. |      |                          |                 |  |                               |                           |                            |                 |                 |             |
|  |      | <b>P-1 ITEM NO</b><br>60 |                 |  |                               | <b>PAGE NO:</b><br>7 - 33 |                            |                 |                 | Page 1 of 1 |

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|--|--------------------------|---------------|---------------------------|--|---------------|----------------------------|---------------|---------------|
| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>  |                          |               |                           |  |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |                          |               |                           | <b>P-1 NOMENCLATURE:</b><br>405 TRANSPORTABLE RADIO TEST STATION |               |                            |               |               |
|  |                          | <b>FY2001</b> | <b>FY2002</b>             | <b>FY2003</b>  | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>  |                          |               |                           |  |               |                            |               |               |
| <b>COST</b><br>(in Thousands)  |                          | \$7,114       | \$7,200                   | \$7,100  | \$8,881       | \$1,000                    | \$0           | \$0           |
| <p><b>Description:</b></p> <p>The 405 Transportable Radio Test Station, also known as the Radio Frequency Transportable-Benchtop Reconfigurable Automatic Tester (RFT-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. The RF T-BRAT 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 adapters (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 (TPS). 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. 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.</p> <p>2. Failure to procure the 405 Transportable Radio Test Stations TPSs and support 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.</p> <p>3. Items requested in FY03 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><br>60 |               | <b>PAGE NO:</b><br>7 - 34 |  | Page 1 of 1   |                            |               |               |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)                           |               |                          |              |               |   |                           |               |        |              | DATE: FEBRUARY 2002 |        |              |               |
|--|---------------|--------------------------|--------------|---------------|---|---------------------------|---------------|--------|--------------|---------------------|--------|--------------|---------------|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |               |                          |              |               | P-1 NOMENCLATURE:<br>405 TRANSPORTABLE RADIO TEST STATION |                           |               |        |              |                     |        |              |               |
| WEAPON SYSTEM<br>COST ELEMENTS                                       | IDENT<br>CODE |                          |              |               | FY2001  |                           |               | FY2002 |              |                     | FY2003 |              |               |
|  |               | QTY                      | UNIT<br>COST | TOTAL<br>COST | QTY   | UNIT<br>COST              | TOTAL<br>COST | QTY    | UNIT<br>COST | TOTAL<br>COST       | QTY    | UNIT<br>COST | TOTAL<br>COST |
|  |               |                          |              |               |   |                           | {7,114}       |        |              | {7,200}             |        |              | {7,100}       |
| 405 TEST PROGRAM SETS (TPS)  |               |                          |              |               | 12  | 350,000                   | 4,200         | 15     | 350,000      | 5,250               | 15     | 350,000      | 5,250         |
| B504 HIGH SPEED DIGITAL TEST SYSTEM                                  | A             |                          |              |               | 1   | 781,000                   | 781           |        |              |                     |        |              |               |
| B507 POWER SUPPLY  | A             |                          |              |               | 1   | 83,000                    | 83            |        |              |                     |        |              |               |
| INDEPENDENT VALIDATION &<br>VERIFICATION                             |               |                          |              |               |   |                           | 600           |        |              | 450                 |        |              | 350           |
| INTERIM CONTRACTOR SUPPORT   |               |                          |              |               |   |                           | 750           |        |              | 800                 |        |              | 800           |
| DATA   |               |                          |              |               |   |                           | 700           |        |              | 700                 |        |              | 700           |
| <b>TOTALS:</b>   |               |                          |              |               |   |                           | 7,114         |        |              | 7,200               |        |              | 7,100         |
| <b>REMARKS:</b>  |               |                          |              |               |   |                           |               |        |              |                     |        |              |               |
|  |               | <b>P-1 ITEM NO</b><br>60 |              |               |   | <b>PAGE NO:</b><br>7 - 35 |               |        |              | Page 1 of 1         |        |              |               |

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| BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)   |      |                          |                 |   |                            |              | DATE: FEBRUARY 2002   |                       |                       |  |
|---|------|--------------------------|-----------------|---|----------------------------|--------------|-----------------------|-----------------------|-----------------------|--|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |      |                          |                 | P-1 NOMENCLATURE:<br>405 TRANSPORTABLE RADIO TEST STATION |                            |              |                       |                       |                       |  |
| ITEM /<br>FISCAL YEAR   | QTY. | UNIT<br>COST             | LOCATION OF PCO | CONTRACT<br>METHOD & TYPE                                 | CONTRACTOR<br>AND LOCATION | AWD.<br>DATE | DATE<br>FIRST<br>DEL. | SPECS<br>AVAIL<br>NOW | DATE<br>REV.<br>AVAIL |  |
| 405 TEST PROGRAM SETS (TPS)   |      |                          |                 |   |                            |              |                       |                       |                       |  |
| FY01  | 12   | 350,000                  | AFMC/WR-ALC     | C/FFP   | MULTIPLE                   | SEP 01       | SEP 02                |                       |                       |  |
| FY02  | 15   | 350,000                  | AFMC/WR-ALC     | C/FFP   | MULTIPLE                   | MAR 02       | MAR 03                | Y                     |                       |  |
| FY03  | 15   | 350,000                  | AFMC/WR-ALC     | C/FFP   | MULTIPLE                   | MAR 03       | MAR 04                | Y                     |                       |  |
| B504 HIGH SPEED DIGITAL TEST SYSTEM   |      |                          |                 |   |                            |              |                       |                       |                       |  |
| FY01  | 1    | 781,000                  | AFMC/WR-ALC     | C/FFP   | ATTI/LONG ISLAND NY        | FEB 01       | JUN 01                |                       |                       |  |
| B507 POWER SUPPLY   |      |                          |                 |   |                            |              |                       |                       |                       |  |
| FY01  | 1    | 83,000                   | AFMC/WR-ALC     | C/FFP   | ATTI/LONG ISLAND NY        | FEB 01       | JUN 01                |                       |                       |  |
| <p><b>REMARKS:</b><br/>                     Competetive contracts with multiple vendors were determined to be most advantageous to the Air Force due to the complexity of the test program sets and software. Quantities and unit costs will be negotiated. Various contracts are available through the following vendors: ATTI, Inc, Hauppauge, NY; TRW, San Bernadino, CA; Warner Robins Air Logistics Center (WR-ALC), Warner Robins, GA; Oklahoma City Air Logistics Center (OC-ALC), Oklahoma City, OK. Multiple awards to existing contracts; award/delivery dates reflect date of first award.</p> |      |                          |                 |   |                            |              |                       |                       |                       |  |
|   |      | <b>P-1 ITEM NO</b><br>60 |                 |   | <b>PAGE NO:</b><br>7 - 36  |              |                       | Page 1 of 1           |                       |  |

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| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>  |                          |               |                           |  |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |                          |               |                           | <b>P-1 NOMENCLATURE:</b><br>TRUCK MOUNTED DEICER |               |                            |               |               |
|  |                          | <b>FY2001</b> | <b>FY2002</b>             | <b>FY2003</b>                                    | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>  |                          |               |                           |  |               |                            |               |               |
| <b>COST</b><br>(in Thousands)  |                          | \$11,581      | \$1,687                   | \$6,906  | \$4,417       | \$3,589                    | \$3,657       | \$4,044       |
| <p><b>Description:</b></p> <p>1. The Truck Mounted Deicer is a truck-mounted unit which provides deicing, anti-icing and hot air blast capabilities. The mobility of the truck and maneuverability of the aerial boom with enclosed cabin enables the two-man crew access to any area on the aircraft which is normally inaccessible from the ground. The enclosed cabin protects personnel from inclement weather and exposure to the fluids, while utilizing a patented nozzle that shoots out a 700 MPH air stream injected with deicing fluid to remove ice and snow from aircraft surfaces. The operation can use a mix of air and liquid or either one alone. The AF will use less fluid (glycol) consumption and enhance AF mission readiness by reducing time necessary to make aircraft mission capable. The following aircraft are supported by this truck-mounted deicer: B-1, B-52, C-5, C-130, C-141, C-17, C-141, E-8, KC-10, and KC-135.</p> <p>2. Failure to procure the Truck Mounted Deicer will severely delay the mission readiness of all unsheltered aircraft on bases located in cold weather climates. Field units do not have enough hangar space to protect mission required aircraft from snow and ice. This requires units to conduct timely aircraft deicing to meet daily operational requirements.</p> <p>3. Items requested in FY03 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><br>60 |               | <b>PAGE NO:</b><br>7 - 37 |  |               | Page 1 of 1                |               |               |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)                           |               |                          |              |               |   |                           |               |        |              | DATE: FEBRUARY 2002 |        |              |               |
|--|---------------|--------------------------|--------------|---------------|---|---------------------------|---------------|--------|--------------|---------------------|--------|--------------|---------------|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |               |                          |              |               | P-1 NOMENCLATURE:<br>TRUCK MOUNTED DEICER |                           |               |        |              |                     |        |              |               |
| WEAPON SYSTEM<br>COST ELEMENTS                                       | IDENT<br>CODE |                          |              |               | FY2001                                    |                           |               | FY2002 |              |                     | FY2003 |              |               |
|  |               | QTY                      | UNIT<br>COST | TOTAL<br>COST | QTY                                       | UNIT<br>COST              | TOTAL<br>COST | QTY    | UNIT<br>COST | TOTAL<br>COST       | QTY    | UNIT<br>COST | TOTAL<br>COST |
|  |               |                          |              |               |   |                           | {11,568}      |        |              | {1,687}             |        |              | {6,896}       |
| DEICER   | A             |                          |              |               | 38  | 240,686                   | 9,146         | 6      | 281,221      | 1,687               | 26     | 265,215      | 6,896         |
| TYPE 1 TRAINING  |               |                          |              |               |   |                           | 94            |        |              |                     |        |              |               |
| AIR PLUS II SYSTEMS UPGRADE  |               |                          |              |               |   |                           | 2,328         |        |              |                     |        |              |               |
| PROTECTIVE COATING   |               |                          |              |               |   |                           | 13            |        |              |                     |        |              | 10            |
| <b>TOTALS:</b>   |               |                          |              |               |   |                           | 11,581        |        |              | 1,687               |        |              | 6,906         |
| <b>REMARKS:</b>  |               |                          |              |               |   |                           |               |        |              |                     |        |              |               |
|  |               | <b>P-1 ITEM NO</b><br>60 |              |               |   | <b>PAGE NO:</b><br>7 - 38 |               |        |              |                     |        | Page 1 of 1  |               |

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| <b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>                   |      |                          |                 |  |                                     |                           | <b>DATE:</b> FEBRUARY 2002 |                       |                       |  |
|--|------|--------------------------|-----------------|--|-------------------------------------|---------------------------|----------------------------|-----------------------|-----------------------|--|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |      |                          |                 | <b>P-1 NOMENCLATURE:</b><br>TRUCK MOUNTED DEICER |                                     |                           |                            |                       |                       |  |
| ITEM /<br>FISCAL YEAR  | QTY. | UNIT<br>COST             | LOCATION OF PCO | CONTRACT<br>METHOD & TYPE                        | CONTRACTOR<br>AND LOCATION          | AWD.<br>DATE              | DATE<br>FIRST<br>DEL.      | SPECS<br>AVAIL<br>NOW | DATE<br>REV.<br>AVAIL |  |
| DEICER   |      |                          |                 |  |                                     |                           |                            |                       |                       |  |
| FY01   | 38   | 240,686                  | AFMC/WR-ALC     | OPT/FFP  | GLOBAL GROUND SUPPORT<br>OLATHE, KS | APR 01                    | AUG 01                     |                       |                       |  |
| FY02   | 6    | 281,221                  | AFMC/WR-ALC     | OPT/FFP  | GLOBAL GROUND SUPPORT<br>OLATHE, KS | MAR 02                    | JUL 02                     | Y                     |                       |  |
| FY03   | 26   | 265,215                  | AFMC/WR-ALC     | OPT/FFP  | GLOBAL GROUND SUPPORT<br>OLATHE, KS | DEC 02                    | JUN 03                     | Y                     |                       |  |
| <b>REMARKS:</b><br>FY01-FY03 are options to basic contract awarded 3 Jun 99. |      |                          |                 |  |                                     |                           |                            |                       |                       |  |
|  |      | <b>P-1 ITEM NO</b><br>60 |                 |  |                                     | <b>PAGE NO:</b><br>7 - 39 |                            | Page 1 of 1           |                       |  |

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| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>  |                          |               |                           |  |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |                          |               |                           | <b>P-1 NOMENCLATURE:</b><br>JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER |               |                            |               |               |
|  |                          | <b>FY2001</b> | <b>FY2002</b>             | <b>FY2003</b>  | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>  |                          |               |                           |  |               |                            |               |               |
| <b>COST</b><br>(in Thousands)  |                          | \$17,127      | \$24,072                  | \$5,400  | \$0           | \$0                        | \$0           | \$0           |
| <p><b>Description:</b></p> <p>1. The Joint Service Electronic Combat System Tester (JSECST) is a flight line end-to-end (ETE) 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 in engineering manufacturing development (EMD) were procured with RDT&amp;E funds, documented in the Air Force Descriptive Summaries in PE 64270F. FY03 funding continues support of this tester by procuring test program sets (TPSs) only. This tester supports the following Air Force aircraft: A-10, F-15, and F-16.</p> <p>2. The Combat Air Forces 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 generation rate.</p> <p>3. Items requested in FY03 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><br>60 |               | <b>PAGE NO:</b><br>7 - 40 |  | Page 1 of 1   |                            |               |               |

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| <b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)</b>  |               |                          |              |               |  |                           |               |        |              | <b>DATE:</b> FEBRUARY 2002 |        |              |               |
|--|---------------|--------------------------|--------------|---------------|--|---------------------------|---------------|--------|--------------|----------------------------|--------|--------------|---------------|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |               |                          |              |               | <b>P-1 NOMENCLATURE:</b><br>JOINT SERVICE ELECTRONIC COMBAT SYSTEMS TESTER |                           |               |        |              |                            |        |              |               |
| WEAPON SYSTEM<br>COST ELEMENTS   | IDENT<br>CODE |                          |              |               | FY2001   |                           |               | FY2002 |              |                            | FY2003 |              |               |
|  |               | QTY                      | UNIT<br>COST | TOTAL<br>COST | QTY  | UNIT<br>COST              | TOTAL<br>COST | QTY    | UNIT<br>COST | TOTAL<br>COST              | QTY    | UNIT<br>COST | TOTAL<br>COST |
| JSECST   | A             |                          |              |               | 56   | 184,111                   | 10,310        | 65     | 177,220      | 11,519                     |        |              |               |
| TEST PROGRAM SETS (TPS)  |               |                          |              |               | 83   | 65,000                    | 5,395         | 135    | 88,911       | 12,003                     | 60     | 85,833       | 5,150         |
| PRODUCTION NON-RECURRING   |               |                          |              |               |  |                           | 1,422         |        |              | 550                        |        |              | 250           |
| <b>TOTALS:</b>   |               |                          |              |               |  |                           | 17,127        |        |              | 24,072                     |        |              | 5,400         |
| <b>REMARKS:</b><br>The Air Force and the Navy are buying the same core JSECST Test Sets; however, each service has specific Test Program Set (TPS) requirements. TPS price varies dependent on aircraft. Production Non-Recurring includes final tech orders, provisioning, production acceptance TPS, production refurbishment, Type 1 training, parts obsolescence, etc. |               |                          |              |               |  |                           |               |        |              |                            |        |              |               |
|  |               | <b>P-1 ITEM NO</b><br>60 |              |               |  | <b>PAGE NO:</b><br>7 - 41 |               |        |              | Page 1 of 1                |        |              |               |

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| <b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>                  |      |                          |                 |  |                           |                           | <b>DATE:</b> FEBRUARY 2002 |                 |                 |             |
|---|------|--------------------------|-----------------|--|---------------------------|---------------------------|----------------------------|-----------------|-----------------|-------------|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |      |                          |                 | <b>P-1 NOMENCLATURE:</b><br>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  | 56   | 184,111                  | AFMC/ASC        | SS/FFP   | AAI CORP, HUNT VALLEY, MD | AUG 01                    | JAN 03                     |                 |                 |             |
| FY02  | 65   | 177,220                  | AFMC/ASC        | SS/FFP   | AAI CORP, HUNT VALLEY, MD | JUN 02                    | JAN 04                     | Y               |                 |             |
| <b>REMARKS:</b>   |      |                          |                 |  |                           |                           |                            |                 |                 |             |
|   |      | <b>P-1 ITEM NO</b><br>60 |                 |  |                           | <b>PAGE NO:</b><br>7 - 42 |                            |                 |                 | Page 1 of 1 |

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| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>  |  |                           |               |  |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |  |                           |               | <b>P-1 NOMENCLATURE:</b><br>MAINTENANCE PLATFORM, HIGH REACH |               |                            |               |               |
|  |  | <b>FY2001</b>             | <b>FY2002</b> | <b>FY2003</b>  | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>  |  |                           |               |  |               |                            |               |               |
| <b>COST</b><br>(in Thousands)  |  | \$5,246                   | \$4,796       | \$5,036  | \$8,593       | \$0                        | \$0           | \$0           |
| <p><b>Description:</b></p> <p>1. The Maintenance Platform, High Reach, is a completely self-contained, hydraulically operated unit mounted on a truck type carrier. The aerial lift consists of main components such as a turret, inner and outer columns, inner and outer boom and platform. The inner and outer boom and platform are assembled to form an integrated mechanical structure, providing for vertical and horizontal movement. The boom assembly can be extended to a maximum height of 125 feet and has a maximum horizontal reach of 60 feet when the boom is extended to 72 feet. Capacity of the platform is 1,500 lbs. Item is used to work on, remove and install the stabilizer on the C-17 and C-5 aircraft. This item is also used as a deicer on large aircraft. This item is essential in supporting rapid global mobility as there is no acceptable work around in the Air Force inventory for deicing the tail sections of the C-5s and C-17s. The horizontal and vertical stabilizers, as well as the flight control surfaces of these aircraft are located in the tail section. Major US Air Force weapon systems supported by this item include the C-5, C-130, and C-17.</p> <p>2. The High Reach Platform is used for a multitude of maintenance activities. Without the High Reach Maintenance Platform, maintenance and/or overhaul on the C-17/C-5 aircraft (including minor structural repair, component removal/replacement, inspection, lubrication, ground testing, rigging, cleaning, and corrosion controls) will be slowed and delayed awaiting existing lift equipment. Furthermore, all deicing trucks presently in the Air Force inventory are only capable of extending to a vertical distance of about 47 feet. The High Reach Platform, by way of hook-up to a deicing truck, provides exclusive means of deicing the tail sections of C-5s and C-17s. The lack of this item will prevent deicing and will ground the C-5 and C-17 aircraft during the winter months and greatly reduces mission capable status throughout the year.</p> <p>3. Items requested in FY03 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><br>60   |  | <b>PAGE NO:</b><br>7 - 43 |               |  |               |                            | Page 1 of 1   |               |

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| <b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>      |            |                          |      |  |         |                           | <b>DATE:</b> FEBRUARY 2002 |             |         |
|---|------------|--------------------------|------|--|---------|---------------------------|----------------------------|-------------|---------|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |            |                          |      | <b>P-1 NOMENCLATURE:</b><br>MAINTENANCE PLATFORM, HIGH REACH |         |                           |                            |             |         |
| PROCUREMENT ITEMS   | ID<br>CODE |                          |      | FY2001   |         | FY2002                    |                            | FY2003      |         |
|   |            | QTY.                     | COST | QTY.   | COST    | QTY.                      | COST                       | QTY.        | COST    |
| HIGH REACH  | A          |                          |      | 9  | \$5,246 | 8                         | \$4,796                    | 8           | \$5,036 |
| <b>Totals:</b>  |            |                          |      |  | \$5,246 |                           | \$4,796                    |             | \$5,036 |
| <b>Remarks:</b>   |            |                          |      |  |         |                           |                            |             |         |
|   |            | <b>P-1 ITEM NO</b><br>60 |      |  |         | <b>PAGE NO:</b><br>7 - 44 |                            | Page 1 of 1 |         |

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| <b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>                  |      |                          |                 |  |                              |              | <b>DATE:</b> FEBRUARY 2002 |                       |                       |  |
|---|------|--------------------------|-----------------|--|------------------------------|--------------|----------------------------|-----------------------|-----------------------|--|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |      |                          |                 | <b>P-1 NOMENCLATURE:</b><br>MAINTENANCE PLATFORM, HIGH REACH |                              |              |                            |                       |                       |  |
| ITEM /<br>FISCAL YEAR   | QTY. | UNIT<br>COST             | LOCATION OF PCO | CONTRACT<br>METHOD & TYPE                                    | CONTRACTOR<br>AND LOCATION   | AWD.<br>DATE | DATE<br>FIRST<br>DEL.      | SPECS<br>AVAIL<br>NOW | DATE<br>REV.<br>AVAIL |  |
| HIGH REACH  |      |                          |                 |  |                              |              |                            |                       |                       |  |
| FY01  | 9    | 582,894                  | AFMC/WR-ALC     | MIPR/OPT/FPE   | DLA/TIME CONDOR CORP WACO TX | MAR 01       | AUG 01                     |                       |                       |  |
| FY02  | 8    | 599,550                  | AFMC/WR-ALC     | MIPR/OPT/FPE   | DLA/TIME CONDOR CORP WACO TX | MAR 02       | MAR 03                     | Y                     |                       |  |
| FY03  | 8    | 629,528                  | AFMC/WR-ALC     | MIPR/OPT/FPE   | DLA/TIME CONDOR CORP WACO TX | MAR 03       | MAR 04                     | Y                     |                       |  |
| <b>REMARKS:</b>   |      |                          |                 |  |                              |              |                            |                       |                       |  |
|   |      | <b>P-1 ITEM NO</b><br>60 |                 |  | <b>PAGE NO:</b><br>7 - 45    |              |                            | Page 1 of 1           |                       |  |

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| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>  |                          |               |               |  |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |                          |               |               | <b>P-1 NOMENCLATURE:</b><br>ELECTRONIC SYSTEM TEST STATION |               |                            |               |               |
|  |                          | <b>FY2001</b> | <b>FY2002</b> | <b>FY2003</b>  | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>  |                          |               |               |  |               |                            |               |               |
| <b>COST</b><br>(in Thousands)  |                          | \$15,212      | \$11,525      | \$5,000  | \$5,000       | \$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 performs 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 (TPS) 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 two pallets to deploy in lieu of the 22 pallets required by the current Avionics Intermediate Shop (AIS) it replaces. It offers increased reliability, maintainability and reduced test cycle times. FY03 requirement is for ESTS Interim Contractor Support and organic repair support start-up costs. The ESTS supports the following Air Force aircraft: F/TF-15 A/B/C/D/E.</p> <p>2. The existing F-15 AIS (developed in the early 1970s) contains obsolete electronic components and has become increasingly unsupportable. The older AIS test stations cannot accommodate existing workloads in high operational tempos 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 is now technologically outdated and virtually impossible to deploy. Procurement of the Electronic System Test Station will eliminate a major cause of downtime and thereby increasing aircraft readiness.</p> <p>3. Items requested in FY03 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><br>60 |               |               | <b>PAGE NO:</b><br>7 - 46                                  |               | Page 1 of 1                |               |               |

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| <b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)</b>  |               |                          |              |               |        |  |               |        |              |               |        | <b>DATE:</b> FEBRUARY 2002 |               |  |
|--|---------------|--------------------------|--------------|---------------|--------|--|---------------|--------|--------------|---------------|--------|----------------------------|---------------|--|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |               |                          |              |               |        | <b>P-1 NOMENCLATURE:</b><br>ELECTRONIC SYSTEM TEST STATION |               |        |              |               |        |                            |               |  |
| WEAPON SYSTEM<br>COST ELEMENTS   | IDENT<br>CODE |                          |              |               | FY2001 |  |               | FY2002 |              |               | FY2003 |                            |               |  |
|  |               | QTY                      | UNIT<br>COST | TOTAL<br>COST | QTY    | UNIT<br>COST   | TOTAL<br>COST | QTY    | UNIT<br>COST | TOTAL<br>COST | QTY    | UNIT<br>COST               | TOTAL<br>COST |  |
|  |               |                          |              |               |        |  | {15,212}      |        |              | {11,525}      |        |                            | {5,000}       |  |
| ESTS   | A             |                          |              |               |        |  |               |        |              |               |        |                            |               |  |
| INTERIM CONTRACTOR SUPPORT (1)   |               |                          |              |               |        |  | 11,274        |        |              | 10,275        |        |                            | 5,000         |  |
| GOVERNMENT FURNISHED EQUIPMENT<br>REPAIR / REFURBISH (2)   |               |                          |              |               |        |  | 1,000         |        |              |               |        |                            |               |  |
| ESTS OVER & ABOVE COSTS(4)   |               |                          |              |               |        |  | 1,481         |        |              |               |        |                            |               |  |
| USER TRIALS/MATURATION TEST<br>SUPPORT(3)  |               |                          |              |               |        |  | 1,457         |        |              | 1,250         |        |                            |               |  |
| <b>TOTALS:</b>   |               |                          |              |               |        |  | 15,212        |        |              | 11,525        |        |                            | 5,000         |  |
| <b>REMARKS:</b>  |               |                          |              |               |        |  |               |        |              |               |        |                            |               |  |
| <ol style="list-style-type: none"> <li>1. Interim Contractor Support provides 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.</li> <li>2. Repair/refurbish GFE failures during testing.</li> <li>3. For contractor support in running the various Line Replaceable Units (LRU) across the test station, as well as identifying problems with the LRU's, the test station and any other ancillary equipment associated with the overall system.</li> <li>4. Refurbishment, including repair and calibration, of all Government-owned testers authorized for use during TPS Development, Integration, and System Test and Evaluation.</li> </ol> |               |                          |              |               |        |  |               |        |              |               |        |                            |               |  |
|  |               | <b>P-1 ITEM NO</b><br>60 |              |               |        | <b>PAGE NO:</b><br>7 - 47                                  |               |        |              | Page 1 of 1   |        |                            |               |  |

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|--|--|---------------------------|---------------|--|---------------|----------------------------|---------------|---------------|
| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>  |  |                           |               |  |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |  |                           |               | <b>P-1 NOMENCLATURE:</b><br>RACKMOUNT IMPROVED AVIONICS INTERMEDIATE SHOP TEST STATION |               |                            |               |               |
|  |  | <b>FY2001</b>             | <b>FY2002</b> | <b>FY2003</b>  | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>  |  |                           |               |  |               |                            |               |               |
| <b>COST</b><br>(in Thousands)  |  | \$0                       | \$0           | \$10,078   | \$10,270      | \$10,485                   | \$10,706      | \$0           |
| <p><b>Description:</b></p> <p>1. The Rackmount Improved Avionics Intermediate Shop (R-IAIS) is a controlled test station that provides performance and diagnostic testing of F-16 avionics line replaceable units (LRUs). The current suite of test equipment takes over 8 pallet positions to deploy. The R-IAIS requires only one pallet position to deploy. The R-IAIS consists of an interface unit, control and display unit, instrument units, microwave stimulus unit, microwave measurement unit, power control unit, power supply unit, blower unit, refrigeration unit, frequency changer unit and optical test bench, and can utilize a commercial off the shelf computer system. The R-IAIS will replace the F-16 full size avionics intermediate shop (AIS) test stations ( Displays Indicator, Computer Inertial, Pneumatic Processor and Radio Frequency) which are 17 years old and are becoming obsolete and unsupported due to outdated technology and disappearing vendors. It will increase capability, reduce equipment down time, and enhance the maintainers trouble-shooting capabilities. FY03 procurement begins a total replacement program of the current F-16 AIS.</p> <p>2. The cost of maintaining the aging AIS test stations has become uneconomical. Maintainability of the F-16 aircraft is becoming increasingly difficult using obsolete and outdated support equipment. The older test stations are becoming unable to accommodate the required testing and are subject to malfunctioning which in turn increases the number of grounded aircraft. The mobile tester will significantly reduce supportability requirements while increasing maintenance capabilities.</p> <p>3. Items requested in FY03 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><br>60   |  | <b>PAGE NO:</b><br>7 - 48 |               |  |               |                            | Page 1 of 1   |               |

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| <b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b>      |            |                   |      |  |      |                    | <b>DATE:</b> FEBRUARY 2002 |             |          |
|---|------------|-------------------|------|--|------|--------------------|----------------------------|-------------|----------|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |            |                   |      | <b>P-1 NOMENCLATURE:</b><br>RACKMOUNT IMPROVED AVIONICS INTERMEDIATE SHOP TEST STATION |      |                    |                            |             |          |
| PROCUREMENT ITEMS   | ID<br>CODE |                   |      | FY2001   |      | FY2002             |                            | FY2003      |          |
|   |            | QTY.              | COST | QTY.   | COST | QTY.               | COST                       | QTY.        | COST     |
| R-IAIS  | A          |                   |      |  |      |                    |                            | 2           | \$10,078 |
| <b>Totals:</b>  |            |                   |      |  |      |                    |                            |             | \$10,078 |
| <b>Remarks:</b>   |            |                   |      |  |      |                    |                            |             |          |
|   |            | P-1 ITEM NO<br>60 |      |  |      | PAGE NO:<br>7 - 49 |                            | Page 1 of 1 |          |

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| <b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>                  |      |                          |                 |  |                            |                           | <b>DATE:</b> FEBRUARY 2002 |                       |                       |  |
|---|------|--------------------------|-----------------|--|----------------------------|---------------------------|----------------------------|-----------------------|-----------------------|--|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |      |                          |                 | <b>P-1 NOMENCLATURE:</b><br>RACKMOUNT IMPROVED AVIONICS INTERMEDIATE SHOP TEST STATION |                            |                           |                            |                       |                       |  |
| ITEM /<br>FISCAL YEAR   | QTY. | UNIT<br>COST             | LOCATION OF PCO | CONTRACT<br>METHOD & TYPE  | CONTRACTOR<br>AND LOCATION | AWD.<br>DATE              | DATE<br>FIRST<br>DEL.      | SPECS<br>AVAIL<br>NOW | DATE<br>REV.<br>AVAIL |  |
| R-IAIS  |      |                          |                 |  |                            |                           |                            |                       |                       |  |
| FY03  | 2    | 5039054                  | AFMC/OO-ALC     | SS/FFP   | BAE SYSTEMS, SAN DIEGO, CA | NOV 02                    | DEC 03                     | Y                     |                       |  |
| <b>REMARKS:</b>   |      |                          |                 |  |                            |                           |                            |                       |                       |  |
|   |      | <b>P-1 ITEM NO</b><br>60 |                 |  |                            | <b>PAGE NO:</b><br>7 - 50 | Page 1 of 1                |                       |                       |  |

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|--|--------------------------|---------------|---------------------------|---|---------------|----------------------------|---------------|---------------|
| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>  |                          |               |                           |   |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |                          |               |                           | <b>P-1 NOMENCLATURE:</b><br>ADVANCED DIGITAL TEST STATION |               |                            |               |               |
|  |                          | <b>FY2001</b> | <b>FY2002</b>             | <b>FY2003</b>   | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>  |                          |               |                           |   |               |                            |               |               |
| <b>COST</b><br>(in Thousands)  |                          | \$0           | \$0                       | \$16,908  | \$31,366      | \$36,624                   | \$14,013      | \$4,768       |
| <p><b>Description:</b></p> <p>1. The Advanced Digital Test Station (ADTS) is a single Commercial Off The Shelf (COTS) system which replaces 1970s vintage Digital Analog Video (DAV) and Digital (DIG) Test Sets which are becoming unsupportable due to obsolescence. The ADTS will be fully automated, programmable, stimulus generating, response measuring, intermediate automatic test equipment providing checkout, alignment, and fault isolation of 134 avionics Line Replaceable Units. This test station supports the B-1 weapons system.</p> <p>2. Failure to provide funding for the Advanced Digital Test Station will cause the B-1 weapons system to suffer mission capable impacts due to non-availability of serviceable assets. The Combat Air Forces considers ADTS a top priority procurement item. The automatic test equipment (ATE) presently used to support the B-1 Line Replaceable Unit (LRU)/Shop Replaceable Unit (SRU) trouble shooting and repair is no longer supportable due to diminished manufacturing sources and obsolescence caused by age of the equipment. The current ATE mission capable rate is near 50% and there is a two-year testing backlog forcing excessive cannibalization of serviceable assets between aircraft.</p> <p>3. Items requested in FY03 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><br>60 |               | <b>PAGE NO:</b><br>7 - 51 |   |               | Page 1 of 1                |               |               |

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| WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)                           |               |                          |              |               |  |                           |               |        |              | DATE: FEBRUARY 2002 |        |              |               |  |
|--|---------------|--------------------------|--------------|---------------|--|---------------------------|---------------|--------|--------------|---------------------|--------|--------------|---------------|--|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |               |                          |              |               | P-1 NOMENCLATURE:<br>ADVANCED DIGITAL TEST STATION |                           |               |        |              |                     |        |              |               |  |
| WEAPON SYSTEM<br>COST ELEMENTS                                       | IDENT<br>CODE |                          |              |               | FY2001   |                           |               | FY2002 |              |                     | FY2003 |              |               |  |
|  |               | QTY                      | UNIT<br>COST | TOTAL<br>COST | QTY  | UNIT<br>COST              | TOTAL<br>COST | QTY    | UNIT<br>COST | TOTAL<br>COST       | QTY    | UNIT<br>COST | TOTAL<br>COST |  |
| ADV DIGITAL TEST STATION   | A             |                          |              |               |  |                           |               |        |              |                     | 4      | 1500000      | 6,000         |  |
| TEST PROGRAM SETS (TPS)  |               |                          |              |               |  |                           |               |        |              |                     | 134    | 59701        | 8,000         |  |
| TEST PROGRM SETS (TPS) COPIES/ITAS                                   |               |                          |              |               |  |                           |               |        |              |                     | 23     | 72087        | 1,658         |  |
| INDEPENDENT VALIDATION &<br>VERIFICATION                             |               |                          |              |               |  |                           |               |        |              |                     |        |              | 250           |  |
| INTERIM CONTRACT SUPPORT   |               |                          |              |               |  |                           |               |        |              |                     |        |              | 1000          |  |
| <b>TOTALS:</b>   |               |                          |              |               |  |                           |               |        |              |                     |        |              | 16,908        |  |
| <b>REMARKS:</b>  |               |                          |              |               |  |                           |               |        |              |                     |        |              |               |  |
|  |               | <b>P-1 ITEM NO</b><br>60 |              |               |  | <b>PAGE NO:</b><br>7 - 52 |               |        |              | Page 1 of 1         |        |              |               |  |

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| <b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b>                  |      |                          |                 |   |                            |              | <b>DATE:</b> FEBRUARY 2002 |                       |                       |  |
|---|------|--------------------------|-----------------|---|----------------------------|--------------|----------------------------|-----------------------|-----------------------|--|
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |      |                          |                 | <b>P-1 NOMENCLATURE:</b><br>ADVANCED DIGITAL TEST STATION |                            |              |                            |                       |                       |  |
| ITEM /<br>FISCAL YEAR   | QTY. | UNIT<br>COST             | LOCATION OF PCO | CONTRACT<br>METHOD & TYPE                                 | CONTRACTOR<br>AND LOCATION | AWD.<br>DATE | DATE<br>FIRST<br>DEL.      | SPECS<br>AVAIL<br>NOW | DATE<br>REV.<br>AVAIL |  |
| ADV DIGITAL TEST STATION  |      |                          |                 |   |                            |              |                            |                       |                       |  |
| FY03  | 4    | 1500000                  | AFMC/OC-ALC     | C/FFP   | UNKNOWN                    | DEC 02       | DEC 03                     | Y                     |                       |  |
| <b>REMARKS:</b>   |      |                          |                 |   |                            |              |                            |                       |                       |  |
|   |      | <b>P-1 ITEM NO</b><br>60 |                 |   | <b>PAGE NO:</b><br>7 - 53  | Page 1 of 1  |                            |                       |                       |  |

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|--|--------------------------|---------------|---------------------------|---|---------------|----------------------------|---------------|---------------|
| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>  |                          |               |                           |   |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)  |                          |               |                           | <b>P-1 NOMENCLATURE:</b><br>ITEMS LESS THAN \$5,000,000 |               |                            |               |               |
|  |                          | <b>FY2001</b> | <b>FY2002</b>             | <b>FY2003</b>   | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>  |                          |               |                           |   |               |                            |               |               |
| <b>COST</b><br>(in Thousands)  |                          | \$69,149      | \$93,350                  | \$30,601  | \$65,604      | \$50,162                   | \$55,178      | \$60,695      |
| <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 equipment over the life of a weapon system, and consists 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 FY03 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 current Air Force mission requirements.</p> |                          |               |                           |   |               |                            |               |               |
|  | <b>P-1 ITEM NO</b><br>60 |               | <b>PAGE NO:</b><br>7 - 54 |   | Page 1 of 1   |                            |               |               |

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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)   |                 |  |      | DATE: FEBRUARY 2002 |         |
|--|-----------------|--|------|---------------------|---------|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |                 | P-1 NOMENCLATURE:<br>ITEMS LESS THAN \$5,000,000 |      |                     |         |
| PROCUREMENT ITEMS  | NSN             |  |      | FY2003              |         |
|  |                 | QTY.   | COST | QTY.                | COST    |
| MAJOR PROCUREMENTS   |                 |  |      |                     |         |
| C-5 ISOCHRONIC MAINTENANCE PLATFORM                                  | 1730001573976RN |  |      | 1                   | \$4,085 |
| TRUCK, LIFT, AERIAL  | 1730014462422RN |  |      | 20                  | \$1,660 |
| B-1B, CONVENTIONAL BOMB MODULE TEST SET (CBMTS)                      | 4920014574152EK |  |      | 5                   | \$4,418 |
| MAINTENANCE PLATFORM   | 1730001583039RN |  |      | 1                   | \$1,775 |
| NOISE SUPPRESSOR SYS   | 4920010821095RN |  |      | 1                   | \$3,785 |
| STORES RELEASE TEST SET  | 4920013021169WF |  |      | 5                   | \$1,512 |
| 105 BENCHTOP RECONFIGURABLE AUTOMATIC TESTER (BRAT)                  | 6625014560079KV |  |      | 2                   | \$2,582 |
| DIESEL GENERATOR SET   | 6115013894093ID |  |      | 34                  | \$2,439 |
| PRELOAD ARMAMENT TEST SET  | 4920013016273WF |  |      | 10                  | \$1,563 |
| AIR CONDITIONER  | 4120013079127RN |  |      | 11                  | \$2,169 |
| MINOR PROCUREMENTS (GROUPED BY FEDERAL SUPPLY CLASS (FSC))           |                 |  |      |                     |         |
| FSC 1450 GUIDED MISSILE HANDLING AND SERVICING EQUIPMENT             |                 |  |      |                     | \$22    |
| FSC 1730 AIRCRAFT GROUND SERVICING EQUIPMENT                         |                 |  |      |                     | \$780   |
| P-1 ITEM NO<br>60  |                 | PAGE NO:<br>7 - 55                               |      | Page 1 of 3         |         |

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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)                               |                          |  |                           | DATE: FEBRUARY 2002 |             |
|--|--------------------------|--|---------------------------|---------------------|-------------|
| APPROP CODE/BA:<br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I)                             |                          | P-1 NOMENCLATURE:<br>ITEMS LESS THAN \$5,000,000 |                           |                     |             |
| PROCUREMENT ITEMS  | NSN                      |  |                           | FY2003              |             |
|  |                          | QTY.   | COST                      | QTY.                | COST        |
| FSC 1740 AIRFIELD SPECIALIZED TRUCKS AND TRAILERS  |                          |  |                           |                     | \$34        |
| FSC 2330 TRAILERS  |                          |  |                           |                     | \$102       |
| FSC 3655 GAS GENERATING AND DISPENSING SYSTEMS, FIXED OR MOBILE                                  |                          |  |                           |                     | \$183       |
| FSC 3950 WINCHES, HOISTS, CRANES AND DERRICKS  |                          |  |                           |                     | \$42        |
| FSC 4120 AIR CONDITIONING EQUIPMENT  |                          |  |                           |                     | \$74        |
| FSC 4310 COMPRESSORS AND VACUUM PUMPS  |                          |  |                           |                     | \$54        |
| FSC 4320 POWER AND HAND PUMPS  |                          |  |                           |                     | \$52        |
| FSC 4510 PLUMBING FIXTURES AND ACCESSORIES   |                          |  |                           |                     | \$85        |
| FSC 4520 SPACE HEATING EQUIPMENT AND DOMESTIC WATER HEATERS                                      |                          |  |                           |                     | \$46        |
| FSC 4920 AIRCRAFT MAINTENANCE AND REPAIR SHOP SPECIALIZED EQUIPMENT, EXCEPT AIRBORNE ELECTRONICS |                          |  |                           |                     | \$1,008     |
| FSC 4930 LUBRICATION AND FUEL DISPENSING EQUIPMENT   |                          |  |                           |                     | \$115       |
| FSC 5180 SETS, KITS, AND OUTFITS OF HAND TOOLS   |                          |  |                           |                     | \$98        |
| FSC 5210 MEASURING TOOLS, CRAFTMAN   |                          |  |                           |                     | \$24        |
| FSC 5220 INSPECTION GAGES AND PRECISION LAYOUT TOOLS   |                          |  |                           |                     | \$41        |
| FSC 6130 CONVERTERS, ELECTRICAL, NONROTATING   |                          |  |                           |                     | \$80        |
| FSC 6625 ELECTRICAL AND ELECTRONIC PROPERTIES MEASURING AND TESTING INSTRUMENT                   |                          |  |                           |                     | \$845       |
| FSC 6635 PHYSICAL PROPERTIES TESTING EQUIPMENT   |                          |  |                           |                     | \$15        |
| FSC 6650 OPTICAL INSTRUMENTS   |                          |  |                           |                     | \$14        |
|  | <b>P-1 ITEM NO</b><br>60 |  | <b>PAGE NO:</b><br>7 - 56 |                     | Page 2 of 3 |

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| <b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)</b>   |                          |      |   | <b>DATE: FEBRUARY 2002</b> |             |
| <b>APPROP CODE/BA:</b><br>APAF/AIRCRAFT REPLACEMENT SUPPORT EQUIPMENT (O&I) |                          |      | <b>P-1 NOMENCLATURE:</b><br>ITEMS LESS THAN \$5,000,000 |                            |             |
| <b>PROCUREMENT ITEMS</b>  | NSN                      |      |   | FY2003                     |             |
|   |                          | QTY. | COST  | QTY.                       | COST        |
| FSC 6685 HAZARD DETECTING INSTRUMENTS AND APPARATUS                         |                          |      |   |                            | \$71        |
| NSL NON-STOCKLISTED   |                          |      |   |                            | \$828       |
| <b>TOTALS:</b>  |                          |      |   |                            | \$30,601    |
|   |                          |      |   |                            |             |
|   | <b>P-1 ITEM NO</b><br>60 |      | <b>PAGE NO:</b><br>7 - 57                               |                            | Page 3 of 3 |

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**FY 2003 BUDGET ESTIMATES**  
**BP 13 – POST PRODUCTION SUPPORT**  
**FEBRUARY 2002**

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
|--|---------------------|

|   |   |
|---|---|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 61</b> | P-1 Line Item Nomenclature<br><b>A-10 Post Prod Support</b> |
|---|---|

| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         |         |  |         |       |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|--|---------|-------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |  | To Comp | Total |
| Proc Qty                          | A       |             |         |         |                                 |         |         |         |         |  |         |       |
| Total Proc Cost (\$ M)            |         |             | 2.200   | 0.000   | 0.000                           | 0.000   | 0.000   | 0.000   | 0.000   |  |         | 2.200 |

**Description**  
 FY03-07 budget numbers do not reflect the DoD strategic review results.

This activity name has changed from Unit Training Devices (UDTs) to Full Mission Trainer (FMT).

This activity funds required Full Mission Trainers 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 FMT 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.

**FY 2003 Program Justification**

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|   |                     |
|---|---------------------|
| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
|---|---------------------|

|   |   |
|---|---|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 61</b> | P-1 Line Item Nomenclature<br><b>A-10 Post Prod Support</b> |
|---|---|

|  |              |
|--|--------------|
| Manufacturer's Name/Plant City/State Location<br>Lockheed Martin Technology Services, Mesa, AZ | Subline Item |
|--|--------------|

| Weapon System Cost Elements                       | Ident Code | Total Cost In Millions of Dollars |           |              |         |           |            |         |           |            |
|---|------------|-----------------------------------|-----------|--------------|---------|-----------|------------|---------|-----------|------------|
|   |            | FY 2001                           |           |              | FY 2002 |           |            | FY 2003 |           |            |
|   |            | 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          | 1                                 |           | 2.200        |         |           |            |         |           |            |
| Publications/Technical Data                       | A          |                                   |           |              |         |           |            |         |           |            |
| ECOs  | A          |                                   |           |              |         |           |            |         |           |            |
| Other   | A          |                                   |           |              |         |           |            |         |           |            |
| SUPPORT COST SUBTOTAL                             | A          |                                   |           | 2.200        |         |           |            |         |           |            |
| <b>TOTAL PROGRAM</b>                              |            |                                   |           | <b>2.200</b> |         |           |            |         |           |            |

**Comments**

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| <b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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|---|---|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 61</b> | P-1 Line Item Nomenclature<br><b>A-10 Post Prod Support</b> |
|---|---|

**Weapon System A-10**

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

| Fin Plan | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | Total  |
|----------|---------|---------|---------|---------|---------|---------|---------|--------|
| Proc     |         | 2.200   |         | 26.990  | 25.330  | 33.950  | 1.600   | 90.070 |

**TRAINING SYSTEM DESCRIPTION**

This activity funds required Full Mission Trainers 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 FMT 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. 61

Simulator and Training Device Justification (\$ M)

Exhibit P-43 p.1, page 3 of 6

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| <b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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|---|---|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 61</b> | P-1 Line Item Nomenclature<br><b>A-10 Post Prod Support</b> |
|---|---|

**Weapon System A-10**

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

| IOC Date                | SITE       | DELIVERY TIME | READY TRAINING DATE | AVG STUDENT THROUGH PUT | FY 2001 |       | FY 2002 |      | FY 2003 |      |
|-------------------------|------------|---------------|---------------------|-------------------------|---------|-------|---------|------|---------|------|
| TRAINING DEVICE BY TYPE |            |               |                     |                         | QTY     | COST  | QTY     | COST | QTY     | COST |
|                         | A-10 Units |               |                     |                         | 1       | 2.200 |         |      |         |      |
| <b>TOTAL</b>            |            |               |                     |                         | 1       | 2.200 |         |      |         |      |

|                               |  |
|-------------------------------|--|
| P-1 Shopping List Item No. 61 | <b>Simulator and Training Device Justification (\$ M)</b><br>Exhibit P-43 p.2, page 4 of 6 |
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| <b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 61</b> | P-1 Line Item Nomenclature<br><b>A-10 Post Prod Support</b> |
|---|---|

**Weapon System A-10**

**Equipment Nomenclature: Aircrew Trainers**

**Description:**

This activity funds required Full Mission Trainers 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 FMT 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.

| FINANCIAL PLAN | FY 2001 |      | FY 2002 |      | FY 2003 |      | To Complete |      | Total Costs |      |
|----------------|---------|------|---------|------|---------|------|-------------|------|-------------|------|
|                | QTY     | COST | QTY     | COST | QTY     | COST | QTY         | COST | QTY         | COST |

**Hardware Costs**

|                             |   |       |  |  |  |  |    |        |    |        |
|-----------------------------|---|-------|--|--|--|--|----|--------|----|--------|
|                             | 1 | 2.200 |  |  |  |  | 19 | 87.870 | 32 | 96.397 |
| <b>Total Hardware Costs</b> | 1 | 2.200 |  |  |  |  | 19 | 87.870 | 32 | 96.397 |

**Support Costs**

|  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|

**Total Support Costs**

|  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|

|                    |   |       |  |  |  |  |    |        |    |        |
|--------------------|---|-------|--|--|--|--|----|--------|----|--------|
| <b>TOTAL COSTS</b> | 1 | 2.200 |  |  |  |  | 19 | 87.870 | 32 | 96.397 |
|--------------------|---|-------|--|--|--|--|----|--------|----|--------|

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| <b>Exhibit P-43 p.4, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 61</b> | P-1 Line Item Nomenclature<br><b>A-10 Post Prod Support</b> |
|---|---|

**Weapon System A-10**

**Equipment Nomenclature: Maintenance**

**Description:**

This page is not required.

| FINANCIAL PLAN              | FY 2001 |      | FY 2002 |      | FY 2003 |      | To Complete |      | Total Costs |      |
|-----------------------------|---------|------|---------|------|---------|------|-------------|------|-------------|------|
|                             | QTY     | COST | QTY     | COST | QTY     | COST | QTY         | COST | QTY         | COST |
| <b>Hardware Costs</b>       |         |      |         |      |         |      |             |      |             |      |
| <b>Total Hardware Costs</b> |         |      |         |      |         |      |             |      |             |      |
| <b>Support Costs</b>        |         |      |         |      |         |      |             |      |             |      |
| <b>Total Support Costs</b>  |         |      |         |      |         |      |             |      |             |      |
| <b>TOTAL COSTS</b>          |         |      |         |      |         |      |             |      |             |      |

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 62</b> | P-1 Line Item Nomenclature<br><b>B-1 Post Prod Support</b> |
|---|--|

|                                   |         |             |         |         |                                 |         |         |         |               |  |         |        |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------------|--|---------|--------|
| Program Element for Code B Items: |         | N/A         |         |         | Other Related Program Elements: |         |         |         | 64226F,11126F |  |         |        |
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007       |  | To Comp | Total  |
| Proc Qty                          | A       |             |         |         |                                 |         |         |         |               |  |         |        |
| Total Proc Cost (\$ M)            |         |             | 16.500  | 6.400   | 1.969                           | 8.932   | 12.916  | 14.071  | 10.434        |  |         | 71.222 |

**Description**  
Aircraft Post-Production Support (Budget Program 130000)

**FY 2003 Program Justification**  
MISSION AND DESCRIPTION:

Program Definition: Aircraft Post-Production Support (Budget Program 130000):

Provides funding for acquisition of avionics test stations and interface test adapters to improve the test station mission capable rate and reduce the backlog of untested line replaceable units. In addition, the funding provides for acquisition of depot level tooling required to maintain the B-1B, support the aircraft structural integrity program, prevent grounding of the aircraft, and for requirements which were unknown when the aircraft was initially procured.

Note: FY01 funding overstated by \$13.134M due to accounting error with DFAS.

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 62</b> | P-1 Line Item Nomenclature<br><b>B-1 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 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|   |            | 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          |                                   |           | 1.630      |         |           | 6.400      |         |           | 1.999      |
| Engineering Change Orders (ECO)                   | A          |                                   |           |            |         |           |            |         |           |            |
| Nonrecurring Costs                                | A          |                                   |           |            |         |           |            |         |           |            |
| Other Costs                                       | A          |                                   |           |            |         |           |            |         |           |            |
| <b>FLYAWAY COST SUBTOTAL</b>                      | A          |                                   |           | 1.630      |         |           | 6.400      |         |           | 1.999      |
| 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          |                                   |           |            |         |           |            |         |           |            |
| MRSP's / Re provisioning Spares                   | A          |                                   |           |            |         |           |            |         |           |            |
| <b>TOTAL PROGRAM</b>                              |            |                                   |           | 1.630      |         |           | 6.400      |         |           | 1.999      |

**Comments**

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| <b>Exhibit P-40, Budget Item Justification</b>  | Date: February 2002   |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 63</b> | P-1 Line Item Nomenclature<br><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 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |     | To Comp | Total  |
| Proc Qty                          | A       |             |         |         |                                 |         |         |         |         |     |         |        |
| Total Proc Cost (\$ M)            |         |             | 17.487  | 12.397  | 3.279                           | 7.316   | 7.488   | 7.632   | 7.778   |     |         | 63.377 |

**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.

**FY 2003 Program Justification**

The FY 2003 program contains costs associated with peculiar support equipment, s/w investment and program management administrative requirements

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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|---|---|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 63</b> | P-1 Line Item Nomenclature<br><b>B-2A Post Prod Support</b> |
|---|---|

|  |              |
|--|--------------|
| Manufacturer's Name/Plant City/State Location<br>Northrop Grumman CForp., B-2 Division, Pico Rivera, Ca. | Subline Item |
|--|--------------|

| Weapon System Cost Elements                       | Ident Code | Total Cost In Millions of Dollars |           |            |         |           |            |         |           |            |
|---|------------|-----------------------------------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
|   |            | FY 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|   |            | 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          |                                   |           | 4.454      |         |           | 3.700      |         |           |            |
| Other Costs                                       | A          |                                   |           |            |         |           |            |         |           |            |
| <b>FLYAWAY COST SUBTOTAL</b>                      | A          |                                   |           | 4.454      |         |           | 3.700      |         |           |            |
| Airframe Peculiar Ground Support Equipment (PGSE) | A          |                                   |           | 4.100      |         |           | 3.650      |         |           | 1.829      |
| Engine PGSE                                       | A          |                                   |           |            |         |           |            |         |           |            |
| Peculiar Training Equipment                       | A          |                                   |           |            |         |           |            |         |           |            |
| Publications/Technical Data                       | A          |                                   |           | 0.100      |         |           | 3.847      |         |           |            |
| ECOs  | A          |                                   |           |            |         |           |            |         |           |            |
| Other   | A          |                                   |           | 0.500      |         |           | 0.500      |         |           | 0.500      |
| <b>SUPPORT COST SUBTOTAL</b>                      | A          |                                   |           | 4.700      |         |           | 7.997      |         |           | 2.329      |
| <b>S/W INVESTMENT</b>                             | A          |                                   |           | 4.800      |         |           | 0.100      |         |           | 0.050      |
| <b>PROG MGMT AMD REQMTS</b>                       | A          |                                   |           | 3.533      |         |           | 0.600      |         |           | 0.900      |
| <b>TOTAL PROGRAM</b>                              |            |                                   |           | 17.487     |         |           | 12.397     |         |           | 3.279      |

**Comments**

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 64</b> | P-1 Line Item Nomenclature<br><b>B-2B ICS</b> |
|---|---|

| Program Element for Code B Items: |         | N/A11       |         |         | Other Related Program Elements: |         |         |         |         | 11127F |         |         |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|--------|---------|---------|
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |        | To Comp | Total   |
| Proc Qty                          | A       |             |         |         |                                 |         |         |         |         |        |         |         |
| Cost (\$ M)                       |         |             |         |         |                                 |         |         |         |         |        |         |         |
| Interim Ctr Support (\$ M )       |         |             | 40.389  | 36.850  | 33.484                          | 33.362  | 33.780  | 23.105  | 11.837  |        |         | 212.807 |
| Advance Proc Cost (\$ M )         |         |             |         |         |                                 |         |         |         |         |        |         |         |
| Weapon System Cost (\$ M)         |         |             | 40.389  | 36.850  | 33.484                          | 33.362  | 33.780  | 23.105  | 11.837  |        |         | 212.807 |
| Initial Spares (\$ M)             |         |             |         |         |                                 |         |         |         |         |        |         |         |
| Total Proc Cost (\$ M)            |         |             | 40.389  | 36.850  | 33.484                          | 33.362  | 33.780  | 23.105  | 11.837  |        |         | 212.807 |
| Flyaway Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |        |         |         |
| Wpn Sys Unit Cost (\$ M)          |         |             |         |         |                                 |         |         |         |         |        |         |         |

**Description**

Aeronautical Vehicle Interim Contractor Support (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. ICS supports repair of B-2 Aircraft System components and software lab assets. This includes the Line Repairable Units (LRUs), Airframe Structures , Hydro-Mechanical components and Avionics Components.

**FY 2003 Program Justification**

Interim Contractor Support is required in FY03 to meet ACC's Operational Mission Requirements, to include cannibalization rates\*, Mission Capability (MICAP) rates\*\*, Mission Capable (MC) rates\*\*\* and deployment capabilities.

\*Cannibalization means taking an assembly, subassembly, component or part from an end item for use on another end item. \*\*MICAP rate is driven by unsatisfied demand for a component that causes an aircraft or an engine to be non-operational. \*\*\*MC rate is a measure of how long, in percentage, a system can perform at least one of its assigned missions.





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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 65</b> | P-1 Line Item Nomenclature<br><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 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007      | To Comp | Total  |
| Proc Qty                          | A       |             |         |         |                                 |         |         |         |              |         |        |
| Total Proc Cost (\$ M)            |         |             | 1.353   | 1.345   | 10.922                          | 1.354   | 1.353   | 0.000   | 0.000        |         | 16.327 |

**Description**  
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.

**FY 2003 Program Justification**  
Provides interim contract support (ICS) for 109 unique items on C-130H3 aircraft and 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 Source of Repair Assignment Process (SORAP).

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 65</b> | P-1 Line Item Nomenclature<br><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 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|   |            | 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          |                                   |           | 1.353      |         |           | 1.345      |         |           | 10.922     |
| SUPPORT COST SUBTOTAL                             | A          |                                   |           | 1.353      |         |           | 1.345      |         |           | 10.922     |
| TOTAL PROGRAM                                     |            |                                   |           |            |         |           |            |         |           |            |

**Comments**

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 66</b> | P-1 Line Item Nomenclature<br><b>E-4 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 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|                              |            | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| Peculiar Training Equipment  | A          | 1                                 |           | 1.372      |         |           |            |         |           |            |
| Other                        | A          |                                   |           |            |         |           |            |         |           |            |
| <b>SUPPORT COST SUBTOTAL</b> | A          |                                   |           | 1.372      |         |           |            |         |           |            |
| <b>TOTAL PROGRAM</b>         |            |                                   |           | 1.372      |         |           |            |         |           |            |

**Comments**

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| <b>Exhibit P-5A, Procurement History and Planning</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 66</b> | P-1 Line Item Nomenclature<br><b>E-4 Post Prod Support</b> |
|---|--|

|                      |              |
|----------------------|--------------|
| <b>Weapon System</b> | 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   | 1.372     | 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 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 66</b> | P-1 Line Item Nomenclature<br><b>E-4 Post Prod Support</b> |
|---|--|

**Weapon System E-4B**

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

| Fin Plan | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | Total |
|----------|---------|---------|---------|---------|---------|---------|---------|-------|
| Proc     | 1.372   |         |         |         |         |         |         | 1.372 |

**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.

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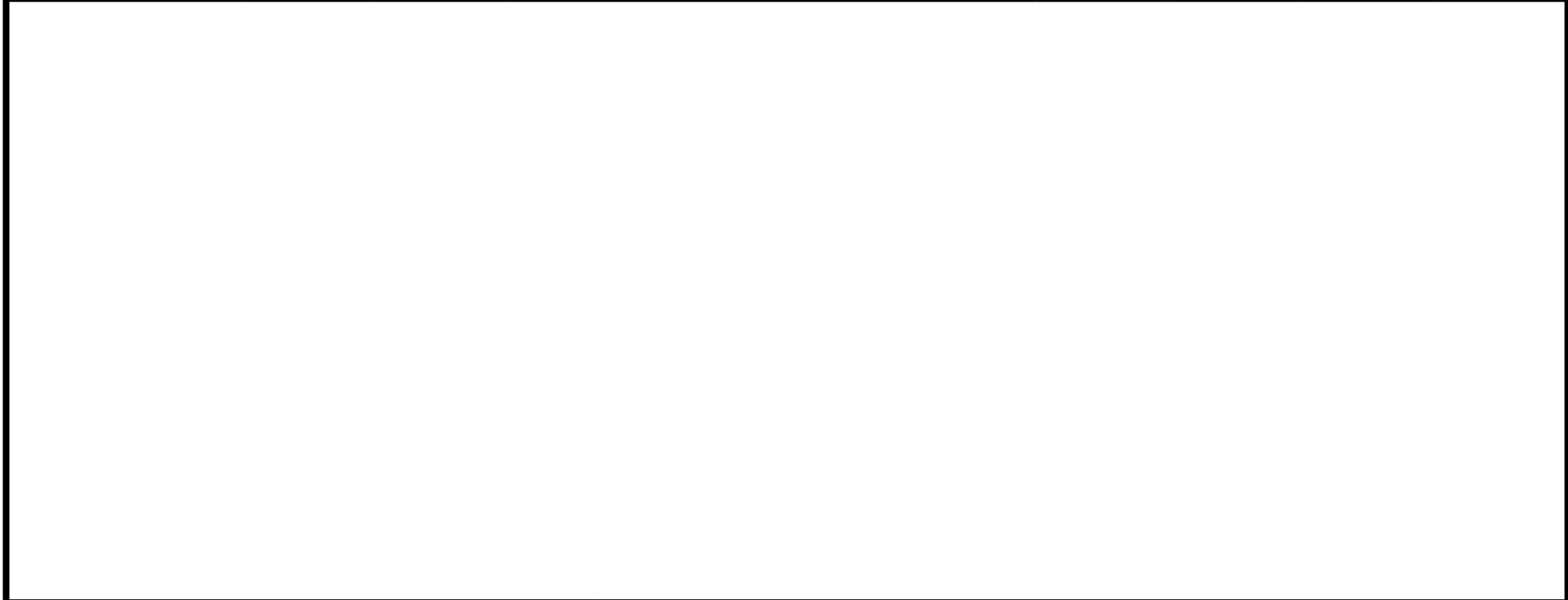
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| <b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 66</b> | P-1 Line Item Nomenclature<br><b>E-4 Post Prod Support</b> |
|---|--|

**Weapon System E-4B**

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

| IOC Date                      |                   |                  |                           |                                  |         |       |         |      |         |      |
|-------------------------------|-------------------|------------------|---------------------------|----------------------------------|---------|-------|---------|------|---------|------|
| TRAINING<br>DEVICE<br>BY TYPE | SITE              | DELIVERY<br>TIME | READY<br>TRAINING<br>DATE | AVG<br>STUDENT<br>THROUGH<br>PUT | FY 2001 |       | FY 2002 |      | FY 2003 |      |
|                               |                   |                  |                           |                                  | QTY     | COST  | QTY     | COST | QTY     | COST |
| AIRCREW                       | Offutt AFB,<br>NE | Sep-01           | Oct-01                    | 60                               | 1       | 1.372 |         |      |         |      |
| <b>TOTAL</b>                  |                   |                  |                           |                                  | 1       | 1.372 |         |      |         |      |



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| <b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b>   | Date: February 2002  |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 66</b> | P-1 Line Item Nomenclature<br><b>E-4 Post Prod Support</b> |

**Weapon System E-4B**

**Equipment Nomenclature: Aircrew Trainers**

**Description:**

| FINANCIAL PLAN              | FY 2001 |       | FY 2002 |      | FY 2003 |      | To Complete |      | Total Costs |      |       |
|-----------------------------|---------|-------|---------|------|---------|------|-------------|------|-------------|------|-------|
|                             | QTY     | COST  | QTY     | COST | QTY     | COST | QTY         | COST | QTY         | COST |       |
| <b>Hardware Costs</b>       |         |       |         |      |         |      |             |      |             |      |       |
|                             | 1       | 0.920 |         |      |         |      |             |      |             | 1    | 0.920 |
| <b>Total Hardware Costs</b> | 1       | 0.920 |         |      |         |      |             |      |             | 1    | 0.920 |
| <b>Support Costs</b>        |         |       |         |      |         |      |             |      |             |      |       |
|                             |         | 0.452 |         |      |         |      |             |      |             |      | 0.452 |
| <b>Total Support Costs</b>  |         | 0.452 |         |      |         |      |             |      |             |      | 0.452 |
| <b>TOTAL COSTS</b>          | 1       | 1.372 |         |      |         |      |             |      |             | 1    | 1.372 |



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| <b>Exhibit P-43 p.4, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 66</b> | P-1 Line Item Nomenclature<br><b>E-4 Post Prod Support</b> |
|---|--|

**Weapon System E-4B**

**Equipment Nomenclature: Maintenance**

**Description:**

| FINANCIAL PLAN              | FY 2001 |      | FY 2002 |      | FY 2003 |      | To Complete |      | Total Costs |      |
|-----------------------------|---------|------|---------|------|---------|------|-------------|------|-------------|------|
|                             | QTY     | COST | QTY     | COST | QTY     | COST | QTY         | COST | QTY         | COST |
| <b>Hardware Costs</b>       |         |      |         |      |         |      |             |      |             |      |
| <b>Total Hardware Costs</b> |         |      |         |      |         |      |             |      |             |      |
| <b>Support Costs</b>        |         |      |         |      |         |      |             |      |             |      |
| <b>Total Support Costs</b>  |         |      |         |      |         |      |             |      |             |      |
| <b>TOTAL COSTS</b>          |         |      |         |      |         |      |             |      |             |      |

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 67</b> | P-1 Line Item Nomenclature<br><b>F-15 Post Prod Support</b> |
|---|---|

|                                   |         |             |         |         |                                 |         |         |         |         |  |         |       |
|-----------------------------------|---------|-------------|---------|---------|---------------------------------|---------|---------|---------|---------|--|---------|-------|
| Program Element for Code B Items: |         | 27134       |         |         | Other Related Program Elements: |         |         |         | n/a     |  |         |       |
|                                   | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |  | To Comp | Total |
| Proc Qty                          | A       |             |         |         |                                 |         |         |         |         |  |         |       |
| Total Proc Cost (\$ M)            |         | 34.411      | 6.831   | 7.263   | 7.512                           | 7.709   | 7.862   | 8.196   | 8.346   |  | TBD     | TBD   |

**Description**  
 F-15 POST PRODUCTION SUPPORT - 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. Phase 1 of plant shut-down was completed in FY01. Follow-on plant shut-down decision is deferred until completion of the E227 Aircraft deliveries.

**FY 2003 Program Justification**  
 Funding is required for Post Production Support, ICS, and Peculiar Ground Support Equipment. 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. Peculiar Ground Support Equipment is required to modernize the organizational and depot support equipment essential to the maintenance of F-15 aircraft engines.

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 67</b> | P-1 Line Item Nomenclature<br><b>F-15 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 2001                           |           |              | FY 2002 |           |              | FY 2003 |           |              |
|   |            | Qty                               | Unit Cost | Total Cost   | Qty     | Unit Cost | Total Cost   | Qty     | Unit Cost | Total Cost   |
| Airframe Peculiar Ground Support Equipment (PGSE) | A          |                                   |           | 0.000        |         |           | 1.000        |         |           |              |
| Engine PGSE                                       | A          |                                   |           | 0.000        |         |           | 1.000        |         |           | 1.532        |
| <b>SUPPORT COST SUBTOTAL</b>                      | A          |                                   |           | 0.000        |         |           | 2.000        |         |           | 1.532        |
| PPS   | A          |                                   |           | 0.380        |         |           | 0.529        |         |           | 2.000        |
| ICS   | A          |                                   |           | 0.800        |         |           | 1.000        |         |           | 1.000        |
| Support Contracts                                 | A          |                                   |           | 5.651        |         |           | 3.734        |         |           | 2.980        |
| Plant Shutdown                                    | A          |                                   |           | 0.000        |         |           |              |         |           | 0.000        |
| <b>TOTAL PROGRAM</b>                              |            |                                   |           | <b>6.831</b> |         |           | <b>7.263</b> |         |           | <b>7.512</b> |

**Comments**

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| <b>Exhibit P-40, Budget Item Justification</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 68</b> | P-1 Line Item Nomenclature<br><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 2001 | FY 2002 | FY 2003                         | FY 2004 | FY 2005 | FY 2006 | FY 2007 |                              | To Comp | Total   |
| Proc Qty                          | A       | 0           |         |         |                                 |         |         |         |         |                              | 0       | 0       |
| Total Proc Cost (\$ M)            |         | 248.800     | 26.344  | 14.255  | 14.200                          | 12.265  | 12.694  | 18.635  | 12.380  |                              |         | 359.573 |

**Description**  
 The F-16 Fighting Falcon is the world's premier multi-mission fighter. It is a 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/night and all-weather). 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 20 air forces around the world. USAF and Foreign Military Sales production will continue well into the 21st century.

**FY 2003 Program Justification**  
 This appropriation is for the continuation of prime contract post production support, procurement of deferred peculiar ground support equipment, Improved Avionics Intermediate Shop, and training devices.

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 68</b> | P-1 Line Item Nomenclature<br><b>F-16 Post Prod Support</b> |
|---|---|

|  |              |
|--|--------------|
| Manufacturer's Name/Plant City/State Location<br>Lockheed-Martin Tactical Aircraft Systems/Ft. Worth, TX | Subline Item |
|--|--------------|

| Weapon System Cost Elements                       | Ident Code | Total Cost In Millions of Dollars |           |            |         |           |            |         |           |            |
|---|------------|-----------------------------------|-----------|------------|---------|-----------|------------|---------|-----------|------------|
|   |            | FY 2001                           |           |            | FY 2002 |           |            | FY 2003 |           |            |
|   |            | Qty                               | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost | Qty     | Unit Cost | Total Cost |
| Avionics  | A          | 0                                 |           |            | 0       |           |            |         |           |            |
| Armament  | A          | 0                                 |           |            | 0       |           |            |         |           |            |
| Software  | A          | 0                                 |           |            | 0       |           |            |         |           |            |
| Engineering Change Orders (ECO)                   | A          | 0                                 |           |            | 0       |           |            |         |           |            |
| <b>FLYAWAY COST SUBTOTAL</b>                      | A          |                                   |           |            |         |           |            |         |           |            |
| Airframe Peculiar Ground Support Equipment (PGSE) | A          | 0                                 |           |            | 0       |           |            |         |           |            |
| Engine PGSE                                       | A          | 0                                 |           | 3.342      | 0       |           | 2.602      |         |           |            |
| Avionics PGSE                                     | A          | 0                                 |           | 11.718     | 0       |           | 3.077      |         |           | 3.843      |
| Peculiar Training Equipment                       | A          | 0                                 |           | 0.000      | 0       |           | 0.950      |         |           | 1.100      |
| ECOs  | A          | 0                                 |           | 0.058      | 0       |           | 0.303      |         |           | 0.066      |
| Other   | A          | 0                                 |           | 1.301      | 0       |           |            |         |           |            |
| A&AS Reduction                                    | A          |                                   |           |            |         |           |            |         |           |            |
| Distributed Mission Trainer/Exercises             | A          | 0                                 |           | 2.150      | 0       |           |            |         |           |            |
| Fighter Readiness                                 | A          |                                   |           |            |         |           |            |         |           |            |
| Mission Planning                                  | A          | 0                                 |           | 3.292      | 0       |           | 3.300      |         |           | 3.424      |
| ICS   | A          | 0                                 |           | 0.420      | 0       |           | 0.500      |         |           | 0.681      |
| OI&D  | A          | 0                                 |           | 4.063      | 0       |           | 1.134      |         |           | 5.086      |
| MSAMT (AETC PE 89731F)                            | A          | 0                                 |           | 0.000      | 0       |           | 2.389      |         |           |            |
| Reprogramming                                     | A          | 0                                 |           | 0.000      | 0       |           |            |         |           |            |
| <b>SUPPORT COST SUBTOTAL</b>                      | A          |                                   |           | 26.344     |         |           | 14.255     |         |           | 14.200     |

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| <b>Exhibit P-5, Weapon System Cost Analysis</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 68</b> | P-1 Line Item Nomenclature<br><b>F-16 Post Prod Support</b> |
|---|---|

|               |  |  |  |        |  |  |        |  |        |
|---------------|--|--|--|--------|--|--|--------|--|--------|
| TOTAL PROGRAM |  |  |  | 26.344 |  |  | 14.255 |  | 14.200 |
|---------------|--|--|--|--------|--|--|--------|--|--------|

**Comments**

FY00 has a Congressional Plus-up of \$15M for Improved Avionics Intermediate Shop (IAIS).  
 FY00-FY01 has Distributed Mission Trainer/Exercises added under PE 27697. This is for AF concept demonstration, not F-16 specific.  
 FY01 has a Congressional Plus-up of \$5.96M for Improved Avionics Intermediate Shop (IAIS).  
 FY01 PB has \$3.615M BTR from Improved Avionics Intermediate Shop (IAIS) to correct sourcing error.  
 FY02 has Modular Simulated Aircraft Maintenance Trainers (MSAMT) added under PE 89731F.  
 FY03 has \$0.005M A&AS reduction and \$.217 deflation charges  
 FY04 has \$0.004M A&AS reduction and \$.227 deflation charges  
 FY05 has Congressional Plus-up of \$5.50M for Improved Avionics Intermediate Shop (IAIS).  
 FY05 has \$.004M A&AS reduction and \$.275 deflation charges  
 FY06 has \$0.005 A&AS reduction and \$.431 deflation charges  
 FY07 has \$0.003 A&AS reduction and \$.317 deflation charges

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| P-1 Shopping List Item No. 68 | Weapon System Cost Analysis<br>Exhibit P-5, page 3 of 7 |
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| <b>Exhibit P-43 p.1, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 68</b> | P-1 Line Item Nomenclature<br><b>F-16 Post Prod Support</b> |
|---|---|

**Weapon System F-16**

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

| Fin Plan | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | Total |
|----------|---------|---------|---------|---------|---------|---------|---------|-------|
| Proc     | 0.000   | 0.950   | 1.100   | 1.125   | 1.150   | 1.200   | 1.200   | 6.725 |
| Proc     | 0.000   | 2.389   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 2.389 |

**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 Maintenance Training Devices (MTD) are used by Training Detachments to instruct maintenance personnel on the operational checks and malfunction troubleshooting procedures for the F-16 aircraft.

The Modular Simulated Aircraft Maintenance Trainers (MSAMT) are used by the Air and Education Training Command (AETC) Field Training Detachments (FTDs) to instruct maintenance personnel on the operational checks and malfunction troubleshooting procedures for the F-16 aircraft. The MSAMT are next generation, computer-based trainers which will replace obsolete MTDs currently used by the FTDs.



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| <b>Exhibit P-43 p.2, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 68</b> | P-1 Line Item Nomenclature<br><b>F-16 Post Prod Support</b> |
|---|---|

**Weapon System F-16**

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

**IOC Date**

| TRAINING<br>DEVICE<br>BY TYPE | SITE | DELIVERY<br>TIME | READY<br>TRAINING<br>DATE | AVG<br>STUDENT<br>THROUGH<br>PUT | FY 2001 |       | FY 2002 |       | FY 2003 |       |
|-------------------------------|------|------------------|---------------------------|----------------------------------|---------|-------|---------|-------|---------|-------|
|                               |      |                  |                           |                                  | QTY     | COST  | QTY     | COST  | QTY     | COST  |
| MAINTENANCE                   |      |                  |                           |                                  |         | 0.000 |         | 0.950 |         | 1.100 |
| AIRCREW                       |      |                  |                           |                                  |         | 0.000 |         | 0.000 |         | 0.000 |
| MAINTENANCE                   |      |                  |                           |                                  |         | 0.000 |         | 2.389 |         | 0.000 |
| <b>TOTAL</b>                  |      |                  |                           |                                  |         | 0.000 |         | 3.339 |         | 1.100 |

P-1 Shopping List Item No. 68

Simulator and Training Device Justification (\$ M)

Exhibit P-43 p.2, page 5 of 7

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| <b>Exhibit P-43 p.3, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 68</b> | P-1 Line Item Nomenclature<br><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.

| FINANCIAL PLAN              | FY 2001 |       | FY 2002 |       | FY 2003 |      | To Complete |       | Total Costs |       |
|-----------------------------|---------|-------|---------|-------|---------|------|-------------|-------|-------------|-------|
|                             | QTY     | COST  | QTY     | COST  | QTY     | COST | QTY         | COST  | QTY         | COST  |
| <b>Hardware Costs</b>       |         |       |         |       |         |      |             |       |             |       |
|                             |         | 0.000 |         | 0.000 |         |      | TBD         | TBD   | TBD         | TBD   |
| <b>Total Hardware Costs</b> |         | 0.000 |         | 0.000 |         |      | 0           | 0.000 | 0           | 0.000 |
| <b>Support Costs</b>        |         |       |         |       |         |      |             |       |             |       |
| Software Costs              |         | 0.000 |         | 0.000 |         |      | TBD         | TBD   | TBD         | TBD   |
|                             |         | 0.000 |         | 0.000 |         |      | TBD         | TBD   | TBD         | TBD   |
| <b>Total Support Costs</b>  |         | 0.000 |         | 0.000 |         |      | 0           | 0.000 | 0           | 0.000 |
|                             |         |       |         |       |         |      | TBD         | TBD   | TBD         | TBD   |
| <b>TOTAL COSTS</b>          |         | 0.000 |         | 0.000 |         |      | 0           | 0.000 | 0           | 0.000 |

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| <b>Exhibit P-43 p.4, Simulator and Training Device Justification (\$ M)</b> | Date: February 2002 |
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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 68</b> | P-1 Line Item Nomenclature<br><b>F-16 Post Prod Support</b> |
|---|---|

**Weapon System F-16**

**Equipment Nomenclature: Maintenance**

**Description:**

The Maintenance Training Devices (MTDs) are used by Training Detachments to instruct maintenance personnel on the operational checks and malfunction troubleshooting procedures for the F-16 aircraft.

The Modular Simulated Aircraft Maintenance Trainers (MSAMT) are used by the Air and Education Training Command (AETC) Field Training Detachments (FTDs) to instruct maintenance personnel on the operational checks and malfunction troubleshooting procedures for the F-16 aircraft. The MSAMT are next generation, computer-based trainers which will replace obsolete MTDs currently used by the FTDs.

| FINANCIAL PLAN              | FY 2001 |       | FY 2002 |       | FY 2003 |       | To Complete |      | Total Costs |      |       |
|-----------------------------|---------|-------|---------|-------|---------|-------|-------------|------|-------------|------|-------|
|                             | QTY     | COST  | QTY     | COST  | QTY     | COST  | QTY         | COST | QTY         | COST |       |
| <b>Hardware Costs</b>       |         | 0.000 |         | 0.000 |         |       |             | TBD  | TBD         | TBD  | TBD   |
| <b>Total Hardware Costs</b> |         | 0.000 |         | 0.000 |         |       |             | 0    | 0.000       | 0    | 0.000 |
| <b>Support Costs</b>        |         | 0.000 |         | 0.950 |         | 1.100 |             | TBD  | TBD         | TBD  | TBD   |
|                             |         | 0.000 |         | 2.389 |         |       |             | TBD  | TBD         | TBD  | TBD   |
| <b>Total Support Costs</b>  |         | 0.000 |         | 3.339 |         | 1.100 |             | 0    | 0.000       | 0    | 0.000 |
|                             |         |       |         |       |         |       |             | TBD  | TBD         | TBD  | TBD   |
| <b>TOTAL COSTS</b>          |         | 0.000 |         | 3.339 |         | 1.100 |             | 0    | 0.000       | 0    | 0.000 |

|                               |  |
|-------------------------------|--|
| P-1 Shopping List Item No. 68 | <b>Simulator and Training Device Justification (\$ M)</b><br>Exhibit P-43 p.4, page 7 of 7 |
|-------------------------------|--|

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**FY 2003 BUDGET ESTIMATES**  
**BP 14 – INDUSTRIAL PREPAREDNESS**  
**FEBRUARY 2002**

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| <b>Exhibit P-40, Budget Item Justification</b>   |         |             |         |         |         |                                 |         |         | Date: February 2002  |  |         |         |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 69</b>  |         |             |         |         |         |                                 |         |         | P-1 Line Item Nomenclature<br><b>Industrial Preparedness</b> |  |         |         |
| Program Element for Code B Items:  |         |             | N/A     |         |         | Other Related Program Elements: |         |         | N/A  |  |         |         |
|  | ID Code | Prior Years | FY 2001 | FY 2002 | FY 2003 | FY 2004                         | FY 2005 | FY 2006 | FY 2007  |  | To Comp | Total   |
| Proc Qty   | A       |             |         |         |         |                                 |         |         |  |  |         |         |
| Total Proc Cost (\$ M)   |         |             | 25.050  | 25.204  | 22.248  | 23.620                          | 24.113  | 24.064  | 24.498   |  |         | 168.797 |
| <b>Description</b>   |         |             |         |         |         |                                 |         |         |  |  |         |         |
| <p>1. The Air Force Industrial Preparedness program element combines the resources of several appropriations (3010, 3020, 3080, 3400, and 3600) to create a comprehensive program that ensures the defense industry can supply reliable, affordable systems to operational commanders. The 3010 part of Industrial Preparedness supports the following: 1) management of government-owned industrial plants; and 2) management of industrial base planning activities and compliance with the Defense Production Act.</p> <p>2. Two basic activities are funded in this appropriation: Industrial Facilities and Industrial Base Planning:</p> <p>Industrial Facility cost elements (MPCs 1000, 3000, 7000, and 9000): 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, U-2, F-16, C-130, C-5B, F-117, and F-22.</p> <p>Industrial Planning cost element (MPC 6000): Provides for the identification/analysis of critical aircraft industrial base problems/constraints (e.g., diminishing manufacturing sources material shortages -- on the B-1B, B-52, F-15, C-5, and C-141 fielded systems, as well as on the F-16, F-22, C-17, and C-130 systems in production). Supports Air Force management of the Defense Priorities and Allocations System (Title I, Defense Production Act). Provides timely and accurate industrial base information to support Air Force decisions on: 1) aircraft weapon system acquisition risks; 2) budget allocation and investments; 3) weapon system sustainment and logistics support; and 4) defense industry mergers and acquisitions and divestitures. Supports joint-Service industrial base planning on shared commodities, technologies, and facilities.</p> |         |             |         |         |         |                                 |         |         |  |  |         |         |
| <b>FY 2003 Program Justification</b>   |         |             |         |         |         |                                 |         |         |  |  |         |         |
| This appropriation line item supports Industrial Preparedness per Defense planning documents, Defense Production Act, and DoD Mantech Program as mandated by Section 2525, Title 10, United States Code.   |         |             |         |         |         |                                 |         |         |  |  |         |         |
| P-1 Shopping List Item No. 69  |         |             |         |         |         |                                 |         |         | <b>Budget Item Justification</b>                             |  |         |         |
|  |         |             |         |         |         |                                 |         |         | <b>Exhibit P-40, page 1 of 2</b>                             |  |         |         |

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| Exhibit P-5, Weapon System Cost Analysis  |            |                                   |           |               |         | Date: February 2002                                     |               |         |           |               |  |
|---|------------|-----------------------------------|-----------|---------------|---------|---|---------------|---------|-----------|---------------|--|
| 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. 69 |            |                                   |           |               |         | Industrial Preparedness                                 |               |         |           |               |  |
| Manufacturer's Name/Plant City/State Location   |            |                                   |           |               |         | Subline Item  |               |         |           |               |  |
| Weapon System Cost Elements   | Ident Code | Total Cost In Millions of Dollars |           |               |         |   |               |         |           |               |  |
|   |            | FY 2001                           |           |               | FY 2002 |   |               | FY 2003 |           |               |  |
|   |            | 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          |                                   |           | 7.432         |         |   | 8.314         |         |           | 11.126        |  |
| Replacement & Modernization (MPC 4000)  | A          |                                   |           | 0.000         |         |   | 0.000         |         |           | 0.000         |  |
| Industrial Base Assessment (MPC 6000)   | A          |                                   |           | 4.748         |         |   | 4.926         |         |           | 4.044         |  |
| Environmental Compliance (MPC 7000)   | A          |                                   |           | 12.940        |         |   | 12.471        |         |           | 7.418         |  |
|   |            |                                   |           |               |         |   |               |         |           |               |  |
|   |            |                                   |           |               |         |   |               |         |           |               |  |
| <b>TOTAL PROGRAM</b>  |            |                                   |           | <b>25.120</b> |         |   | <b>25.711</b> |         |           | <b>22.588</b> |  |
| <b>Comments</b>   |            |                                   |           |               |         |   |               |         |           |               |  |
|   |            |                                   |           |               |         |   |               |         |           |               |  |
|   |            |                                   |           |               |         |   |               |         |           |               |  |
| P-1 Shopping List Item No. 69   |            |                                   |           |               |         | Weapon System Cost Analysis<br>Exhibit P-5, page 2 of 2 |               |         |           |               |  |



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**FY 2003 BUDGET ESTIMATES**

**BP 17 – WAR CONSUMABLES**

**FEBRUARY 2002**

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| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>   |  |                          |               |  |               |                           | <b>DATE:</b> FEBRUARY 2002 |               |
| <b>APPROP CODE/BA:</b><br>APAF/WAR CONSUMABLES  |  |                          |               | <b>P-1 NOMENCLATURE:</b><br>WAR CONSUMABLES (OVERVIEW) |               |                           |                            |               |
|   |  | <b>FY2001</b>            | <b>FY2002</b> | <b>FY2003</b>  | <b>FY2004</b> | <b>FY2005</b>             | <b>FY2006</b>              | <b>FY2007</b> |
| <b>QUANTITY</b>   |  |                          |               |  |               |                           |                            |               |
| <b>COST</b><br>(in Thousands)   |  | \$58,671                 | \$47,466      | \$38,429   | \$45,008      | \$43,269                  | \$67,689                   | \$69,040      |
| <p><b>Description:</b></p> <p>1. This program provides funding for the procurement of initial/replacement War Consumables, and includes commodities such as aircraft Tanks, Racks, Adapters, Pylons (TRAP), Missile Rail Launchers, Radio Frequency (RF) (expendable) Towed Decoys, Fiber Optic Towed Decoys (FOTD), and Aerial Target Drone (ATD) rocket motors. These items support War Reserve Materiel (WRM) requirements and fleet inventory objectives across multiple weapon systems.</p> <p>2. Items to be procured in FY03 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 current Air Force mission requirements.</p> |  |                          |               |  |               |                           |                            |               |
|   |  | <b>P-1 ITEM NO</b><br>70 |               |  |               | <b>PAGE NO:</b><br>7 - 97 | Page 1 of 1                |               |

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| <b>BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A)</b> |            |      |                          |  |          |        | <b>DATE: FEBRUARY 2002</b> |        |          |  |
|--|------------|------|--------------------------|--|----------|--------|----------------------------|--------|----------|--|
| <b>APPROP CODE/BA:</b><br>APAF/WAR CONSUMABLES                         |            |      |                          | <b>P-1 NOMENCLATURE:</b><br>WAR CONSUMABLES (OVERVIEW) |          |        |                            |        |          |  |
| PROCUREMENT ITEMS  | ID<br>CODE |      |                          | FY2001   |          | FY2002 |                            | FY2003 |          |  |
|  |            | QTY. | COST                     | QTY.   | COST     | QTY.   | COST                       | QTY.   | COST     |  |
| ADVANCED AIRBORNE EXPENDABLE DECOY (AAED)                              | A          |      |                          | 2,577  | \$46,832 | 930    | \$22,892                   | 982    | \$21,605 |  |
| MINIATURE AIR-LAUNCHED DECOY (MALD)                                    | A          |      |                          |  |          | 24     | \$5,000                    |        |          |  |
| ITEMS LESS THAN \$5 MILLION  | A          |      |                          |  | \$11,839 |        | \$19,574                   |        | \$16,824 |  |
| <b>Totals:</b>   |            |      |                          |  | \$58,671 |        | \$47,466                   |        | \$38,429 |  |
| <b>Remarks:</b>  |            |      |                          |  |          |        |                            |        |          |  |
|  |            |      | <b>P-1 ITEM NO</b><br>70 |  |          |        | <b>PAGE NO:</b><br>7 - 98  |        |          |  |
|  |            |      |                          |  |          |        | Page 1 of 1                |        |          |  |

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| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>  |  |                          |               |   |                           | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/WAR CONSUMABLES   |  |                          |               | <b>P-1 NOMENCLATURE:</b><br>ADVANCED AIRBORNE EXPENDABLE DECOY (AAED) |                           |                            |               |               |
|  |  | <b>FY2001</b>            | <b>FY2002</b> | <b>FY2003</b>   | <b>FY2004</b>             | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>  |  | 2,577                    | 930           | 982   | 2,175                     | 2,413                      | 2,474         | 2,577         |
| <b>COST</b><br>(in Thousands)  |  | \$46,832                 | \$22,892      | \$21,605  | \$34,859                  | \$32,885                   | \$56,952      | \$58,057      |
| <p><b>Description:</b></p> <p>1. 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, highly successful use during Operation Noble Anvil (ONA).</p> <p>2. 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-16s as soon as possible.</p> <p>3. Items requested in FY03 are identified on the following P-5 and are representative of items to be procured. Items procured during execution may change based on the most critical equipment needed to support current Air Force mission requirements.</p> |  |                          |               |   |                           |                            |               |               |
|  |  | <b>P-1 ITEM NO</b><br>70 |               |   | <b>PAGE NO:</b><br>7 - 99 |                            |               |               |

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| <b>WEAPON SYSTEM COST ANALYSIS (EXHIBIT P- 5)</b> |               |     |              |                          |        |              |   |        |              |                            |        | <b>DATE:</b> FEBRUARY 2002 |               |  |  |
|---|---------------|-----|--------------|--------------------------|--------|--------------|---|--------|--------------|----------------------------|--------|----------------------------|---------------|--|--|
| <b>APPROP CODE/BA:</b><br>APAF/WAR CONSUMABLES    |               |     |              |                          |        |              | <b>P-1 NOMENCLATURE:</b><br>ADVANCED AIRBORNE EXPENDABLE DECOY (AAED) |        |              |                            |        |                            |               |  |  |
| WEAPON SYSTEM<br>COST ELEMENTS                    | IDENT<br>CODE |     |              |                          | FY2001 |              |   | FY2002 |              |                            | FY2003 |                            |               |  |  |
|   |               | QTY | UNIT<br>COST | TOTAL<br>COST            | QTY    | UNIT<br>COST | TOTAL<br>COST   | QTY    | UNIT<br>COST | TOTAL<br>COST              | QTY    | UNIT<br>COST               | TOTAL<br>COST |  |  |
| AAED  | A             |     |              |                          | 2,577  | 18,173       | 46,832  | 930    | 22034        | 20,492                     | 982    | 22,001                     | 21,605        |  |  |
| PROCESSOR REDISIGN                                |               |     |              |                          |        |              |   |        |              | 2,400                      |        |                            |               |  |  |
| <b>TOTALS:</b>                                    |               |     |              |                          |        |              | 46,832  |        |              | 22,892                     |        |                            | 21,605        |  |  |
| <b>REMARKS:</b>                                   |               |     |              |                          |        |              |   |        |              |                            |        |                            |               |  |  |
|   |               |     |              | <b>P-1 ITEM NO</b><br>70 |        |              |   |        |              | <b>PAGE NO:</b><br>7 - 100 |        | Page 1 of 1                |               |  |  |

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| <b>BUDGET PROCUREMENT HISTORY PLANNING (EXHIBIT P- 5A)</b> |       |                          |                 |   |                            |              | <b>DATE:</b> FEBRUARY 2002 |                       |                       |  |
|--|-------|--------------------------|-----------------|---|----------------------------|--------------|----------------------------|-----------------------|-----------------------|--|
| <b>APPROP CODE/BA:</b><br>APAF/WAR CONSUMABLES             |       |                          |                 | <b>P-1 NOMENCLATURE:</b><br>ADVANCED AIRBORNE EXPENDABLE DECOY (AAED) |                            |              |                            |                       |                       |  |
| ITEM /<br>FISCAL YEAR                                      | QTY.  | UNIT<br>COST             | LOCATION OF PCO | CONTRACT<br>METHOD & TYPE   | CONTRACTOR<br>AND LOCATION | AWD.<br>DATE | DATE<br>FIRST<br>DEL.      | SPECS<br>AVAIL<br>NOW | DATE<br>REV.<br>AVAIL |  |
| AAED   |       |                          |                 |   |                            |              |                            |                       |                       |  |
| FY00   | 5,932 | 16,334                   | AFMC/WR-ALC     | OPT/FP  | E-SYSTEMS, GOLETA, CA      | DEC 99       | AUG 00                     |                       |                       |  |
| FY01   | 2,577 | 18,173                   | AFMC/WR-ALC     | OPT/FP  | E-SYSTEMS, GOLETA, CA      | MAR 01       | MAY 02                     |                       |                       |  |
| FY02   | 930   | 24,615                   | AFMC/WR-ALC     | OPT/FP  | E-SYSTEMS, GOLETA, CA      | MAR 02       | MAY 03                     | Y                     |                       |  |
| FY03   | 982   | 22,001                   | AFMC/WR-ALC     | OPT/FP  | E-SYSTEMS, GOLETA, CA      | MAR 03       | MAY 04                     | Y                     |                       |  |
| <b>REMARKS:</b>  |       |                          |                 |   |                            |              |                            |                       |                       |  |
|  |       | <b>P-1 ITEM NO</b><br>70 |                 |   | <b>PAGE NO:</b><br>7 - 101 |              |                            | Page 1 of 1           |                       |  |

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**PRESIDENT'S BUDGET PRODUCTION SCHEDULE (EXHIBIT P- 21) DATE: FEBRUARY 2002**

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

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

| ITEM/MANUFACTURER/<br>PROCUREMENT YEAR | SERV. | PROC.<br>QTY. | ACCEP.<br>PRIOR TO<br>1 OCT. | BAL<br>DUE AS<br>OF 1 OCT. | CALENDAR 2002 |     |     |     |     |     |     |     |     |     |     |     | CALENDAR 2003 |     |     |     |     |     |     |     |     |     |     |     | Later |     |
|--|-------|---------------|------------------------------|----------------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
|  |       |               |                              |                            | FY2002        |     |     |     |     |     |     |     |     |     |     |     | FY2003        |     |     |     |     |     |     |     |     |     |     |     |       |     |
|  |       |               |                              |                            | 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                                   |       |               |                              |                            |               |     |     |     |     |     |     |     |     |     |     |     |               |     |     |     |     |     |     |     |     |     |     |     |       |     |
| FY99                                   | AF    | 2695          | 2695                         | 0                          |               |     |     |     |     |     |     |     |     |     |     |     |               |     |     |     |     |     |     |     |     |     |     |     |       |     |
| FY00                                   | AF    | 5932          | 3161                         | 2771                       | 257           | 257 | 257 | 257 | 257 | 267 | 264 | 264 | 248 | 225 | 218 |     |               |     |     |     |     |     |     |     |     |     |     |     |       |     |
| FY01                                   | AF    | 2577          | 0                            | 2577                       |               |     |     |     |     |     |     | 36  | 52  | 75  | 80  | 100 | 129           | 130 | 200 | 300 | 250 | 200 | 175 | 175 | 175 | 175 | 175 | 115 | 35    |     |
| FY02                                   | AF    | 930           | 0                            | 930                        |               |     |     |     |     | C   |     |     |     |     |     |     |               |     |     |     |     |     |     |     |     | 77  | 77  | 77  | 77    | 545 |
| FY03                                   | AF    | 982           |                              | 982                        |               |     |     |     |     |     |     |     |     |     |     |     |               |     |     |     |     |     |     |     |     |     |     |     |       | 982 |
|  |       |               |                              | 0                          |               |     |     |     |     |     |     |     |     |     |     |     |               |     |     |     |     |     |     |     |     |     |     |     |       |     |
| <b>TOTALS</b>                          |       | 13116         | 5856                         | 7260                       | 257           | 257 | 257 | 257 | 257 | 267 | 264 | 300 | 300 | 300 | 298 | 100 | 129           | 130 | 200 | 300 | 250 | 200 | 175 | 252 | 252 | 252 | 252 | 192 | 1562  |     |

| ITEM/MANUFACTURER/<br>PROCUREMENT YEAR | SERV. | PROC.<br>QTY. | ACCEP.<br>PRIOR TO<br>1 OCT. | BAL<br>DUE AS<br>OF 1 OCT. | CALENDAR 2004 |     |     |     |     |     |     |     |     |     |     |     | CALENDAR 2005 |     |     |     |     |     |     |     |     |     |     |     | Later |  |
|--|-------|---------------|------------------------------|----------------------------|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|--|
|  |       |               |                              |                            | FY2004        |     |     |     |     |     |     |     |     |     |     |     | FY2005        |     |     |     |     |     |     |     |     |     |     |     |       |  |
|  |       |               |                              |                            | 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                                   |       |               |                              |                            |               |     |     |     |     |     |     |     |     |     |     |     |               |     |     |     |     |     |     |     |     |     |     |     |       |  |
| FY99                                   | AF    | 2695          | 2695                         | 0                          |               |     |     |     |     |     |     |     |     |     |     |     |               |     |     |     |     |     |     |     |     |     |     |     |       |  |
| FY00                                   | AF    | 5932          | 5932                         | 0                          |               |     |     |     |     |     |     |     |     |     |     |     |               |     |     |     |     |     |     |     |     |     |     |     |       |  |
| FY01                                   | AF    | 2577          | 2542                         | 35                         | 35            |     |     |     |     |     |     |     |     |     |     |     |               |     |     |     |     |     |     |     |     |     |     |     |       |  |
| FY02                                   | AF    | 930           | 385                          | 545                        | 77            | 77  | 77  | 77  | 77  | 77  | 83  |     |     |     |     |     |               |     |     |     |     |     |     |     |     |     |     |     |       |  |
| FY03                                   | AF    | 982           | 0                            | 982                        |               |     |     |     |     |     |     | 81  | 81  | 81  | 81  | 81  | 81            | 81  | 81  | 81  | 81  | 81  | 91  |     |     |     |     |     |       |  |
|  |       |               |                              | 0                          |               |     |     |     |     |     |     |     |     |     |     |     |               |     |     |     |     |     |     |     |     |     |     |     |       |  |
| <b>TOTALS</b>                          |       | 13116         | 11554                        | 1562                       | 112           | 77  | 77  | 77  | 77  | 77  | 83  | 81  | 81  | 81  | 81  | 81  | 81            | 81  | 81  | 81  | 81  | 81  | 91  |     |     |     |     |     |       |  |

| MANUFACTURER'S<br>NAME AND LOCATION | PRODUCTION RATES |       |     | ADMIN LEAD TIME |             |     | MANUFACT. |    |    | TOTAL |
|-------------------------------------|------------------|-------|-----|-----------------|-------------|-----|-----------|----|----|-------|
|                                     | MIN SUST         | 1-8-5 | MAX | PRIOR TO 1 OCT  | AFTER 1 OCT | PLT | 1 OCT     |    |    |       |
| E-SYSTEMS, GOLETA, CA               | 60               |       | 300 |                 |             |     |           |    |    |       |
|                                     |                  |       |     | INITIAL         | 0           | 0   | 0         | 0  | 0  |       |
|                                     |                  |       |     | REORDER         | 0           | 6   | 14        | 20 | 20 |       |

**REMARKS:**

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|   |  |                            |               |   |               |                            |               |               |
|---|--|----------------------------|---------------|---|---------------|----------------------------|---------------|---------------|
| <b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>   |  |                            |               |   |               | <b>DATE:</b> FEBRUARY 2002 |               |               |
| <b>APPROP CODE/BA:</b><br>APAF/WAR CONSUMABLES  |  |                            |               | <b>P-1 NOMENCLATURE:</b><br>ITEMS LESS THAN \$5,000,000 |               |                            |               |               |
|   |  | <b>FY2001</b>              | <b>FY2002</b> | <b>FY2003</b>   | <b>FY2004</b> | <b>FY2005</b>              | <b>FY2006</b> | <b>FY2007</b> |
| <b>QUANTITY</b>   |  |                            |               |   |               |                            |               |               |
| <b>COST</b><br>(in Thousands)   |  | \$11,839                   | \$19,574      | \$16,824  | \$10,149      | \$10,384                   | \$10,737      | \$10,983      |
| <p><b>Description:</b></p> <p>1. The "Items Less than \$5 Million" line includes commodities such as launchers, tank storage/shipping containers, bomb rack 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 FY03 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 current Air Force mission requirements.</p> |  |                            |               |   |               |                            |               |               |
| <b>P-1 ITEM NO</b><br>70  |  | <b>PAGE NO:</b><br>7 - 104 |               |   |               |                            | Page 1 of 1   |               |

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| BUDGET ITEM JUSTIFICATION FOR AGGREGATED ITEMS (EXHIBIT P- 40A-IL)                           |                          |      |   | DATE: FEBRUARY 2002 |                 |
|--|--------------------------|------|---|---------------------|-----------------|
| <b>APPROP CODE/BA:</b><br>APAF/WAR CONSUMABLES   |                          |      | <b>P-1 NOMENCLATURE:</b><br>ITEMS LESS THAN \$5,000,000 |                     |                 |
| PROCUREMENT ITEMS  | NSN                      |      |   | FY2003              |                 |
|  |                          | QTY. | COST  | QTY.                | COST            |
| LAU-88A/A TRIPLE RAIL LAUNCHERS  |                          |      |   | 707                 | \$2,501         |
| LAU-117(V)3/A SINGLE RAIL LAUNCHER   |                          |      |   | 515                 | \$5,000         |
| LAU-118A(V)4/A SINGLE RAIL MISSILE LAUNCHER WITH AIRCRAFT LAUNCHER INTERFACE COMPUTER (ALIC) |                          |      |   | 74                  | \$5,000         |
| TER-9A RACK (ELECTRONIC UPGRADE)   |                          |      |   | 610                 | \$3,550         |
| BRU-57 SMART RACK  |                          |      |   | 4                   | \$576           |
| AERIAL TARGET DRONE ROCKET MOTOR   |                          |      |   |                     | \$197           |
| <b>TOTALS:</b>   |                          |      |   |                     | <b>\$16,824</b> |
|  |                          |      |   |                     |                 |
|  | <b>P-1 ITEM NO</b><br>70 |      | <b>PAGE NO:</b><br>7 - 105                              | Page 1 of 1         |                 |

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**FY 2003 BUDGET ESTIMATES**  
**BP 19 – OTHER PRODUCTION CHARGES**  
**FEBRUARY 2002**

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|---|---------|---------|---------|---------|---------|---|---------|--|
| <b>Exhibit P-40, Budget Item Justification</b>  |         |         |         |         |         | Date: February 2002   |         |  |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> |         |         |         |         |         | P-1 Line Item Nomenclature<br><b>Miscellaneous Production Charges</b> |         |  |
|   | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006   | FY 2007 |  |
| Proc Qty  |         |         |         |         |         |   |         |  |
| Total Proc Cost (\$ M)  | 362.590 | 323.316 | 349.516 | 330.202 | 276.431 | 337.946   | 434.885 |  |

**Description**

These programs provide for items which (1) are not directly related to other procurement lines 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.

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| <b>Exhibit P-40A, Budget Item Justification for Aggregated Items</b>   |                | Date: February 2002                            |                |
|--|----------------|--|----------------|
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number  |                | P-1 Line Item Nomenclature                     |                |
| <b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> |                | <b>Miscellaneous Production Charges</b>        |                |
| Procurement Items (\$M)  | FY 2001        | FY 2002  | FY 2003        |
| NATO AWACS Modernization   | 81.289         | 43.347   | 59.658         |
| C-17   | 0.000          | 0.000  | 9.903          |
| C-5 Airborne Broadcast Intelligence (ABI)  | 1.288          | 1.217  | 1.200          |
| Classified Programs  | 46.480         | 70.122   | 69.342         |
| Combat Training Range Equipment  | 6.744          | 15.869   | 14.430         |
| EW Equipment Sustainment   | 0.000          | 4.950  | 4.587          |
| Electronic Warfare Integrated Reprogramming (EWIR)   | 0.000          | 2.964  | 2.315          |
| F-16   | 0.000          | 0.437  | 0.352          |
| F-22   | 0.000          | 0.000  | 17.713         |
| Flight Screening   | 2.035          | 0.108  | 0.000          |
| Intelligence Programs  | 109.608        | 59.838   | 45.452         |
| Judgment Fund Reimbursement  | 26.904         | 45.000   | 44.984         |
| KC-135 Airborne Broadcast Intelligence (ABI)   | 1.292          | 1.379  | 1.359          |
| Precision Attack Systems Procurement   | 33.256         | 35.351   | 36.499         |
| Manned Destructive Suppression   | 13.993         | 0.000  | 0.000          |
| NAVSTAR Global Positioning System (GPS) User Equipment   | 36.933         | 26.272   | 17.619         |
| Pollution Prevention   | 2.768          | 2.924  | 2.260          |
| Reconnaissance Program   | 0.000          | 13.538   | 21.843         |
| <b>Total</b>   | <b>362.590</b> | <b>323.316</b>                                 | <b>349.516</b> |
|  |                |  |                |
| P-1 Shopping List Item No. 71  |                | Budget Item Justification for Aggregated Items |                |
|  |                | Exhibit P-40A, page 2 of 21                    |                |



|   |   |
|---|---|
| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002   |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>NATO AWACS Modernization</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** NATO AWACS Modernization

**MODELS OF AIRCRAFT APPLICABLE:** E-3A

**DESCRIPTION/JUSTIFICATION:** NATO E-3 aircraft 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, Electronic Support Measures (ESM) 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, satellite communications, and adds 5 new consoles to the aircraft. These Near and Mid-Term projects will update the NATO E-3 aircraft with capabilities to maintain fleet operational effectiveness and interoperability well into the 21st century.

**PROJECTED FINANCIAL PLAN:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> |         |         |         |
| NATO AWACS-Near/Mid Term        | 81.289  | 43.347  | 59.658  |
| <b>TOTAL COST</b>               | 81.289  | 43.347  | 59.658  |

|   |   |
|---|---|
| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002                       |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 01, Combat Aircraft, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>C-17</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** C-17

**MODELS OF AIRCRAFT APPLICABLE:** C-17

**DESCRIPTION/JUSTIFICATION:** Funds will provide Modern Intermediate Level Teststand (MILT) and peculiar supply equipment for maintenance training devices for the C-17 strategic airlift squadrons (ANG).

**PROJECTED FINANCIAL PLAN:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> |         |         | 9.903   |
| <b>TOTAL COST</b>               |         |         | 9.903   |

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| <b>Exhibit P-1900, Fact Sheet</b> | Date: February 2002 |
|-----------------------------------|---------------------|

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| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>C-5 Airborne Broadcast Intelligence (ABI)</b> |
|---|--|

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**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 increase 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:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> | 1.288   | 1.217   | 1.200   |
| <b>TOTAL COST</b>               | 1.288   | 1.217   | 1.200   |

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. 71**

**Classified Programs**

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** Classified Programs

**MODELS OF AIRCRAFT APPLICABLE:** N/A

**DESCRIPTION/JUSTIFICATION:** Details of this program are available on a need-to-know basis.

**PROJECTED FINANCIAL PLAN:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> | 46.480  | 70.122  | 69.342  |
| <b>TOTAL COST</b>               | 46.480  | 70.122  | 69.342  |

|   |  |
|---|--|
| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002  |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>Combat Training Range Equipment</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** Combat Training Range Equipment

**MODELS OF AIRCRAFT APPLICABLE:** A-10, F-15, F-16, F-22, B-52, B-1, B-2

**DESCRIPTION/JUSTIFICATION:** Air Combat Training Systems (ACTS) provide equipment for Air Force training areas 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 training while providing real-time monitoring and control of aircraft and recording events for post-mission debrief and analysis. Under the P4 Refurbishment Contract (P4RC), the Air Force is upgrading/refurbishing P4-series legacy systems to a single rangeless standard by incorporating Global Positioning System (GPS) receivers, data recorders, and onboard weapons simulations. In FY03 funding continues to refurbish, upgrade, and procure additional rangeless systems which will incorporate latest developments in air-to-air datalink and live monitoring capability. These systems and In-flight Data Recorders (IDR) will satisfy rangeless training instrumentation requirements across the fighter and bomber fleets. These upgraded/new systems will be interoperable with each other and with older legacy systems; enabling post mission debriefing of all training participants, maintaining compatibility with latest software upgrades on aircraft platforms, and providing interoperability with US Navy ranges.

**PROJECTED FINANCIAL PLAN:**

|   | FY 2001 | FY 2002 | FY 2003 |
|---|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b>                 |         |         |         |
| - Joint Tactical Combat Training System (JTCTS) |         |         |         |
| - Legacy ACTS                                   |         |         |         |
| -- P4 Refurbishment Contract (P4RC)/P4RC Plus   | 6.581   | 15.593  | 14.180  |
| -- Other Legacy Systems                         | 0.163   | 0.276   | 0.250   |

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| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002  |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>Combat Training Range Equipment</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions) Continued**

ACTS PODS

SIGNIFICANT PROGRAM CHANGES:

- FY01 reduced - \$0.165M Congressional General Reductions (CGR).
- FY01 reduced - \$16.767M Prior Approval Reprogramming (FY01 Omnibus)
- FY01 increased +\$5.670M from Prior Approval Reprogramming (FY01 Omnibus)
- FY01 reduced - \$1.300M Congressional Rescission from JTCTS program.
- FY02 increased +\$3.000M Cong Add for Air Combat Training Range Security

|                   |       |        |        |
|-------------------|-------|--------|--------|
| <b>TOTAL COST</b> | 6.744 | 15.869 | 14.430 |
|-------------------|-------|--------|--------|

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. 71**

**EW Equipment Sustainment**

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** EW Equipment Sustainment

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

**DESCRIPTION/JUSTIFICATION:** Program provides sustainment/modernization of ALQ-131 and 184 EW pods (primary self-protection equipment for A-10s and F-16s) and related support equipment.

**PROJECTED FINANCIAL PLAN:**

|  |         |         |         |
|--|---------|---------|---------|
|  | FY 2001 | FY 2002 | FY 2003 |
|--|---------|---------|---------|

|                                 |       |       |       |
|---------------------------------|-------|-------|-------|
| <b>BASIS FOR COST ESTIMATE:</b> | 0.000 | 4.950 | 4.587 |
|---------------------------------|-------|-------|-------|

|                   |       |       |       |
|-------------------|-------|-------|-------|
| <b>TOTAL COST</b> | 0.000 | 4.950 | 4.587 |
|-------------------|-------|-------|-------|

|   |   |
|---|---|
| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002   |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>Electronic Warfare Integrated Reprogramming (EWIR)</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** Electronic Warfare Integrated Reprogramming (EWIR)

**MODELS OF AIRCRAFT APPLICABLE:**

**DESCRIPTION/JUSTIFICATION:** This program funds equipment and aircraft system components for the EW Avionics Integrated Support Facility (EWASIF) to provide critical reprogramming of EW systems for all Air Force and Foreign Military Sales customers.

**PROJECTED FINANCIAL PLAN:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> | 0.000   | 2.964   | 2.315   |
| <b>TOTAL COST</b>               | 0.000   | 2.964   | 2.315   |



|   |   |
|---|---|
| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002                       |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>F-16</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** F-16

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

**DESCRIPTION/JUSTIFICATION:** Funds will support other cost associated with Blk 50/52 aircraft Destruction of Enemy Defense (DEAD) mission with Advance Targeting Pod (ATP).

**PROJECTED FINANCIAL PLAN:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> |         | 0.437   | 0.352   |
| <b>TOTAL COST</b>               |         | 0.437   | 0.352   |

|   |   |
|---|---|
| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002                       |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>F-22</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** F-22

**MODELS OF AIRCRAFT APPLICABLE:** F-22

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

**PROJECTED FINANCIAL PLAN:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> | 0.000   | 0.000   | 17.713  |
| <b>TOTAL COST</b>               | 0.000   | 0.000   | 17.713  |

|   |   |
|---|---|
| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002                                   |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>Flight Screening</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

|                                       |   |         |         |
|---------------------------------------|---|---------|---------|
| <b>PROJECT TITLE:</b>                 | Flight Screening  |         |         |
| <b>MODELS OF AIRCRAFT APPLICABLE:</b> | Blanik L-13-AC and L-33-Solo Gliders  |         |         |
| <b>DESCRIPTION/JUSTIFICATION:</b>     | 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. The FY 01 dollars will be used for Glider replacement at the Air Force Academy for the Academy Airmanship Program. |         |         |
| <b>PROJECTED FINANCIAL PLAN:</b>      |   |         |         |
| <b>BASIS FOR COST ESTIMATE:</b>       | FY 2001   | FY 2002 | FY 2003 |
| <b>TOTAL COST</b>                     | 2.035   | 0.108   |         |

Exhibit P-1900, Fact Sheet

Date: February 2002

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. 71**

**Intelligence Programs**

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** Intelligence Programs

**MODELS OF AIRCRAFT APPLICABLE:** N/A

**DESCRIPTION/JUSTIFICATION:** Details of this program are available on a need-to-know basis.

**PROJECTED FINANCIAL PLAN:**

|  |         |         |         |
|--|---------|---------|---------|
|  | FY 2001 | FY 2002 | FY 2003 |
|--|---------|---------|---------|

|                                 |         |        |        |
|---------------------------------|---------|--------|--------|
| <b>BASIS FOR COST ESTIMATE:</b> | 109.608 | 59.838 | 45.452 |
|---------------------------------|---------|--------|--------|

|                   |         |        |        |
|-------------------|---------|--------|--------|
| <b>TOTAL COST</b> | 109.608 | 59.838 | 45.452 |
|-------------------|---------|--------|--------|

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| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002  |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>Judgment Fund Reimbursement</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** Judgment Fund Reimbursement

**MODELS OF AIRCRAFT APPLICABLE:** N/A

**DESCRIPTION/JUSTIFICATION:**

In September 1998 a contractor's claim against the AC130U contract was settled as an Alternate Dispute Resolution. The contractor was paid the settlement in FY 1999 from the Treasury Department's judgement fund, which the Air Force is required by law to reimburse. The approved Air Force repayment plan began in FY2000 and continues through FY 2004.

A contractor's claim against the JSTARS contract was settled as an Alternate Dispute Resolution. The contractor was paid the settlement in FY 2000 from the Treasury Department's judgement fund, which the Air Force is required by law to reimburse. Accordingly, the Air Force repayment plan starts in FY2001 and continues through FY 2004.

**PROJECTED FINANCIAL PLAN:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> | 26.904  | 45.000  | 44.984  |
| <b>TOTAL COST</b>               | 26.904  | 45.000  | 44.984  |

|   |   |
|---|---|
| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002   |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>KC-135 Airborne Broadcast Intelligence (ABI)</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

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

**MODELS OF AIRCRAFT APPLICABLE:** KC-135

**DESCRIPTION/JUSTIFICATION:** Airborne Broadcast Intelligence (ABI) equips the aircraft with portable, on-aircraft 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 conditions.

**PROJECTED FINANCIAL PLAN:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> | 1.292   | 1.379   | 1.359   |
| <b>TOTAL COST</b>               | 1.292   | 1.379   | 1.359   |

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| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002   |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>Precision Attack Systems Procurement</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** Precision Attack Systems Procurement

**MODELS OF AIRCRAFT APPLICABLE:** F-16 CJ Block 50

**DESCRIPTION/JUSTIFICATION:** The Advanced Targeting Pod (ATP) will initially supplement and eventually replace the current LANTIRN Targeting Pod with a new system featuring Third Generation FLIR technology, a high-altitude diode pumped laser, laser spot tracker, the potential for bomb damage assessment/reconnaissance capability as well as a pre-planned product improvement for enhanced combat identification. System will feature 2-level maintenances open architecture to facilitate capability upgrades. 98 Advanced Targeting Pods (ATP) will equip the F-16 CJ Block 50 aircraft. Performing required upgrades to the current LANTIRN Targeting Pod to ensure its viability past FY05 is cost-prohibitive. Technological advances featured by proposed follow-on ATPs would allow satisfaction of numerous requirements while providing cost of ownership savings over the current system. Greater standoff, improved resolution, and high system reliability will allow an ATP to perform across several mission areas, including interdiction, CAS, reconnaissance, and theater missile defense. Combat ID technology will reduce fratricide, and long-range target acquisition with improved sensor systems will expand weapons delivery envelopes for greater survivability and increased mission effectiveness.

**PROJECTED FINANCIAL PLAN:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> | 33.256  | 35.351  | 36.499  |
| <b>TOTAL COST</b>               | 33.256  | 35.351  | 36.499  |

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| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002   |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>Manned Destructive Suppression</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** Manned Destructive Suppression

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

**DESCRIPTION/JUSTIFICATION:** The AN/ASQ-213 pod is the key component of the High Speed Anti-Radiation Missile (HARM) Targeting System (HTS). The HTS pod senses radar emissions and provides targeting information to the F-16 Block 50/52 pilot and the AGM-88 HARM Missile. HTS permits the HARM to be launched in the missiles' most lethal 'range known' mode. The F-16 HTS provides the only USAF HARM suppression of enemy air defenses (SEAD) capability since the retirement of the F-4G Wild Weasel in FY96. The Air Force has a critical shortage of HTS Pods. During Operation Allied Force (Kosovo) a significant portion of HTS assets were deployed causing home station aircrew training to cease due to lack of HTS pods. At least 30 additional HTS pods are required to fully equip the existing F-16 Block 50/52 fleet. FY 2001 funds were used to procure 31 new HTS R6 configured pods (contract awarded Feb 01).

**PROJECTED FINANCIAL PLAN:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> | 13.993  | 0.000   | 0.000   |
| <b>TOTAL COST</b>               | 13.993  | 0.000   | 0.000   |



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| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002   |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>NAVSTAR Global Positioning System (GPS) User Equipment</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**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-25, C-9, C-5 A/B, C-21A, EC-18B, E-3, E-4 , 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 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:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> |         |         |         |
| Non-recurring/Integration       | 36.933  | 26.272  | 17.619  |
| <b>TOTAL COST</b>               | 36.933  | 26.272  | 17.619  |

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| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002                                       |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 71</b> | P-1 Line Item Nomenclature<br><b>Pollution Prevention</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**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 Order 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, enhance hazardous material management practices, hazardous waste minimization efforts, and opportunity assessments to identify pollution prevention opportunities.

**PROJECTED FINANCIAL PLAN:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> | 2.768   | 2.924   | 2.260   |
| <b>TOTAL COST</b>               | 2.768   | 2.924   | 2.260   |

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. 71**

**Reconnaissance Program**

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MISCELLANEOUS PRODUCTION CHARGES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** Reconnaissance Program

**MODELS OF AIRCRAFT APPLICABLE:** N/A

**DESCRIPTION/JUSTIFICATION:** Defense Airborne Reconnaissance Program (DARP). Information pertaining to DARP programs is classified and available on a need-to-know basis.

**PROJECTED FINANCIAL PLAN:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> | 0.000   | 13.538  | 21.843  |
| <b>TOTAL COST</b>               | 0.000   | 13.538  | 21.843  |

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| <b>Exhibit P-40, Budget Item Justification</b>  |         |         |         |         |         | Date: February 2002   |         |  |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 72</b> |         |         |         |         |         | P-1 Line Item Nomenclature<br><b>Common Electronic Countermeasures (CECM)</b> |         |  |
|   | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006   | FY 2007 |  |
| Proc Qty  |         |         |         |         |         |   |         |  |
| Total Proc Cost (\$ M)  | 4.792   | 1.200   | 1.182   | 0.000   | 0.000   | 0.000   | 0.000   |  |

**Description**  
 These programs provide for electronic countermeasures and related support equipment which: (1) is not directly related to other procurement line items in this appropriation; (2) cannot be reasonably allocated and charged to other procurement line items in this appropriation; and (3) can be managed as separate end items.

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| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002   |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 72</b> | P-1 Line Item Nomenclature<br><b>Common Electronic Countermeasures (CECM)</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
COMMON ELECTRONICS COUNTERMEASURES FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** Common Electronic Countermeasures (CECM)

**MODELS OF AIRCRAFT APPLICABLE:** A-10, F-16 and Target Drones (QF-4 & BQM-34)

**DESCRIPTION/JUSTIFICATION:**  
 Program provides sustainment/modernization of ALQ-131 and 184 EW pods (primary self-protection equipment for A-10s and F-16s) and related support equipment.  
  
 Program procures ALQ-188B and DLQ-9 electronic attack pods for target drones. Pods simulate threat aircraft electronic countermeasures and jamming capabilities.

**PROJECTED FINANCIAL PLAN:**

|   | FY 2001 | FY 2002 | FY 2003 |
|---|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b>           |         |         |         |
| ALQ-131 and 184 EW pods                   | 4.792   | 0.000   |         |
| ALQ-188B and DLQ-9 electronic attack pods | 0.000   | 1.200   | 1.182   |
| <b>TOTAL COST</b>                         | 4.792   | 1.200   | 1.182   |

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|---|---------|---------|---------|---------|---------|---------|---|--|
| <b>Exhibit P-40, Budget Item Justification</b>  |         |         |         |         |         |         | Date: February 2002   |  |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 74</b> |         |         |         |         |         |         | P-1 Line Item Nomenclature<br><b>Defense Airborne Reconnaissance Program (DARP)</b> |  |
|   | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007   |  |
| Proc Qty  |         |         |         |         |         |         |   |  |
| Total Proc Cost (\$ M)  | 5.964   | 90.036  | 83.751  | 83.016  | 63.104  | 69.882  | 65.670  |  |

**Description**

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

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| <b>Exhibit P-1900, Fact Sheet</b>   | Date: February 2002   |
| Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number<br><b>Aircraft Procurement, Air Force, Budget Activity 07, Aircraft Support Equipment and Facilities, Item No. 74</b> | P-1 Line Item Nomenclature<br><b>Defense Airborne Reconnaissance Program (DARP)</b> |

**FY 2003 PRESIDENT'S BUDGET REQUEST  
MANNED RECONNAISSANCE SYSTEMS FACT SHEET  
(Dollars in Millions)**

**PROJECT TITLE:** Defense Airborne Reconnaissance Program (DARP)

**MODELS OF AIRCRAFT APPLICABLE:** N/A

**DESCRIPTION/JUSTIFICATION:** Information pertaining to DARP programs is classified and available on a need-to-know basis

**PROJECTED FINANCIAL PLAN:**

|                                 | FY 2001 | FY 2002 | FY 2003 |
|---------------------------------|---------|---------|---------|
| <b>BASIS FOR COST ESTIMATE:</b> | 5.964   | 90.036  | 83.751  |
| <b>TOTAL COST</b>               | 5.964   | 90.036  | 83.751  |