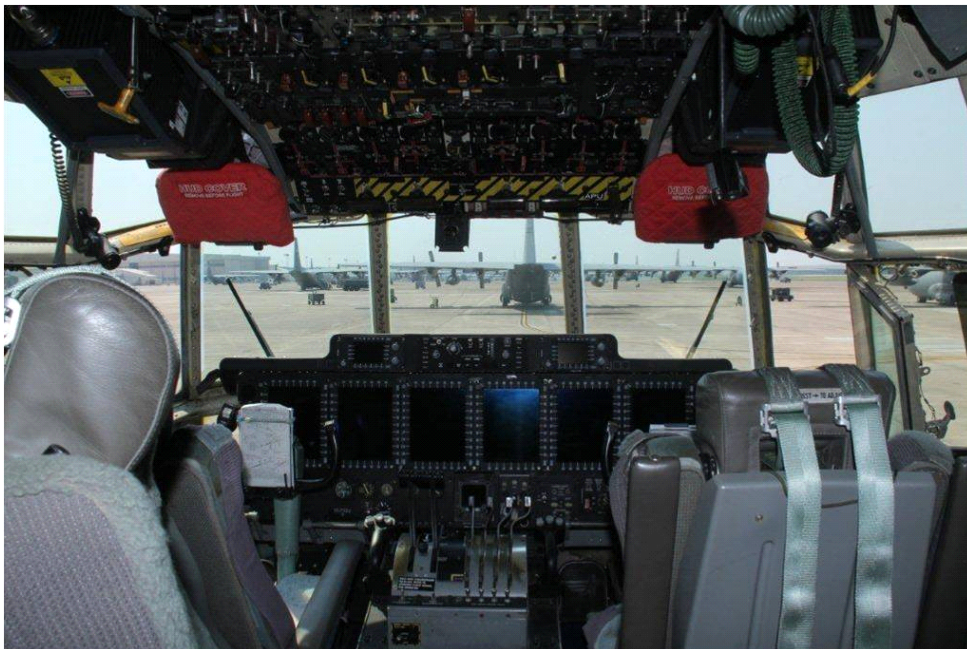




Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-298



C-130 AMP

As of December 31, 2011

Defense Acquisition Management
Information Retrieval
(DAMIR)

UNCLASSIFIED

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Program Information

Designation And Nomenclature (Popular Name)

C-130 Avionics Modernization Program (C-130 AMP)

DoD Component

Air Force

Responsible Office

Responsible Office

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Date Assigned April 1, 2011

References

SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated April 18, 2010

Approved APB

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated April 18, 2010

Mission and Description

The C-130 Avionics Modernization Program (AMP) consolidates and installs the mandated Air Force Navigation/Safety modifications, the Communications Navigation Surveillance/Air Traffic Management (CNS/ATM) capabilities, and the C-130 Broad Area Review requirements on 221 of the Air Force's Combat Delivery C-130s. These mandated modifications are incorporated with various other Reliability, Maintainability, and Sustainability upgrades to include: installation of fleet-wide radars, aircrew displays, dual autopilots, dual flight management systems and HF/UHF/VHF radios/data links. AMP will allow this fleet complete access to the CNS/ATM-mandated national and international air space for the foreseeable future.

This fleet consists of three (3) different mission design series (MDS) aircraft to be modified by the AMP (C-130 H2, H2.5, and H3). Within each of these MDSs multiple variants exist among the aircraft that will be modified with AMP. Today, these different models and cockpit configurations create significant logistics support and aircrew training inefficiencies. Also, these differences greatly complicate aircrew and aircraft scheduling and interoperability at forward operating locations. C-130 AMP standardizes the cockpit configurations and avionics suites for these different variants into a single cockpit configuration by installing a core avionics package with a common cockpit layout, thus eliminating many of these significant logistics, interoperability, and training problems.

Executive Summary

The C-130 AMP was canceled in the FY 2013 President's Budget, which results in the program being greater than 90 percent expended and delivered. Therefore, pursuant to section 2432 of Title 10, United State Code, this will be the final SAR for the program. Program cancellation also requires Congressional Nunn-McCurdy notification.

As a result of the cancellation of the C-130 AMP, the Program Acquisition Unit Cost (PAUC) increased 851% and Average Procurement Unit Cost (APUC) increased 292% resulting in a critical Nunn-McCurdy breach.

Dedicated Operational Test and Evaluation (OT&E) Status - C-130 IOT&E has been indefinitely delayed due to pending cancellation.

- Operational Test and Evaluation Certificate signed December 2011; Military Flight Release signed January 2012.

- LRIP 1 (AMP #4) completed installation at Warner-Robins Air Logistics Center and delivered to Little Rock, AFB January 3, 2012; LRIP 2's (AMP #5) estimated delivery is March 2012

Source Familiarization Phase (SFP) source selection process expired December 2011.

There are no software-related issues with the program at this time.

Threshold Breaches

| APB Breaches | |
|--------------|--|
|--------------|--|

| | | |
|--------------------|-------------|-------------------------------------|
| Schedule | | <input checked="" type="checkbox"/> |
| Performance | | <input type="checkbox"/> |
| Cost | RDT&E | <input type="checkbox"/> |
| | Procurement | <input type="checkbox"/> |
| | MILCON | <input type="checkbox"/> |
| | Acq O&M | <input type="checkbox"/> |
| Unit Cost | PAUC | <input checked="" type="checkbox"/> |
| | APUC | <input checked="" type="checkbox"/> |

Explanation of Breach

The Schedule Breach was reported in December 2010 SAR.

The FY 2013 President's Budget canceled C-130 AMP. This results in both PAUC and APUC Unit Cost APB breaches, as well as critical Nunn-McCurdy breaches.

| Nunn-McCurdy Breaches | |
|-----------------------|--|
|-----------------------|--|

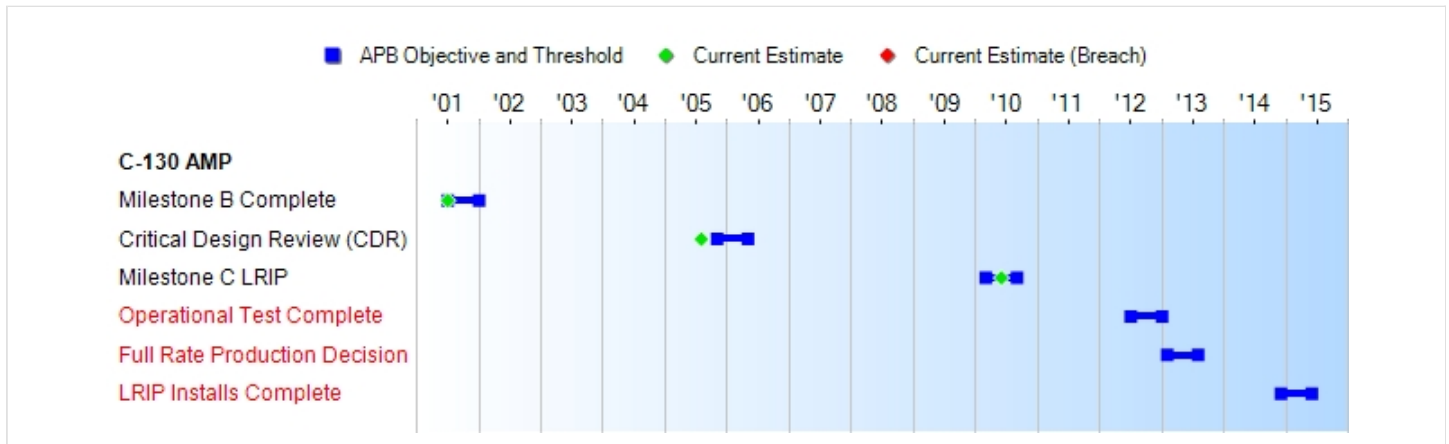
Current UCR Baseline

| | |
|------|----------|
| PAUC | Critical |
| APUC | Critical |

Original UCR Baseline

| | |
|------|----------|
| PAUC | Critical |
| APUC | Critical |

Schedule



| Milestones | SAR Baseline Prod Est | Current APB Production Objective/Threshold | | Current Estimate | |
|-------------------------------|-----------------------|--|----------|------------------|--------|
| Milestone B Complete | JUL 2001 | JUL 2001 | JAN 2002 | JUL 2001 | |
| Critical Design Review (CDR) | NOV 2005 | NOV 2005 | MAY 2006 | AUG 2005 | |
| Milestone C LRIP | MAR 2010 | MAR 2010 | SEP 2010 | JUN 2010 | |
| Operational Test Complete | JUL 2012 | JUL 2012 | JAN 2013 | N/A ¹ | (Ch-1) |
| Full Rate Production Decision | FEB 2013 | FEB 2013 | AUG 2013 | N/A ¹ | (Ch-1) |
| LRIP Installs Complete | DEC 2014 | DEC 2014 | JUN 2015 | N/A ¹ | (Ch-1) |

¹APB Breach

Change Explanations

(Ch-1) Program cancellation negates the need for Current Estimates for Operational Test Complete, Full Rate Production Decision, and LRIP Installs Complete milestones.

Performance

| Characteristics | SAR Baseline Prod Est | Current APB Production Objective/Threshold | | Demonstrated Performance | Current Estimate |
|---------------------------------|---|---|---|--|---|
| CNS/ATM & Nav-Safety Compliance | Meet technical performance based standards for RNP and RNAV airspace IAW 2005 world- wide CNS/ATM standards as they apply to C-130 operations. Comply with Air Force Nav- Safety Master Plan requirements. | Meet technical performance based standards for RNP and RNAV airspace IAW 2005 world- wide CNS/ATM standards as they apply to C-130 operations. Comply with Air Force Nav- Safety Master Plan requirements. | Meet technical performance based standards for RNP and RNAV airspace IAW 2005 world- wide CNS/ATM standards as they apply to C-130 operations. Comply with Air Force Nav- Safety Master Plan requirements. | Navigation system Accuracy Criteria: Cross track and along-track error of <1 nautical miles 95% of the time, meets RNP-1, Basic RNAV, and precision area navigation operations. Result: Parameters met on the ground. Ref: 2 May 08 AFOTEC OA Report | Meet technical performance based standards for RNP and RNAV airspace IAW 2005 world-wide CNS/ATM standards as they apply to C-130 operations. Comply with Air Force Nav-Safety Master Plan requirements. |
| Baseline Cockpit Configuration | The cockpit avionics architecture on all combat delivery aircraft shall be optimized to ensure the aircraft can effectively execute current missions throughout the world with a basic cockpit crew of no greater than two pilots and one flight engineer | The cockpit avionics architecture on all combat delivery aircraft shall be optimized to ensure the aircraft can effectively execute current missions throughout the world with a basic cockpit crew of no greater than two pilots and one flight engineer | The cockpit avionics architecture on all combat delivery aircraft shall be optimized to ensure the aircraft can effectively execute current missions throughout the world with a basic cockpit crew of no greater than two pilots and one flight engineer | Percentage of Successful Arrivals Criteria: > or = to 90% of missions meet AMC Instruction 10-202, Vol 6 requirements and applicable AF Instructions. Result: 85% successful. Ref: 2 May 08 AFOTEC OA report. Human factor | The cockpit avionics architecture on all combat delivery aircraft shall be optimized to ensure the aircraft can effectively execute current missions throughout the world with a basic cockpit crew of no greater than two pilots and one flight engineer |

| | | | | | |
|-----------|---|---|--|--|---|
| | from their respective crew positions. | from their respective crew positions. | from their respective crew positions. | workload assessments; Integrated System Evaluation Jul - Aug 09 Boeing final human factors test complete - Aug 09 Final Air Force Flight Test Center Human Factors complete - Dec 09 | from their respective crew positions. |
| Net Ready | The system must fully support execution of all operational activities identified in the applicable joint and system integrated architectures and the system must satisfy the technical requirements for Net-Centric military operations to include 1) DISR mandated GIG IT standards and profiles identified in the TV-1, 2) DISR mandated GIG KIPs identified in | The system must fully support execution of all operational activities identified in the applicable joint and system integrated architectures and the system must satisfy the technical requirements for Net-Centric military operations to include 1) DISR mandated GIG IT standards and profiles identified in the TV-1, 2) DISR mandated GIG KIPs identified in | The system must fully support execution of joint critical operational activities identified in the applicable joint and system integrated architectures and the system must satisfy the technical requirements for transition to Net-Centric military operations to include 1) DISR mandated GIG IT standards and profiles identified in the TV-1, 2) DISR mandated GIG KIPs | TBD | The system must fully support execution of all operational activities identified in the applicable joint and system integrated architectures and the system must satisfy the technical requirements for Net-Centric military operations to include 1) DISR mandated GIG IT standards and profiles identified in the TV-1, 2) DISR mandated GIG KIPs identified in |

| | | | | | |
|---|--|--|---|---|--|
| | <p>the KIP declaration table, 3) NCOW RM Enterprise Services 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an ATO by the DAA and 5) Operationally effective information exchanges; and mission critical performance and information assurance attributes, data correctness, data availability, and consistent data processing specified in the applicable joint and system integrated architecture views.</p> | <p>the KIP declaration table, 3) NCOW RM Enterprise Services 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an ATO by the DAA and 5) Operationally effective information exchanges; and mission critical performance and information assurance attributes, data correctness, data availability, and consistent data processing specified in the applicable joint and system integrated architecture views.</p> | <p>identified in the KIP declaration table, 3) NCOW RM Enterprise Services 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an IATO by the DAA and 5) Operationally effective information exchanges; and mission critical performance and information assurance attributes, data correctness, data availability, and consistent data processing specified in the applicable joint and system integrated architecture views.</p> | | <p>the KIP declaration table, 3) NCOW RM Enterprise Services 4) Information assurance requirements including availability, integrity, authentication, confidentiality, and non-repudiation, and issuance of an ATO by the DAA and 5) Operationally effective information exchanges; and mission critical performance and information assurance attributes, data correctness, data availability, and consistent data processing specified in the applicable joint and system integrated architecture views.</p> |
| Integrated Defensive System Situational Awareness | Use inputs from the AAR-47 | Use inputs from the AAR-47 | Use inputs from the AAR-47 | Initial ground and range flight testing | Use inputs from the AAR-47 |

| | | | | | |
|---|---|---|---|--|---|
| | MWS, ALE-47 CMDS, and ALR-69 RWR to generate an integrated defensive systems capability that displays proper signal detection, provides appropriate audio tones and advisory messages, triggers the correct automatic dispense responses, and provides a centralized defensive systems resource status. | MWS, ALE-47 CMDS, and ALR-69 RWR to generate an integrated defensive systems capability that displays proper signal detection, provides appropriate audio tones and advisory messages, triggers the correct automatic dispense responses, and provides a centralized defensive systems resource status. | MWS, ALE-47 CMDS, and ALR-69 RWR to generate an integrated defensive systems capability that displays proper signal detection, provides appropriate audio tones and advisory messages, triggers the correct automatic dispense responses, and provides a centralized defensive systems resource status. | completed. | MWS, ALE-47 CMDS, and ALR-69 RWR to generate an integrated defensive systems capability that displays proper signal detection, provides appropriate audio tones and advisory messages, triggers the correct automatic dispense responses, and provides a centralized defensive systems resource status. |
| Operations in a Chemical/Biological Environment | Aircraft controls and systems modified by AMP shall be operable without degradation or operational constraints in a chemical/ biological environment with aircrew Chemical/ Biological protective clothing | Aircraft controls and systems modified by AMP shall be operable without degradation or operational constraints in a chemical/ biological environment with aircrew Chemical/ Biological protective clothing | Aircraft controls and systems modified by AMP shall be operable without degradation or operational constraints in a chemical/ biological environment with aircrew Chemical/ Biological protective clothing | Chem/Bio gear test accomplished successfully (per AFOTEC). Ref: 4 December 2008 test on AMP 1 at EAFB. | Aircraft controls and systems modified by AMP shall be operable without degradation or operational constraints in a chemical / biological environment with aircrew Chemical / Biological protective clothing. |
| Material Availability | AMP NMCAMP rate shall be less than or equal to 2.2 | AMP NMCAMP rate shall be less than or equal to 2.2 | AMP NMCAMP rate shall be less than or equal to 2.2 | AFOTEC assessment exceeds requirement; 1.4% | AMP NMCAMP rate shall be less than or equal to 2.2 |

| | | | | | |
|--|---|---|---|-------------------------------------|--|
| | percent for C-130 H2/H2.5/ H3 fleet avionics work unit codes. | percent for C-130 H2/H2.5/ H3 fleet avionics work unit codes. | percent for C-130 H2/H2.5/ H3 fleet avionics work unit codes. | preliminary verification by AFOTEC. | percent for C-130 H2/H2.5/H3 fleet avionics work unit codes. |
|--|---|---|---|-------------------------------------|--|

Requirements Source: Capability Production Document (CPD) for C-130 AMP Initial Increment (V 3.1) March 4, 2008 (Joint Requirements Oversight Council Memo 051-08)

Acronyms And Abbreviations

AFI - Air Force Instruction
 AFOTEC - Air Force Operational Test & Evaluation Center
 AFROCC - Air Force Requirements for Operational Capability Council
 AMC - Air Mobility Command
 ASACM - Advanced Situational Awareness and Countermeasures
 ATO - Approval to Operate
 CJCSI - Chairman Joint Chief of Staff Instruction
 CMDS - Countermeasures Dispenser System
 CNS/ATM - Communications, Navigation Surveillance/Air Traffic Management
 CPD - Capabilities Production Document
 DAA - Designated Approval Authority
 DISR - DOD Information Technology Standards and Profile Registry
 EAFB - Edwards Air Force Base
 GIG - Global Information Grid
 IATO - Interim Approval to Operate
 IAW - In Accordance With
 IER - Information Exchange Requirement
 IP - Internet Protocol
 IT - Information Technology
 JITC - Joint Interoperability Test Command
 JTRS - Joint Tactical Radio System
 KIP - Key Interface Profiles
 KPP - Key Performance Parameter
 NCOW RM - Net Centric Operations and Warfare Reference Model
 NMCAMP - Not Mission Capable AMP
 OA - Operational Assessment
 RNAV - Area Navigation
 RNP - Required Navigation Performance
 RWR - Radar Warning Receiver
 TBD - To Be Determined
 USAF - United States Air Force

Change Explanations

None

Memo

OSD (AT&L) Acquisition Decision Memorandum (June 4, 2007) directed restructure of C-130 AMP to modernize C-130H2, C-130H2.5 and C-130H3 Mission Design Series only, eliminating Special Mission aircraft requirements. As a result, Performance Characteristics specifically related to Special Mission requirements have been deleted.

AMC's Capability Production Document (CPD) for C-130 AMP [Capability Production Document for C-130 AMP Initial Increment (V 3.1)], prepared for Milestone C Decision, identifies six Key Performance Parameters (KPPs) essential to mission accomplishment (Ref Table 6.1 in CPD) and are updates to existing KPPs. The existing Acquisition Performance Baseline Performance Characteristics have been deleted and replaced with the six KPPs identified in the CPD.

Time and Accuracy Standards defined in AFI 11-2C-130, Vol 2; cockpits shall meet the requirements of the USAF flight instrumentation endorsement process outlined in AFI 11-202 Vol. III, April 5, 2006.

Net Ready KPP: Defined in CJCSI 6212.01D, March 8, 2006. C-130 AMP will not meet the full intent of the Net-Ready KPP until an IP-enabled radio (e.g. JTRS) is developed, validated and integrated into the architecture. However, 85-90% of the requirement can be met with the AMP design. In addition, the architecture has been designed to accommodate JTRS integration in the future. The incremental approach to satisfying this requirement has been coordinated with JITC, AFOTEC, the Joint Staff, and AMC.

Material Availability KPP: Not Mission Capable rate is calculated for the AMP work unit codes as described in AMC Supplement 1 to AFI 21-101 using the following formula: Not Mission Capable AMP (NMCAMP) is equal to the NMCAMP-Maintenance hours plus NMCAMP-both basic plus maintenance hours plus NMCAMP-supply hours divided by possessed hours times 100. AFOTEC assessment exceeds requirement; 1.4% preliminary verification.

Track To Budget**RDT&E**

| | | | | |
|-----------|------------------------------|---|-------------|--------|
| APPN 3600 | BA 07 | PE 0401115F | (Air Force) | |
| | Project 4885 | Air Force/Avionics Modernization Program (AMP) | | (Sunk) |
| | 2012 is final year of 3600 | | | |
| APPN 0400 | BA 07 | PE 0406404D | (DoD) | |
| | Project F100CA | DoD (SOF) | | (Sunk) |
| | 2006 was final year of 0400. | | | |

Procurement

| | | | | |
|-----------|------------|-------------|-------------|--------|
| APPN 3010 | BA 05 | PE 0401115F | (Air Force) | |
| | ICN C13000 | Air Force | (Shared) | (Sunk) |
| | ICN C1300A | Air Force | | (Sunk) |

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

| Appropriation | BY2010 \$M | | | BY2010 \$M | TY \$M | | |
|----------------|-----------------------|--|------------------|------------------|-----------------------|----------------------------------|------------------|
| | SAR Baseline Prod Est | Current APB Production Objective/Threshold | Current Estimate | Current Estimate | SAR Baseline Prod Est | Current APB Production Objective | Current Estimate |
| RDT&E | 1874.9 | 1874.9 | 2062.4 | 1859.3 | 1753.3 | 1753.3 | 1741.5 |
| Procurement | 4055.3 | 4055.3 | 4460.8 | 437.3 | 4547.0 | 4547.0 | 458.1 |
| Flyaway | 3602.3 | -- | -- | 80.3 | 4043.4 | -- | 81.2 |
| Recurring | 3602.3 | -- | -- | 80.3 | 4043.4 | -- | 81.2 |
| Non Recurring | 0.0 | -- | -- | 0.0 | 0.0 | -- | 0.0 |
| Support | 453.0 | -- | -- | 357.0 | 503.6 | -- | 376.9 |
| Other Support | 362.9 | -- | -- | 354.0 | 402.4 | -- | 373.9 |
| Initial Spares | 90.1 | -- | -- | 3.0 | 101.2 | -- | 3.0 |
| MILCON | 0.0 | 0.0 | -- | 0.0 | 0.0 | 0.0 | 0.0 |
| Acq O&M | 0.0 | 0.0 | -- | 0.0 | 0.0 | 0.0 | 0.0 |
| Total | 5930.2 | 5930.2 | N/A | 2296.6 | 6300.3 | 6300.3 | 2199.6 |

Confidence Levels for Current Acquisition Program Baseline Cost: The Independent Cost Estimate to support the C-130 AMP Milestone C decision in March 2010, like all life-cycle cost estimates previously performed by the Cost Assessment and Program Evaluation, is built upon a product-oriented work breakdown structure, based on historical actual cost information to the maximum extent possible, and, most importantly, based on conservative assumptions that are consistent with actual demonstrated contractor and government performance for a series of acquisition programs in which the Department has been successful.

It is difficult to calculate mathematically the precise confidence levels associated with life-cycle cost estimates prepared for Major Defense Acquisition Programs. Based on the rigor in methods used in building estimates, the strong adherence to the collection and use of historical cost information, and the review of applied assumptions, we project that it is about equally likely that the estimate will prove too low or too high for execution of the program described.

In December 2011, the Program Office Estimate assessed both the development and production programs as relatively low risk: the C-130 AMP has entered Low Rate Initial Production with little technology risk, all technology readiness ratings seven or higher, and the requirements well defined.

| Quantity | SAR Baseline Prod Est | Current APB Production | Current Estimate |
|-------------|-----------------------|------------------------|------------------|
| RDT&E | | 3 | 3 |
| Procurement | | 218 | 6 |
| Total | | 221 | 9 |

The unit of measure is a modified aircraft.

Cost and Funding**Funding Summary**

Appropriation and Quantity Summary
FY2013 President's Budget / December 2011 SAR (TY\$ M)

| Appropriation | Prior | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | To Complete | Total |
|----------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|--------------|
| RDT&E | 1735.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1741.5 |
| Procurement | 250.0 | 208.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 458.1 |
| MILCON | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Acq O&M | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| PB 2013 Total | 1985.0 | 214.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2199.6 |
| PB 2012 Total | 2100.8 | 260.1 | 267.1 | 372.8 | 557.2 | 699.5 | 739.1 | 1459.1 | 6455.7 |
| Delta | -115.8 | -45.5 | -267.1 | -372.8 | -557.2 | -699.5 | -739.1 | -1459.1 | -4256.1 |

The FY 2013 President's Budget cancelled C-130 AMP.

| Quantity | Undistributed | Prior | FY2012 | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | To Complete | Total |
|-----------------|----------------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|--------------|
| Development | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Production | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| PB 2013 Total | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| PB 2012 Total | 3 | 10 | 8 | 8 | 20 | 32 | 39 | 39 | 62 | 221 |
| Delta | 0 | -4 | -8 | -8 | -20 | -32 | -39 | -39 | -62 | -212 |

Cost and Funding

Annual Funding By Appropriation

Annual Funding TY\$

0400 | RDT&E | Research, Development, Test, and Evaluation, Defense-Wide

| Fiscal Year | Quantity | End Item Recurring Flyaway TY \$M | Non End Item Recurring Flyaway TY \$M | Non Recurring Flyaway TY \$M | Total Flyaway TY \$M | Total Support TY \$M | Total Program TY \$M |
|-----------------|----------|-----------------------------------|---------------------------------------|------------------------------|----------------------|----------------------|----------------------|
| 2001 | -- | -- | -- | -- | -- | -- | 6.7 |
| 2002 | -- | -- | -- | -- | -- | -- | 13.0 |
| 2003 | -- | -- | -- | -- | -- | -- | 49.1 |
| 2004 | -- | -- | -- | -- | -- | -- | 62.4 |
| 2005 | -- | -- | -- | -- | -- | -- | 65.3 |
| 2006 | -- | -- | -- | -- | -- | -- | 61.4 |
| Subtotal | -- | -- | -- | -- | -- | -- | 257.9 |

Annual Funding BY\$**0400 | RDT&E | Research, Development, Test, and Evaluation, Defense-Wide**

| Fiscal Year | Quantity | End Item Recurring Flyaway BY 2010 \$M | Non End Item Recurring Flyaway BY 2010 \$M | Non Recurring Flyaway BY 2010 \$M | Total Flyaway BY 2010 \$M | Total Support BY 2010 \$M | Total Program BY 2010 \$M |
|--------------------|-----------------|---|---|--|--------------------------------------|--------------------------------------|--------------------------------------|
| 2001 | -- | -- | -- | -- | -- | -- | 7.9 |
| 2002 | -- | -- | -- | -- | -- | -- | 15.1 |
| 2003 | -- | -- | -- | -- | -- | -- | 56.3 |
| 2004 | -- | -- | -- | -- | -- | -- | 69.9 |
| 2005 | -- | -- | -- | -- | -- | -- | 71.1 |
| 2006 | -- | -- | -- | -- | -- | -- | 64.9 |
| Subtotal | -- | -- | -- | -- | -- | -- | 285.2 |

Annual Funding TY\$

3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force

| Fiscal Year | Quantity | End Item Recurring Flyaway TY \$M | Non End Item Recurring Flyaway TY \$M | Non Recurring Flyaway TY \$M | Total Flyaway TY \$M | Total Support TY \$M | Total Program TY \$M |
|-----------------|----------|-----------------------------------|---------------------------------------|------------------------------|----------------------|----------------------|----------------------|
| 1999 | -- | -- | -- | -- | -- | -- | 1.7 |
| 2000 | -- | -- | -- | -- | -- | -- | 8.6 |
| 2001 | -- | -- | -- | -- | -- | -- | 60.3 |
| 2002 | -- | -- | -- | -- | -- | -- | 49.2 |
| 2003 | -- | -- | -- | -- | -- | -- | 122.7 |
| 2004 | -- | -- | -- | -- | -- | -- | 111.8 |
| 2005 | -- | -- | -- | -- | -- | -- | 155.9 |
| 2006 | -- | -- | -- | -- | -- | -- | 248.5 |
| 2007 | -- | -- | -- | -- | -- | -- | 182.4 |
| 2008 | -- | -- | -- | -- | -- | -- | 229.8 |
| 2009 | -- | -- | -- | -- | -- | -- | 161.8 |
| 2010 | -- | -- | -- | -- | -- | -- | 102.3 |
| 2011 | -- | -- | -- | -- | -- | -- | 42.1 |
| 2012 | -- | -- | -- | -- | -- | -- | 6.5 |
| Subtotal | 3 | -- | -- | -- | -- | -- | 1483.6 |

Annual Funding BY\$**3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force**

| Fiscal Year | Quantity | End Item Recurring Flyaway BY 2010 \$M | Non End Item Recurring Flyaway BY 2010 \$M | Non Recurring Flyaway BY 2010 \$M | Total Flyaway BY 2010 \$M | Total Support BY 2010 \$M | Total Program BY 2010 \$M |
|--------------------|-----------------|---|---|--|----------------------------------|----------------------------------|----------------------------------|
| 1999 | -- | -- | -- | -- | -- | -- | 2.1 |
| 2000 | -- | -- | -- | -- | -- | -- | 10.3 |
| 2001 | -- | -- | -- | -- | -- | -- | 71.1 |
| 2002 | -- | -- | -- | -- | -- | -- | 57.4 |
| 2003 | -- | -- | -- | -- | -- | -- | 141.1 |
| 2004 | -- | -- | -- | -- | -- | -- | 125.5 |
| 2005 | -- | -- | -- | -- | -- | -- | 170.6 |
| 2006 | -- | -- | -- | -- | -- | -- | 264.0 |
| 2007 | -- | -- | -- | -- | -- | -- | 188.8 |
| 2008 | -- | -- | -- | -- | -- | -- | 233.1 |
| 2009 | -- | -- | -- | -- | -- | -- | 162.0 |
| 2010 | -- | -- | -- | -- | -- | -- | 101.1 |
| 2011 | -- | -- | -- | -- | -- | -- | 40.8 |
| 2012 | -- | -- | -- | -- | -- | -- | 6.2 |
| Subtotal | 3 | -- | -- | -- | -- | -- | 1574.1 |

Annual Funding TY\$

3010 | Procurement | Aircraft Procurement, Air Force

| Fiscal Year | Quantity | End Item Recurring Flyaway TY \$M | Non End Item Recurring Flyaway TY \$M | Non Recurring Flyaway TY \$M | Total Flyaway TY \$M | Total Support TY \$M | Total Program TY \$M |
|-----------------|----------|-----------------------------------|---------------------------------------|------------------------------|----------------------|----------------------|----------------------|
| 2008 | 2 | 19.3 | -- | -- | 19.3 | 1.9 | 21.2 |
| 2009 | 4 | 61.9 | -- | -- | 61.9 | 69.7 | 131.6 |
| 2010 | -- | -- | -- | -- | -- | -- | -- |
| 2011 | -- | -- | -- | -- | -- | 97.2 | 97.2 |
| 2012 | -- | -- | -- | -- | -- | 208.1 | 208.1 |
| Subtotal | 6 | 81.2 | -- | -- | 81.2 | 376.9 | 458.1 |

Annual Funding BY\$**3010 | Procurement | Aircraft Procurement, Air Force**

| Fiscal Year | Quantity | End Item Recurring Flyaway BY 2010 \$M | Non End Item Recurring Flyaway BY 2010 \$M | Non Recurring Flyaway BY 2010 \$M | Total Flyaway BY 2010 \$M | Total Support BY 2010 \$M | Total Program BY 2010 \$M |
|--------------------|-----------------|---|---|--|----------------------------------|----------------------------------|----------------------------------|
| 2008 | 2 | 19.3 | -- | -- | 19.3 | 1.9 | 21.2 |
| 2009 | 4 | 61.0 | -- | -- | 61.0 | 68.6 | 129.6 |
| 2010 | -- | -- | -- | -- | -- | -- | -- |
| 2011 | -- | -- | -- | -- | -- | 92.3 | 92.3 |
| 2012 | -- | -- | -- | -- | -- | 194.2 | 194.2 |
| Subtotal | 6 | 80.3 | -- | -- | 80.3 | 357.0 | 437.3 |

Low Rate Initial Production

| | Initial LRIP Decision | Current Total LRIP |
|--------------------------|------------------------------|---------------------------|
| Approval Date | 7/27/2001 | 2/13/2012 |
| Approved Quantity | 50 | 2 |
| Reference | M/S B ADM | 2013 President's Budget |
| Start Year | 2005 | 2008 |
| End Year | 2014 | 2012 |

The first of two current Lot 1 LRIP aircraft (AMP #4) completed installation at Robins Air Force Base and delivered to Little Rock Air Force Base for Initial Operational Test & Evaluation (IOT&E) start in January 2012. The second (AMP #5) is scheduled for installation completion and delivery in March 2012. C-130 AMP IOT&E has been indefinitely postponed.

Quantity of 2 Current Total LRIP Approved exceeds 10% of total production quantity of 6 due to decrease of 212 aircraft from 218 in the FY 2013 President's Budget .

Foreign Military Sales

| Country | Date of Sale | Quantity | Total Cost \$M | Memo |
|---------|--------------|----------|----------------|---|
| Sweden | 1/31/2005 | 8 | 99.9 | On July 1, 2009 Sweden's Defense Materiel Administration sent an informal notification to the Assistant Secretary of the Air Force for International Affairs (SAF/IA) that the program had been canceled. The Program Office telephoned Boeing Long Beach in July 2009 to alert them of informal notification. The Program Office received a formal letter via SAF/IA in July 2009 and issued the termination letter to Boeing Long Beach in August 2009. Boeing issued a Termination Settlement Proposal in June 2010 in amount of \$25M. Settlement negotiations are still ongoing. |

Nuclear Cost

None

Unit Cost

Unit Cost Report

| | BY2010 \$M | BY2010 \$M | |
|-----------|---|------------------------------------|----------------|
| Unit Cost | Current UCR Baseline (APR 2010 APB) | Current Estimate (DEC 2011 SAR) | BY % Change |

Program Acquisition Unit Cost (PAUC)

| | | | |
|-----------|--------|---------|-----------------------------|
| Cost | 5930.2 | 2296.6 | |
| Quantity | 221 | 9 | |
| Unit Cost | 26.833 | 255.178 | +850.99 ¹ |

Average Procurement Unit Cost (APUC)

| | | | |
|-----------|--------|--------|-----------------------------|
| Cost | 4055.3 | 437.3 | |
| Quantity | 218 | 6 | |
| Unit Cost | 18.602 | 72.883 | +291.80 ¹ |

| | BY2010 \$M | BY2010 \$M | |
|-----------|---|------------------------------------|----------------|
| Unit Cost | Revised Original UCR Baseline (FEB 2008 APB) | Current Estimate (DEC 2011 SAR) | BY % Change |

Program Acquisition Unit Cost (PAUC)

| | | | |
|-----------|--------|---------|-----------------------------|
| Cost | 5610.8 | 2296.6 | |
| Quantity | 222 | 9 | |
| Unit Cost | 25.274 | 255.178 | +909.65 ¹ |

Average Procurement Unit Cost (APUC)

| | | | |
|-----------|--------|--------|-----------------------------|
| Cost | 3510.2 | 437.3 | |
| Quantity | 219 | 6 | |
| Unit Cost | 16.028 | 72.883 | +354.72 ¹ |

| | TY \$M | | |
|-----------|---|------------------------------------|----------------|
| Unit Cost | Current UCR Baseline (APR 2010 APB) | Current Estimate (DEC 2011 SAR) | TY % Change |

Program Acquisition Unit Cost (PAUC)

| | | | |
|-----------|--------|---------|---------|
| Cost | 6300.3 | 2199.6 | |
| Unit Cost | 28.508 | 244.400 | +757.30 |

Average Procurement Unit Cost (APUC)

| | | | |
|-----------|--------|--------|---------|
| Cost | 4547.0 | 458.1 | |
| Unit Cost | 20.858 | 76.350 | +266.05 |

| Unit Cost | TY \$M | | |
|---|--|---------------------------------|-------------|
| | Revised Original UCR Baseline (FEB 2008 APB) | Current Estimate (DEC 2011 SAR) | TY % Change |
| Program Acquisition Unit Cost (PAUC) | | | |
| Cost | 5910.1 | 2199.6 | |
| Unit Cost | 26.622 | 244.400 | +818.04 |
| Average Procurement Unit Cost (APUC) | | | |
| Cost | 3982.7 | 458.1 | |
| Unit Cost | 18.186 | 76.350 | +319.83 |

¹ Nunn-McCurdy Breach

The FY 2013 President's Budget cancelled C-130 AMP. The program is currently developing its cancellation plan.

Unit Cost Breach Data

| Changes from Previous SAR | \$M/Qty. | Percent |
|---------------------------|----------|---------|
| PAUC (BY \$M) | 255.178 | +833.69 |
| APUC (BY \$M) | 72.883 | +283.47 |
| PAUC Quantity | 9 | 0.00 |
| PAUC (TY \$M) | 244.400 | +736.67 |
| APUC (TY \$M) | 76.350 | +255.93 |

| Initial SAR Information DEC 2001 | BY2000 \$M | TY \$M |
|----------------------------------|------------|--------|
| Program Acquisition Cost | 3333.9 | 3965.4 |

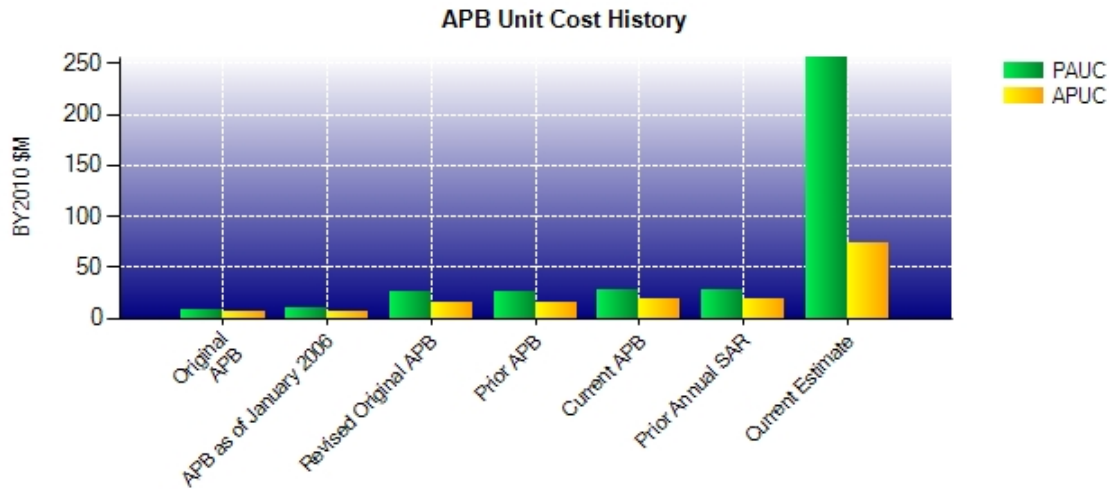
Unit Cost PAUC Changes

The FY 2013 President's Budget cancelled C-130 AMP.

Unit Cost APUC Changes

The FY 2013 President's Budget cancelled C-130 AMP.

Unit Cost History



| | Date | BY2010 \$M | | TY \$M | |
|-------------------------------|----------|------------|--------|---------|--------|
| | | PAUC | APUC | PAUC | APUC |
| Original APB | JUL 2001 | 7.767 | 6.497 | 7.640 | 6.538 |
| APB as of January 2006 | MAR 2003 | 9.662 | 7.201 | 9.376 | 7.208 |
| Revised Original APB | FEB 2008 | 25.274 | 16.028 | 26.622 | 18.186 |
| Prior APB | FEB 2008 | 25.274 | 16.028 | 26.622 | 18.186 |
| Current APB | APR 2010 | 26.833 | 18.602 | 28.508 | 20.858 |
| Prior Annual SAR | DEC 2010 | 27.330 | 19.006 | 29.211 | 21.451 |
| Current Estimate | DEC 2011 | 255.178 | 72.883 | 244.400 | 76.350 |

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY \$M)

| Initial PAUC Dev Est | Changes | | | | | | | | PAUC Prod Est |
|-------------------------|---------|-------|-------|-------|--------|-------|-------|--------|------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 7.640 | -1.393 | 5.276 | 1.385 | 0.351 | 13.620 | 0.000 | 1.629 | 20.868 | 28.508 |

Current SAR Baseline to Current Estimate (TY \$M)

| PAUC Prod Est | Changes | | | | | | | | PAUC Current Est |
|------------------|---------|---------|--------|-------|---------|-------|---------|---------|---------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 28.508 | 7.744 | 238.670 | -5.989 | 0.722 | -10.433 | 0.000 | -14.822 | 215.892 | 244.400 |

Initial SAR Baseline to Current SAR Baseline (TY \$M)

| Initial APUC Dev Est | Changes | | | | | | | | APUC Prod Est |
|-------------------------|---------|-------|-------|-------|-------|-------|-------|--------|------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 6.538 | -1.455 | 3.351 | 0.858 | 0.000 | 9.915 | 0.000 | 1.651 | 14.320 | 20.858 |

Current SAR Baseline to Current Estimate (TY \$M)

| APUC Prod Est | Changes | | | | | | | | APUC Current Est |
|------------------|---------|--------|---------|-------|--------|-------|---------|--------|---------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 20.858 | 10.800 | 87.692 | -12.233 | 0.000 | -8.533 | 0.000 | -22.233 | 55.492 | 76.350 |

SAR Baseline History

| Item/Event | SAR Planning Estimate (PE) | SAR Development Estimate (DE) | SAR Production Estimate (PdE) | Current Estimate |
|-----------------------------|----------------------------------|-------------------------------------|-------------------------------------|---------------------|
| Milestone A | N/A | N/A | N/A | N/A |
| Milestone B | N/A | N/A | JUL 2001 | JUL 2001 |
| Milestone C | N/A | JAN 2007 | MAR 2010 | JUN 2010 |
| IOC | N/A | N/A | N/A | N/A |
| Total Cost (TY \$M) | N/A | 3965.4 | 6300.3 | 2199.6 |
| Total Quantity | N/A | 519 | 221 | 9 |
| Prog. Acq. Unit Cost (PAUC) | N/A | 7.640 | 28.508 | 244.400 |

Cost Variance**Cost Variance Summary**

| Summary Then Year \$M | | | | |
|------------------------------|------------------|-------------|---------------|--------------|
| | RDT&E | Proc | MILCON | Total |
| SAR Baseline (Prod Est) | 1753.3 | 4547.0 | -- | 6300.3 |
| Previous Changes | | | | |
| Economic | +3.1 | -5.2 | -- | -2.1 |
| Quantity | -- | -- | -- | -- |
| Schedule | +19.5 | +60.9 | -- | +80.4 |
| Engineering | +6.5 | -- | -- | +6.5 |
| Estimating | -3.1 | +40.2 | -- | +37.1 |
| Other | -- | -- | -- | -- |
| Support | -- | +33.5 | -- | +33.5 |
| Subtotal | +26.0 | +129.4 | -- | +155.4 |
| Current Changes | | | | |
| Economic | +1.8 | +70.0 | -- | +71.8 |
| Quantity | -- | -3895.7 | -- | -3895.7 |
| Schedule | -- | -134.3 | -- | -134.3 |
| Engineering | -- | -- | -- | -- |
| Estimating | -39.6 | -91.4 | -- | -131.0 |
| Other | -- | -- | -- | -- |
| Support | -- | -166.9 | -- | -166.9 |
| Subtotal | -37.8 | -4218.3 | -- | -4256.1 |
| Total Changes | -11.8 | -4088.9 | -- | -4100.7 |
| CE - Cost Variance | 1741.5 | 458.1 | -- | 2199.6 |
| CE - Cost & Funding | 1741.5 | 458.1 | -- | 2199.6 |

| Summary Base Year 2010 \$M | | | | |
|-----------------------------------|------------------|-------------|---------------|--------------|
| | RDT&E | Proc | MILCON | Total |
| SAR Baseline (Prod Est) | 1874.9 | 4055.3 | -- | 5930.2 |
| Previous Changes | | | | |
| Economic | -- | -- | -- | -- |
| Quantity | -- | -- | -- | -- |
| Schedule | +18.4 | +17.7 | -- | +36.1 |
| Engineering | +6.5 | -- | -- | +6.5 |
| Estimating | -3.1 | +34.8 | -- | +31.7 |
| Other | -- | -- | -- | -- |
| Support | -- | +35.4 | -- | +35.4 |
| Subtotal | +21.8 | +87.9 | -- | +109.7 |
| Current Changes | | | | |
| Economic | -- | -- | -- | -- |
| Quantity | -- | -3384.5 | -- | -3384.5 |
| Schedule | -- | -112.1 | -- | -112.1 |
| Engineering | -- | -- | -- | -- |
| Estimating | -37.4 | -77.9 | -- | -115.3 |
| Other | -- | -- | -- | -- |
| Support | -- | -131.4 | -- | -131.4 |
| Subtotal | -37.4 | -3705.9 | -- | -3743.3 |
| Total Changes | -15.6 | -3618.0 | -- | -3633.6 |
| CE - Cost Variance | 1859.3 | 437.3 | -- | 2296.6 |
| CE - Cost & Funding | 1859.3 | 437.3 | -- | 2296.6 |

Previous Estimate: December 2010

| RDT&E | \$M | |
|---|------------------|------------------|
| | Base Year | Then Year |
| Current Change Explanations | | |
| Revised escalation indices. (Economic) | N/A | +1.8 |
| Decrease due to Air Force withholds for higher priority programs. (Estimating) | -18.4 | -19.4 |
| Decrease due to program cancellation of funding in FY 2013 President's Budget. (Estimating) | -17.5 | -18.7 |
| Adjustment for current and prior escalation. (Estimating) | -1.5 | -1.5 |
| RDT&E Subtotal | -37.4 | -37.8 |

| Procurement | \$M | |
|---|------------------|------------------|
| | Base Year | Then Year |
| Current Change Explanations | | |
| Revised escalation indices. (Economic) | N/A | +70.0 |
| Total Quantity variance resulting from a decrease of 212 aircraft from 218 to 6. (Subtotal) | -3734.9 | -4305.7 |
| Quantity variance resulting from a decrease of 212 aircraft from 218 to 6. (Quantity) | (-3548.8) | (-4085.5) |
| Allocation to Schedule resulting from Quantity change. (Schedule) (QR) | (-112.1) | (-132.8) |
| Allocation to Estimating resulting from Quantity change. (Estimating) (QR) | (-74.0) | (-87.4) |
| Additional Quantity variance resulting from Quantity change due to cancellation. (Quantity) | +164.3 | +189.8 |
| Decrease in Schedule variance due to rephasing of Low Rate Initial Production (LRIP) procurement. (Schedule) (QR) | 0.0 | -1.5 |
| Adjustment for current and prior escalation. (Estimating) | -3.9 | -4.0 |
| Decrease in Other Support due to rephasing of LRIP procurement. (Support) (QR) | -26.5 | -46.2 |
| Adjustment for current and prior escalation. (Support) | -1.5 | -1.7 |
| Decrease in Initial Spares resulting from Quantity change due to cancellation. (Support) | -103.4 | -119.0 |
| Procurement Subtotal | -3705.9 | -4218.3 |

(QR) Quantity Related

Contracts

Appropriation: RDT&E

| | |
|-----------------------|---|
| Contract Name | C-130 AMP (LRIP) |
| Contractor | THE BOEING COMPANY |
| Contractor Location | 2401 E. WARDLOW RD LONG BEACH, CA 90807-5309 |
| Contract Number, Type | FA8625-08-C-6481, FFP |
| Award Date | September 30, 2008 |
| Definitization Date | March 02, 2010 |

| Initial Contract Price (\$M) | | | Current Contract Price (\$M) | | | Estimated Price At Completion (\$M) | |
|------------------------------|---------|-----|------------------------------|---------|-----|-------------------------------------|-----------------|
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 36.7 | N/A | 2 | 172.3 | N/A | 6 | 172.3 | 172.3 |

Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this FFP contract.

Contract Comments

The difference between the initial contract price target and the current contract price target is due to Contract modifications

Delivered Quantity under Contract Deliveries means AMP kits from Boeing. The first Low Rate Initial Production aircraft (AMP #4) delivered to Little Rock Air Force Base on January 3, 2012. The second (AMP #5) is completing its installation modification at Warner Robins Air Logistics Center with an estimated delivery during March 2012.

Deliveries and Expenditures

| Deliveries To Date | Plan To Date | Actual To Date | Total Quantity | Percent Delivered |
|------------------------------------|--------------|----------------|----------------|-------------------|
| Development | 3 | 3 | 3 | 100.00% |
| Production | 2 | 1 | 6 | 16.67% |
| Total Program Quantities Delivered | 5 | 4 | 9 | 44.44% |

| Expenditures and Appropriations (TY \$M) | | | |
|--|--------|----------------------------|---------|
| Total Acquisition Cost | 2199.6 | Years Appropriated | 14 |
| Expenditures To Date | 1733.4 | Percent Years Appropriated | 100.00% |
| Percent Expended | 78.81% | Appropriated to Date | 2199.6 |
| Total Funding Years | 14 | Percent Appropriated | 100.00% |

Operating and Support Cost

Assumptions And Ground Rules

The Table below does not include Unit-Level Manpower since it represents a savings for C-130 AMP of \$172.6K (Base Year 2010) per aircraft per year. Therefore, the Total Unitized O&S Cost (Base Year 2010) equals \$71.6K for a steady state period. Total O&S costs also include ramp up and ramp down costs that would not be in the steady state per unit cost. Therefore, the product of per unit aircraft cost, number of aircraft, and steady state period will not equal the total O&S costs. Costs shown are deltas to the existing O&S costs for the C-130 Combat Delivery fleet of 221 aircraft.

C-130 AMP O&S Program Office Estimate provided December 2011 by Aeronautical Systems Center Financial Management.

Unit Cost Breakout (BY)

The Table below does not include Unit-Level Manpower since it represents a savings for C-130 AMP of \$172.6K (Base Year 2010\$) per aircraft per year. Therefore, the Total Unitized O&S Cost (Base Year 2010\$) equals \$71.6K.

Each aircraft in inventory 20 years; total Life Cycle FY 2010 - FY 2042

There is no antecedent system for this modernization.

| Cost Element | Costs BY2010 \$K | |
|---|---------------------------------------|---------------|
| | C-130 AMP Annual Cost Per Aircraft | No Antecedent |
| Unit-Level Manpower | -- | -- |
| Unit Operations | 172.2 | -- |
| Maintenance | -- | -- |
| Sustaining Support | 70.9 | -- |
| Continuing System Improvements | -- | -- |
| Indirect Support | 1.2 | -- |
| Other | -- | -- |
| Total Unitized Cost (Base Year 2010 \$) | 244.3 | -- |

| Total O&S Costs \$M | C-130 AMP | No Antecedent |
|---------------------|-----------|---------------|
| Base Year | 496.5 | -- |
| Then Year | 561.9 | -- |

C-130 AMP O&S estimate update provided December 2011 by Aeronautical System Center Financial Management.