



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-549



F/A-18E/F Super Hornet Aircraft (F/A-18E/F)

As of December 31, 2012

Defense Acquisition Management
Information Retrieval
(DAMIR)

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Program Information

Program Name

F/A-18E/F Super Hornet Aircraft (F/A-18E/F)

DoD Component

Navy

Responsible Office

Responsible Office

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References

SAR Baseline (Production Estimate)

Navy Acquisition Executive (NAE) Approved Acquisition Program Baseline (APB) dated September 17, 2000

Approved APB

Navy Acquisition Executive (NAE) Approved Acquisition Program Baseline (APB) dated February 15, 2011

Mission and Description

The F/A-18E/F Super Hornet is the second major model upgrade since the inception of the F/A-18 aircraft program. The single-seat F/A-18E and the two-seat F/A-18F are high performance, twin-engine, mid-wing, and multi-mission tactical aircraft designed to replace the F/A-18C (single-seat) and F/A-18D (two-seat) aircraft as they reach the end of their service lives and retire. The F/A-18E/F is designed to meet current Navy fighter escort and interdiction mission requirements, to maintain F/A-18 fleet air defense and close air support roles, as well as an increasing range of missions, including Forward Air Controller (Airborne) and Aerial Tanking, as the F/A-18E/F has proven capability to replace the S-3 as an aerial tanker. F/A-18E/F enhancements include increased range and improved carrier suitability required for the F/A-18 to continue its key strike fighter role against the advanced threats of the 21st century.

Executive Summary

The program continues to excel. Cost, schedule, and performance were superb during this reporting period, and the program continues to deliver aircraft ahead of schedule. As of March 27, 2013, the program has delivered 506 aircraft to the fleet (62 Low Rate Initial Production (LRIP) and 444 Full Rate Production (FRP)). This report solely reflects the domestic Program of Record (PoR) quantities.

As of January 30, 2013, Super Hornet aircraft have flown over 1,131,122 hours.

The F/A-18E/F and EA-18G are software-intensive systems that share a common Operational Flight Program (OFP). The current OFP is the H6E System Configuration Set (SCS), which was released to the fleet in October 2011. The H8E SCS represents the latest software upgrade that will replace the H6E SCS following Operational Test (OT). The program office delayed H8E entry into OT by four months to correct weapon integration and interoperability issues. The issues were resolved, and OT began in June 2012. H8E fleet release is scheduled for July 2013. Therefore, there are no significant software-related issues with this program at this time.

Because the program is more than 90 percent delivered, this is the final SAR submission for the F/A-18E/F Super Hornet Aircraft program (pursuant to section 2432 of title 10, United States Code).

Threshold Breaches

APB Breaches

| | | |
|---------------------|-------------|--------------------------|
| Schedule | | <input 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"/> |
| O&S Cost | | <input type="checkbox"/> |
| Unit Cost | PAUC | <input type="checkbox"/> |
| | APUC | <input type="checkbox"/> |

Nunn-McCurdy Breaches

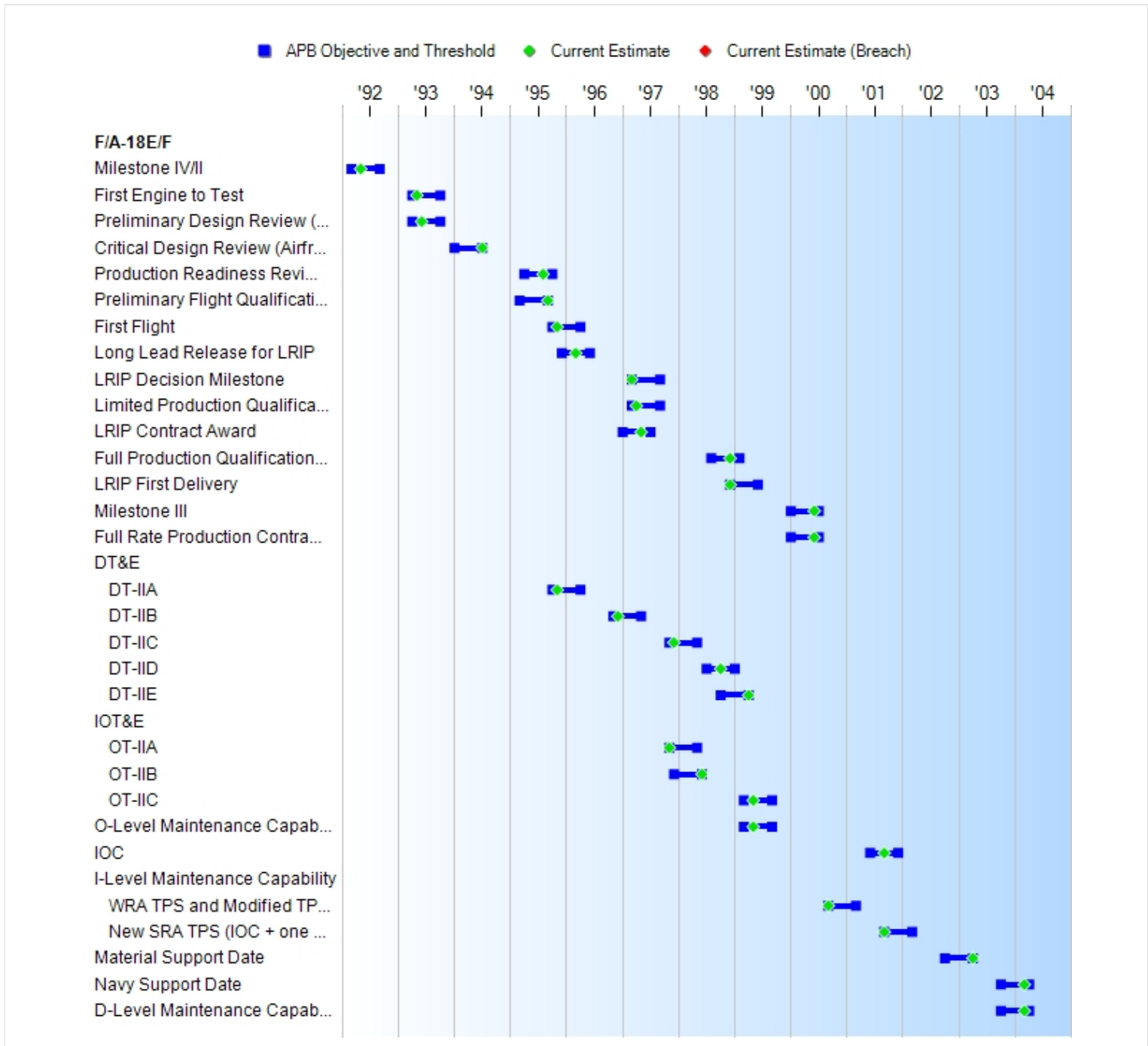
Current UCR Baseline

| | |
|------|------|
| PAUC | None |
| APUC | None |

Original UCR Baseline

| | |
|------|------|
| PAUC | None |
| APUC | None |

Schedule



| Milestones | SAR Baseline Prod Est | Current APB Production Objective/Threshold | | Current Estimate |
|--|----------------------------------|---|----------|-----------------------------|
| Milestone IV/II | MAR 1992 | MAR 1992 | SEP 1992 | MAY 1992 |
| First Engine to Test | APR 1993 | APR 1993 | OCT 1993 | MAY 1993 |
| Preliminary Design Review (Airframe) | APR 1993 | APR 1993 | OCT 1993 | JUN 1993 |
| Critical Design Review (Airframe) | JAN 1994 | JAN 1994 | JUL 1994 | JUL 1994 |
| Production Readiness Review (Airframe) | APR 1995 | APR 1995 | OCT 1995 | AUG 1995 |
| Preliminary Flight Qualification (Engine) | MAR 1995 | MAR 1995 | SEP 1995 | SEP 1995 |
| First Flight | OCT 1995 | OCT 1995 | APR 1996 | NOV 1995 |
| Long Lead Release for LRIP | DEC 1995 | DEC 1995 | JUN 1996 | MAR 1996 |
| LRIP Decision Milestone | MAR 1997 | MAR 1997 | SEP 1997 | MAR 1997 |
| Limited Production Qualification (Engine) | MAR 1997 | MAR 1997 | SEP 1997 | APR 1997 |
| LRIP Contract Award | JAN 1997 | JAN 1997 | JUL 1997 | MAY 1997 |
| Full Production Qualification (Engine) | AUG 1998 | AUG 1998 | FEB 1999 | DEC 1998 |
| LRIP First Delivery | DEC 1998 | DEC 1998 | JUN 1999 | DEC 1998 |
| Milestone III | JAN 2000 | JAN 2000 | JUL 2000 | JUN 2000 |
| Full Rate Production Contract Award | JAN 2000 | JAN 2000 | JUL 2000 | JUN 2000 |
| DT&E | | | | |
| DT-IIA | OCT 1995 | OCT 1995 | APR 1996 | NOV 1995 |
| DT-IIB | NOV 1996 | NOV 1996 | MAY 1997 | DEC 1996 |
| DT-IIC | NOV 1997 | NOV 1997 | MAY 1998 | DEC 1997 |
| DT-IID | JUL 1998 | JUL 1998 | JAN 1999 | OCT 1998 |
| DT-IIE | OCT 1998 | OCT 1998 | APR 1999 | APR 1999 |
| IOT&E | | | | |
| OT-IIA | NOV 1997 | NOV 1997 | MAY 1998 | NOV 1997 |
| OT-IIB | DEC 1997 | DEC 1997 | JUN 1998 | JUN 1998 |
| OT-IIC | MAR 1999 | MAR 1999 | SEP 1999 | MAY 1999 |
| O-Level Maintenance Capability (OPEVAL) | MAR 1999 | MAR 1999 | SEP 1999 | MAY 1999 |
| IOC | JUN 2001 | JUN 2001 | DEC 2001 | SEP 2001 |
| I-Level Maintenance Capability | | | | |
| WRA TPS and Modified TPSs (IOC) | SEP 2000 | SEP 2000 | MAR 2001 | SEP 2000 |
| New SRA TPS (IOC + one year) | SEP 2001 | SEP 2001 | MAR 2002 | SEP 2001 |
| Material Support Date | OCT 2002 | OCT 2002 | APR 2003 | APR 2003 |
| Navy Support Date | OCT 2003 | OCT 2003 | APR 2004 | MAR 2004 |
| D-Level Maintenance Capability | OCT 2003 | OCT 2003 | APR 2004 | MAR 2004 |

Acronyms And Abbreviations

DT - Developmental Testing
DT&E - Developmental Test and Evaluation
IOC - Initial Operational Capability
IOT&E - Initial Operational Test and Evaluation
LRIP - Low Rate Initial Production
OPEVAL - Operational Evaluation
OT - Operational Testing
SRA - Shop Replaceable Assembly
TPS - Test Program Set
WRA - Weapon Replaceable Assembly

Change Explanations

None

Performance

| Characteristics | SAR Baseline Prod Est | Current APB Production Objective/Threshold | | Demonstrated Performance | Current Estimate |
|---|--------------------------|--|---------------------------|-----------------------------|---------------------------|
| | | | | | |
| Interoperability of the F/A-18E/F Communications & Data Link Suite | Achieve all IERs | Achieve all IERs | Achieve all Critical IERs | Achieve all Critical IERs | Achieve all Critical IERs |
| Deck Spot Factor (F/A-18A/B/C/D =1.2) | <= 1.4 | <= 1.4 | <1.5 | 1.46 | 1.46 |
| Fighter Escort Radius (F/A-18E)(internal fuel) (Nm) | >=425 | >=425 | >=410 | 462 | 434 |
| Interdiction Mission Radius (Nm) | | | | | |
| 2 external tanks (retained) | >=400 | >=400 | >=390 | 444 | 419 |
| 3 external tanks (retained) | >=450 | >=450 | >=430 | 489 | 463 |
| Combat Ceiling (max thrust) (ft) | >50000 | >50000 | >=50000 | 52,300 | 51,948 |
| Launch: Catapult WOD (C-13-1 Catapult MAXTOGW (kts)) | <=25 | <=25 | <=30 | 19 | 19 |
| Recovery: WOD (MK-7MOD 3) (kts) | <=10 | <=10 | <=15 | 8 | 8 |
| Recovery Payload (lbs) | >9000 | >9000 | >=9000 | 9494 | 9327 |
| Usable Load Factor (Subsonic; Nz) (G's) | >= +7.5 | >= +7.5 | >= +7.5 | +7.5 | +7.5 |
| Specific Excess Power (Max Thrust, .9M, 1G, 10kft) (fps) | >=650 | >=650 | >600 | 648 | 631 |
| Acceleration (.8M to 1.2M at 35kft) (sec) | <=60 | <=60 | <70 | 65 | 69 |
| Additional Internal Fuel Capacity (lbs) (greater than C/D) | >=3000 | >=3000 | >=3000 | 4090 | 4090 |
| Mean Time Between Operational Mission Failure (MTBOMF) (Replaces MFHBF) | >=3.2 | >=3.2 | >=2.6 | 10.0 | 9.3 |
| Direct Maintenance Manhours per Flight Hour (DMMH/FH) (Replaces MH/FH) | <=5.0 | <=5.0 | <=9.0 | 6.4 | 5.9 |

| | | | | | |
|---|-------|-------|-------|-------|-------|
| Speed (Mach) Fighter Escort Mission Configuration @10,000 ft with Intermediate Rated Thrust | .98 | .98 | .96 | .96 | .96 |
| Empty Weight (lbs) | 29950 | 29950 | 31950 | 30801 | 30968 |
| Built-In Test (All Avionics) | | | | | |
| Fault Detection (%) | 75 | 75 | 65 | 94.5 | 98.9 |
| Fault Isolation (%) | 90 | 90 | 85 | 90.5 | 97.6 |
| False Alarm Rate (%) | 30 | 30 | 45 | 33.5 | 39.6 |
| Approach Speed (kts) | <=140 | <=140 | <=150 | 142 | 142 |

Requirements Source: Operational Requirements Document (ORD) dated March 22, 2000

Acronyms And Abbreviations

fps - feet per second
 Ft - Feet
 G - Gravitational Acceleration
 IER - Information Exchange Requirement
 kft - Thousand Feet
 kts - knots
 lbs - pounds
 M - Mach Number
 MAX TOGW - Maximum Take Off Gross Weight
 MFHBF - Mean Flight Hours Between Failure
 MH/FH - Maintenance Hours per Flight Hour
 Nm - Nautical Mile/s
 Nz - Normal Load Factor, Normal Acceleration
 sec - second
 WOD - Wind Over Deck

Change Explanations

None

Memo

Interdiction Mission Radius, Recovery Payload, Specific Excess Power, Additional Internal Fuel Capacity, Launch Wind Over Deck and Acceleration Time are estimates based on the F/A-18E aircraft.

Interdiction Mission Radius Nautical Miles payload with:

- a. 2 external tanks + 2 Airborne Intercept Missile (AIM) -9 + 4 MK 83 Low Drag (LD) on Low Drag Pylons + Forward Looking Infrared Radar/Navigation Forward Looking Infrared Radar (FLIR/NAVFLIR).
- b. 3 external tanks + 2 AIM-9 + 4 MK 83 LD on Low Drag Pylons + Forward Looking Infrared Radar/Navigation Forward Looking Infrared Radar (FLIR/NAVFLIR).

MK is part of a serial number; it is not an acronym or an abbreviation.

Current estimated performance is based on Lot 35 Full Rate Production (FRP) 12 configuration as of January 2013.

Recovery Payload: F/A-18F: 44,000 Carrier Landing Design Gross Weight (CLDGW). The F/A-18E/F at Initial Operating Capability (IOC) provided for a threshold/objective of 9,000 pounds of recovery payload.

Specific Excess Power: F/A-18E: (2) AIM-9 + (2) AIM-120 + Gun and Ammo with 60% internal fuel; and the equivalent design gross weight for the F/A-18F.

Track To Budget**RDT&E**

| | | | |
|-----------|---------------|---|--------|
| APPN 1319 | BA 07 | PE 0204136N | (Navy) |
| | Project E2130 | (E2130) F/A-18 Squadrons/Follow-on Variant | (Sunk) |

Procurement

| | | | |
|-----------|----------|---|----------|
| APPN 1506 | BA 01 | PE 0204136N | (Navy) |
| | ICN 0145 | APN 1 F/A-18E/F (Fighter) Hornet (MYP) | |
| APPN 1506 | BA 06 | PE 0204136N | (Navy) |
| | ICN 0605 | APN 6 Spares | (Shared) |

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

| Appropriation | BY2000 \$M | | | BY2000 \$M | TY \$M | | |
|----------------|-----------------------|--|---------|------------------|-----------------------|----------------------------------|------------------|
| | SAR Baseline Prod Est | Current APB Production Objective/Threshold | | Current Estimate | SAR Baseline Prod Est | Current APB Production Objective | Current Estimate |
| RDT&E | 5889.4 | 5895.2 | 6484.7 | 5895.2 | 5574.0 | 5557.6 | 5557.6 |
| Procurement | 32995.3 | 41460.3 | 45606.3 | 39880.5 | 36063.3 | 46347.3 | 44501.0 |
| Flyaway | 27850.7 | -- | -- | 32673.3 | 30453.8 | -- | 36368.0 |
| Recurring | 27001.3 | -- | -- | 31211.1 | 29575.6 | -- | 34773.6 |
| Non Recurring | 849.4 | -- | -- | 1462.2 | 878.2 | -- | 1594.4 |
| Support | 5144.6 | -- | -- | 7207.2 | 5609.5 | -- | 8133.0 |
| Other Support | 4304.8 | -- | -- | 6091.1 | 4709.4 | -- | 6920.3 |
| Initial Spares | 839.8 | -- | -- | 1116.1 | 900.1 | -- | 1212.7 |
| 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 | 38884.7 | 47355.5 | N/A | 45775.7 | 41637.3 | 51904.9 | 50058.6 |

Confidence Level for Current APB Cost 50% - The Program of Record (PoR) decreased from 565 to 552 due to a reduction in procurement quantities in President's Budget (PB) Congress added an additional 11 F/A-18E aircraft to the program profile. These additional aircraft will be incorporated into the PoR with the next budget submission.

| Quantity | SAR Baseline Prod Est | Current APB Production | Current Estimate |
|-------------|-----------------------|------------------------|------------------|
| RDT&E | 0 | 0 | 0 |
| Procurement | 458 | 565 | 552 |
| Total | 458 | 565 | 552 |

The Program of Record (PoR) decreased from 565 to 552 due to a reduction in procurement quantities in President's Budget (PB) 2014.

Congress added an additional 11 F/A-18E aircraft to the program profile. These additional aircraft will be incorporated into the PoR with the next budget submission.

Cost and Funding

Funding Summary

Appropriation and Quantity Summary FY2014 President's Budget / December 2012 SAR (TY\$ M)

| Appropriation | Prior | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | To Complete | Total |
|---------------|---------|--------|--------|--------|--------|--------|--------|-------------|---------|
| RDT&E | 5557.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5557.6 |
| Procurement | 42173.0 | 2083.7 | 244.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 44501.0 |
| 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 2014 Total | 47730.6 | 2083.7 | 244.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50058.6 |
| PB 2013 Total | 47761.0 | 2083.7 | 1154.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50998.7 |
| Delta | -30.4 | 0.0 | -909.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -940.1 |

Program funding and production quantities listed in this SAR are consistent with the FY 2014 President's Budget (PB). The FY 2014 PB did not reflect the enacted DoD appropriation for FY 2013, nor sequestration; it reflected the President's requested amounts for FY 2013.

| Quantity | Undistributed | Prior | FY2013 | FY2014 | FY2015 | FY2016 | FY2017 | FY2018 | To Complete | Total |
|---------------|---------------|-------|--------|--------|--------|--------|--------|--------|-------------|-------|
| Development | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Production | 0 | 526 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 552 |
| PB 2014 Total | 0 | 526 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 552 |
| PB 2013 Total | 0 | 526 | 26 | 13 | 0 | 0 | 0 | 0 | 0 | 565 |
| Delta | 0 | 0 | 0 | -13 | 0 | 0 | 0 | 0 | 0 | -13 |

Cost and Funding

Annual Funding By Appropriation

Annual Funding TY\$

1319 | RDT&E | Research, Development, Test, and Evaluation, Navy

| 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 |
|-----------------|----------|-----------------------------------|---------------------------------------|------------------------------|----------------------|----------------------|----------------------|
| 1992 | -- | -- | -- | -- | -- | -- | 349.5 |
| 1993 | -- | -- | -- | -- | -- | -- | 842.1 |
| 1994 | -- | -- | -- | -- | -- | -- | 1396.2 |
| 1995 | -- | -- | -- | -- | -- | -- | 1246.0 |
| 1996 | -- | -- | -- | -- | -- | -- | 801.1 |
| 1997 | -- | -- | -- | -- | -- | -- | 345.4 |
| 1998 | -- | -- | -- | -- | -- | -- | 234.6 |
| 1999 | -- | -- | -- | -- | -- | -- | 195.6 |
| 2000 | -- | -- | -- | -- | -- | -- | 132.1 |
| 2001 | -- | -- | -- | -- | -- | -- | 13.9 |
| 2002 | -- | -- | -- | -- | -- | -- | 1.1 |
| Subtotal | -- | -- | -- | -- | -- | -- | 5557.6 |

Annual Funding BY\$

1319 | RDT&E | Research, Development, Test, and Evaluation, Navy

| Fiscal Year | Quantity | End Item Recurring Flyaway BY 2000 \$M | Non End Item Recurring Flyaway BY 2000 \$M | Non Recurring Flyaway BY 2000 \$M | Total Flyaway BY 2000 \$M | Total Support BY 2000 \$M | Total Program BY 2000 \$M |
|-----------------|----------|--|--|-----------------------------------|---------------------------|---------------------------|---------------------------|
| 1992 | -- | -- | -- | -- | -- | -- | 391.7 |
| 1993 | -- | -- | -- | -- | -- | -- | 922.4 |
| 1994 | -- | -- | -- | -- | -- | -- | 1501.2 |
| 1995 | -- | -- | -- | -- | -- | -- | 1314.4 |
| 1996 | -- | -- | -- | -- | -- | -- | 831.0 |
| 1997 | -- | -- | -- | -- | -- | -- | 354.0 |
| 1998 | -- | -- | -- | -- | -- | -- | 238.5 |
| 1999 | -- | -- | -- | -- | -- | -- | 196.5 |
| 2000 | -- | -- | -- | -- | -- | -- | 130.8 |
| 2001 | -- | -- | -- | -- | -- | -- | 13.6 |
| 2002 | -- | -- | -- | -- | -- | -- | 1.1 |
| Subtotal | -- | -- | -- | -- | -- | -- | 5895.2 |

Annual Funding TY\$
1506 | Procurement | Aircraft Procurement, Navy

| 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 |
|--------------------|-----------------|--|--|-------------------------------------|-----------------------------|-----------------------------|-----------------------------|
| 1996 | -- | 233.5 | -- | -- | 233.5 | -- | 233.5 |
| 1997 | 12 | 1471.5 | -- | 200.0 | 1671.5 | 436.8 | 2108.3 |
| 1998 | 20 | 1678.7 | -- | 163.4 | 1842.1 | 331.0 | 2173.1 |
| 1999 | 30 | 2237.9 | -- | 195.5 | 2433.4 | 451.3 | 2884.7 |
| 2000 | 36 | 2230.9 | -- | 85.9 | 2316.8 | 580.3 | 2897.1 |
| 2001 | 39 | 2377.2 | -- | 63.4 | 2440.6 | 524.0 | 2964.6 |
| 2002 | 48 | 2651.8 | -- | 72.7 | 2724.5 | 531.2 | 3255.7 |
| 2003 | 45 | 2684.5 | -- | 71.0 | 2755.5 | 482.1 | 3237.6 |
| 2004 | 42 | 2529.2 | -- | 168.0 | 2697.2 | 503.6 | 3200.8 |
| 2005 | 42 | 2560.9 | -- | 75.8 | 2636.7 | 401.1 | 3037.8 |
| 2006 | 38 | 2209.2 | -- | 44.6 | 2253.8 | 514.2 | 2768.0 |
| 2007 | 37 | 2175.7 | -- | 39.8 | 2215.5 | 474.8 | 2690.3 |
| 2008 | 37 | 2190.6 | -- | 56.7 | 2247.3 | 537.5 | 2784.8 |
| 2009 | 23 | 1396.5 | -- | 88.6 | 1485.1 | 404.0 | 1889.1 |
| 2010 | 18 | 1043.9 | -- | 36.2 | 1080.1 | 399.6 | 1479.7 |
| 2011 | 31 | 1703.4 | -- | 70.5 | 1773.9 | 467.0 | 2240.9 |
| 2012 | 28 | 1859.3 | -- | 67.3 | 1926.6 | 400.4 | 2327.0 |
| 2013 | 26 | 1538.9 | -- | 95.0 | 1633.9 | 449.8 | 2083.7 |
| 2014 | -- | -- | -- | -- | -- | 244.3 | 244.3 |
| Subtotal | 552 | 34773.6 | -- | 1594.4 | 36368.0 | 8133.0 | 44501.0 |

Annual Funding BY\$
1506 | Procurement | Aircraft Procurement, Navy

| Fiscal Year | Quantity | End Item Recurring Flyaway BY 2000 \$M | Non End Item Recurring Flyaway BY 2000 \$M | Non Recurring Flyaway BY 2000 \$M | Total Flyaway BY 2000 \$M | Total Support BY 2000 \$M | Total Program BY 2000 \$M |
|--------------------|-----------------|---|---|--|----------------------------------|----------------------------------|----------------------------------|
| 1996 | -- | 239.3 | -- | -- | 239.3 | -- | 239.3 |
| 1997 | 12 | 1495.2 | -- | 203.2 | 1698.4 | 443.8 | 2142.2 |
| 1998 | 20 | 1686.1 | -- | 164.1 | 1850.2 | 332.5 | 2182.7 |
| 1999 | 30 | 2219.3 | -- | 193.9 | 2413.2 | 447.5 | 2860.7 |
| 2000 | 36 | 2183.4 | -- | 84.1 | 2267.5 | 567.9 | 2835.4 |
| 2001 | 39 | 2299.1 | -- | 61.3 | 2360.4 | 506.8 | 2867.2 |
| 2002 | 48 | 2532.7 | -- | 69.4 | 2602.1 | 507.4 | 3109.5 |
| 2003 | 45 | 2513.7 | -- | 66.5 | 2580.2 | 451.4 | 3031.6 |
| 2004 | 42 | 2307.4 | -- | 153.3 | 2460.7 | 459.4 | 2920.1 |
| 2005 | 42 | 2272.3 | -- | 67.3 | 2339.6 | 355.9 | 2695.5 |
| 2006 | 38 | 1907.4 | -- | 38.5 | 1945.9 | 443.9 | 2389.8 |
| 2007 | 37 | 1835.6 | -- | 33.6 | 1869.2 | 400.6 | 2269.8 |
| 2008 | 37 | 1820.7 | -- | 47.1 | 1867.8 | 446.8 | 2314.6 |
| 2009 | 23 | 1144.3 | -- | 72.6 | 1216.9 | 331.1 | 1548.0 |
| 2010 | 18 | 836.3 | -- | 29.0 | 865.3 | 320.2 | 1185.5 |
| 2011 | 31 | 1332.7 | -- | 55.2 | 1387.9 | 365.4 | 1753.3 |
| 2012 | 28 | 1426.9 | -- | 51.6 | 1478.5 | 307.4 | 1785.9 |
| 2013 | 26 | 1158.7 | -- | 71.5 | 1230.2 | 338.7 | 1568.9 |
| 2014 | -- | -- | -- | -- | -- | 180.5 | 180.5 |
| Subtotal | 552 | 31211.1 | -- | 1462.2 | 32673.3 | 7207.2 | 39880.5 |

Cost Quantity Information
1506 | Procurement | Aircraft Procurement, Navy

| Fiscal Year | Quantity | End Item Recurring Flyaway (Aligned with Quantity) BY 2000 \$M |
|--------------------|-----------------|---|
| 1996 | -- | -- |
| 1997 | 12 | 1493.4 |
| 1998 | 20 | 1839.1 |
| 1999 | 30 | 2200.2 |
| 2000 | 36 | 2132.9 |
| 2001 | 39 | 2359.9 |
| 2002 | 48 | 2545.6 |
| 2003 | 45 | 2516.7 |
| 2004 | 42 | 2311.8 |
| 2005 | 42 | 2274.7 |
| 2006 | 38 | 1908.2 |
| 2007 | 37 | 1864.4 |
| 2008 | 37 | 1826.4 |
| 2009 | 23 | 1141.1 |
| 2010 | 18 | 837.4 |
| 2011 | 31 | 1372.3 |
| 2012 | 28 | 1379.6 |
| 2013 | 26 | 1207.4 |
| 2014 | -- | -- |
| Subtotal | 552 | 31211.1 |

Low Rate Initial Production

| | Initial LRIP Decision | Current Total LRIP |
|--------------------------|------------------------------|---------------------------|
| Approval Date | 3/26/1997 | 3/26/1997 |
| Approved Quantity | 62 | 62 |
| Reference | Milestone II ADM | Milestone II ADM |
| Start Year | 1997 | 1997 |
| End Year | 1999 | 1999 |

The Current Total LRIP Quantity is more than 10% of the total production quantity due to the Quadrennial Defense Review (QDR). As a result of the QDR, the total procurement quantity for the program was reduced to a range of 548 to 785 aircraft, but there was not a change to the LRIP quantity. The LRIP quantity was approved during the LRIP Defense Acquisition Board (DAB) in March 1997.

Foreign Military Sales

| Country | Date of Sale | Quantity | Total Cost \$M | Memo |
|-----------|--------------|----------|----------------|---|
| Australia | 4/14/2011 | | 357.9 | This case was implemented for the sustainment of 24 F/A-18F aircraft. |
| Australia | 5/2/2007 | 24 | 2474.0 | The Program Office has a Foreign Military Sales case with Australia for 24 F/A-18F aircraft. This case was implemented for acquisition and initial support. |

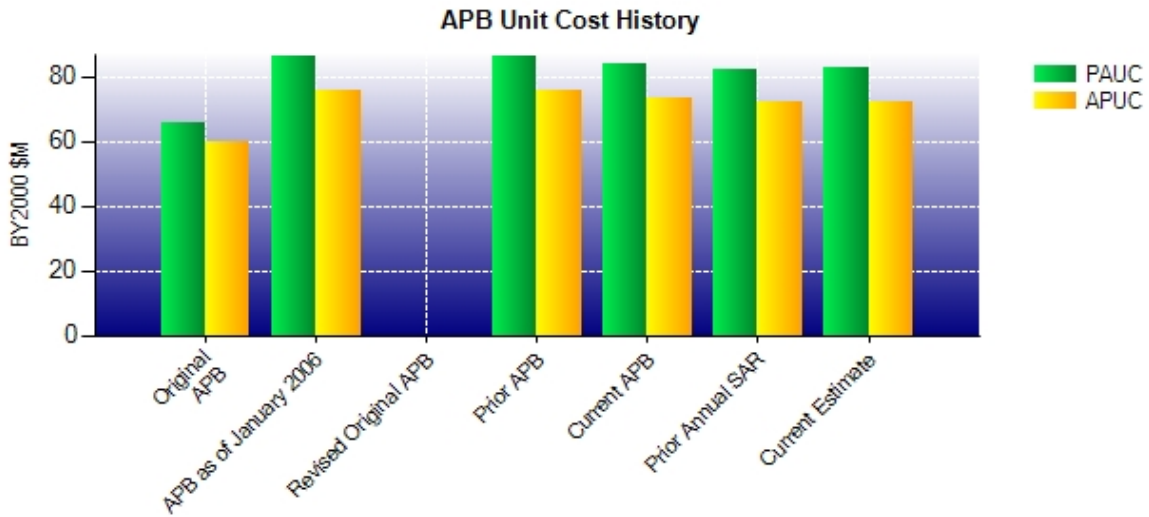
Nuclear Cost

None

Unit Cost**Unit Cost Report**

| | BY2000 \$M | BY2000 \$M | |
|---|---|--|------------------------|
| Unit Cost | Current UCR Baseline (FEB 2011 APB) | Current Estimate (DEC 2012 SAR) | BY % Change |
| Program Acquisition Unit Cost (PAUC) | | | |
| Cost | 47355.5 | 45775.7 | |
| Quantity | 565 | 552 | |
| Unit Cost | 83.815 | 82.927 | -1.06 |
| Average Procurement Unit Cost (APUC) | | | |
| Cost | 41460.3 | 39880.5 | |
| Quantity | 565 | 552 | |
| Unit Cost | 73.381 | 72.247 | -1.55 |
| | BY2000 \$M | BY2000 \$M | |
| Unit Cost | Original UCR Baseline (JUN 1992 APB) | Current Estimate (DEC 2012 SAR) | BY % Change |
| Program Acquisition Unit Cost (PAUC) | | | |
| Cost | 65944.7 | 45775.7 | |
| Quantity | 1000 | 552 | |
| Unit Cost | 65.945 | 82.927 | +25.75 |
| Average Procurement Unit Cost (APUC) | | | |
| Cost | 59976.8 | 39880.5 | |
| Quantity | 1000 | 552 | |
| Unit Cost | 59.977 | 72.247 | +20.46 |

Unit Cost History



| | Date | BY2000 \$M | | TY \$M | |
|-------------------------------|----------|------------|--------|--------|--------|
| | | PAUC | APUC | PAUC | APUC |
| Original APB | JUN 1992 | 65.942 | 59.970 | 94.583 | 88.750 |
| APB as of January 2006 | JUL 2003 | 86.175 | 75.505 | 91.968 | 81.871 |
| Revised Original APB | N/A | N/A | N/A | N/A | N/A |
| Prior APB | JUL 2003 | 86.175 | 75.505 | 91.968 | 81.871 |
| Current APB | FEB 2011 | 83.815 | 73.381 | 91.867 | 82.031 |
| Prior Annual SAR | DEC 2011 | 82.395 | 71.961 | 90.263 | 80.427 |
| Current Estimate | DEC 2012 | 82.927 | 72.247 | 90.686 | 80.618 |

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 | |
| 94.583 | -16.460 | 25.278 | 1.930 | -2.510 | 0.670 | 0.000 | -12.580 | -3.672 | 90.911 |

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

| PAUC Prod Est | Changes | | | | | | | | PAUC Current Est |
|------------------|---------|--------|-------|-------|--------|-------|-------|--------|---------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 90.911 | 0.460 | -4.853 | 2.010 | 0.468 | -2.520 | 0.000 | 4.210 | -0.225 | 90.686 |

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 | |
| 88.750 | -16.090 | 18.461 | 2.200 | -2.510 | 0.510 | 0.000 | -12.580 | -10.009 | 78.741 |

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

| APUC Prod Est | Changes | | | | | | | | APUC Current Est |
|------------------|---------|--------|-------|-------|--------|-------|-------|-------|---------------------|
| | Econ | Qty | Sch | Eng | Est | Oth | Spt | Total | |
| 78.741 | 0.503 | -2.781 | 2.010 | 0.468 | -2.533 | 0.000 | 4.210 | 1.877 | 80.618 |

SAR Baseline History

| Item/Event | SAR Planning Estimate (PE) | SAR Development Estimate (DE) | SAR Production Estimate (PdE) | Current Estimate |
|-----------------------------|----------------------------------|-------------------------------------|-------------------------------------|---------------------|
| Milestone I | N/A | N/A | N/A | N/A |
| Milestone II | DEC 1991 | MAR 1992 | MAR 1992 | MAY 1992 |
| Milestone III | DEC 1998 | JAN 2000 | JAN 2000 | JUN 2000 |
| IOC | N/A | SEP 2000 | JUN 2001 | SEP 2001 |
| Total Cost (TY \$M) | 3974.4 | 94583.0 | 41637.3 | 50058.6 |
| Total Quantity | N/A | 1000 | 458 | 552 |
| Prog. Acq. Unit Cost (PAUC) | N/A | 94.583 | 90.911 | 90.686 |

Cost Variance

| Summary Then Year \$M | | | | |
|------------------------------|------------------|-------------|---------------|--------------|
| | RDT&E | Proc | MILCON | Total |
| SAR Baseline (Prod Est) | 5574.0 | 36063.3 | -- | 41637.3 |
| Previous Changes | | | | |
| Economic | -23.7 | +170.6 | -- | +146.9 |
| Quantity | -- | +6942.6 | -- | +6942.6 |
| Schedule | -- | +1109.4 | -- | +1109.4 |
| Engineering | -- | +258.3 | -- | +258.3 |
| Estimating | +7.3 | -1299.4 | -- | -1292.1 |
| Other | -- | -- | -- | -- |
| Support | -- | +2196.3 | -- | +2196.3 |
| Subtotal | -16.4 | +9377.8 | -- | +9361.4 |
| Current Changes | | | | |
| Economic | -- | +107.0 | -- | +107.0 |
| Quantity | -- | -1076.1 | -- | -1076.1 |
| Schedule | -- | -- | -- | -- |
| Engineering | -- | -- | -- | -- |
| Estimating | -- | -98.8 | -- | -98.8 |
| Other | -- | -- | -- | -- |
| Support | -- | +127.8 | -- | +127.8 |
| Subtotal | -- | -940.1 | -- | -940.1 |
| Total Changes | -16.4 | +8437.7 | -- | +8421.3 |
| CE - Cost Variance | 5557.6 | 44501.0 | -- | 50058.6 |
| CE - Cost & Funding | 5557.6 | 44501.0 | -- | 50058.6 |

| Summary Base Year 2000 \$M | | | | |
|-----------------------------------|------------------|-------------|---------------|--------------|
| | RDT&E | Proc | MILCON | Total |
| SAR Baseline (Prod Est) | 5889.4 | 32995.3 | -- | 38884.7 |
| Previous Changes | | | | |
| Economic | -- | -- | -- | -- |
| Quantity | -- | +5421.9 | -- | +5421.9 |
| Schedule | -- | +998.1 | -- | +998.1 |
| Engineering | -- | +227.2 | -- | +227.2 |
| Estimating | +5.8 | -953.7 | -- | -947.9 |
| Other | -- | -- | -- | -- |
| Support | -- | +1968.9 | -- | +1968.9 |
| Subtotal | +5.8 | +7662.4 | -- | +7668.2 |
| Current Changes | | | | |
| Economic | -- | -- | -- | -- |
| Quantity | -- | -795.1 | -- | -795.1 |
| Schedule | -- | -- | -- | -- |
| Engineering | -- | -- | -- | -- |
| Estimating | -- | -75.8 | -- | -75.8 |
| Other | -- | -- | -- | -- |
| Support | -- | +93.7 | -- | +93.7 |
| Subtotal | -- | -777.2 | -- | -777.2 |
| Total Changes | +5.8 | +6885.2 | -- | +6891.0 |
| CE - Cost Variance | 5895.2 | 39880.5 | -- | 45775.7 |
| CE - Cost & Funding | 5895.2 | 39880.5 | -- | 45775.7 |

Previous Estimate: December 2011

| Procurement | \$M | |
|---|-----------|-----------|
| | Base Year | Then Year |
| Current Change Explanations | | |
| Revised escalation indices. (Economic) | N/A | +107.0 |
| Quantity variance resulting from a decrease of 13 FA-18E/F from 565 to 552. (Quantity) (QR) | -609.4 | -824.7 |
| Additional quantity variance due to loss of 13 F/A-18E/F. (Quantity) (QR) | -185.7 | -251.4 |
| Adjustment for current and prior escalation. (Estimating) | -54.5 | -70.9 |
| Revised estimate to reflect actuals. (Estimating) | -22.1 | -29.4 |
| Revised estimate to reflect budget controls. (Estimating) | +0.8 | +1.5 |
| Adjustment for current and prior escalation. (Support) | -13.7 | -17.8 |
| Increase in Other Support costs due to additional Sustaining Engineering costs. (Support) | +110.7 | +148.8 |
| Decrease in Initial Spares. (Support) (QR) | -3.3 | -3.2 |
| Procurement Subtotal | -777.2 | -940.1 |

(QR) Quantity Related

Contracts

Appropriation: Procurement

| | |
|-----------------------|--|
| Contract Name | Airframe Multi-Year Procurement III (MYP III) |
| Contractor | The Boeing Company |
| Contractor Location | 6200 JS McDonnell Blvd St. Louis, MO 63134 |
| Contract Number, Type | N00019-09-C-0019, FPIF |
| Award Date | December 04, 2008 |
| Definitization Date | September 28, 2010 |

| Initial Contract Price (\$M) | | | Current Contract Price (\$M) | | | Estimated Price At Completion (\$M) | |
|------------------------------|---------|-----|------------------------------|---------|-----|-------------------------------------|-----------------|
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 2770.5 | 2945.6 | 66 | 4506.6 | 4621.2 | 103 | 4506.6 | 4506.6 |

Cost And Schedule Variance Explanations

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

General Contract Variance Explanation

In accordance with Defense Federal Acquisition Regulation Supplement Subpart 234.2, Earned Value Management System, a waiver was obtained and approved on June 10, 2010, by the Deputy Assistant Secretary of the Navy (Acquisition and Logistics Management), to omit Earned Value Management requirements.

Contract Comments

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to multiple funded modifications and the incorporation of Engineering Change Proposals (ECPs).

The MYP III contract value and quantities represent only the F/A-18E/F portion of the contract and do not include the EA-18G portion.

Appropriation: Procurement

Contract Name **F414 Engine Production Lots 11-15**
 Contractor GE Aircraft Engines
 Contractor Location 1000 Western Ave.
 Lynn, MA 01905-2655
 Contract Number, Type N00019-06-C-0088, FPEPA
 Award Date April 26, 2006
 Definitization Date September 26, 2007

| Initial Contract Price (\$M) | | | Current Contract Price (\$M) | | | Estimated Price At Completion (\$M) | |
|------------------------------|---------|-----|------------------------------|---------|-----|-------------------------------------|-----------------|
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 255.9 | N/A | 224 | 1308.5 | N/A | 305 | 1308.5 | 1308.5 |

Cost And Schedule Variance Explanations

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

General Contract Variance Explanation

There is no contract performance reporting required on this Fixed Price Economic Price Adjustment (FPEPA) contract.

Contract Comments

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to exercising contract options, incorporation of Engine Program Descriptions (EPDs) in support of the F414 Component Improvement Program (CIP), and procurement of long lead material in support of FY 2010 and FY 2011 engines.

This contract is more than 90% complete; therefore, this is the final report for this contract.

The original quantity of 224 represents the total potential F/A-18E/F engine quantity. This quantity is based upon the base contract (68) and all option year (156) engines to be procured. This report solely reflects the domestic Program of Record (PoR) quantities.

Appropriation: Procurement

Contract Name **F414 Engine Production Lots 16-17**
 Contractor GE Aircraft Engines
 Contractor Location 1000 Western Ave.
 Lynn, MA 01905-2655
 Contract Number, Type N00019-11-C-0045, FFP
 Award Date April 20, 2011
 Definitization Date September 26, 2012

| Initial Contract Price (\$M) | | | Current Contract Price (\$M) | | | Estimated Price At Completion (\$M) | |
|------------------------------|---------|-----|------------------------------|---------|-----|-------------------------------------|-----------------|
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 6.6 | N/A | 0 | 440.0 | N/A | 110 | 440.0 | 440.0 |

Cost And Schedule Variance Explanations

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

Contract Comments

This is the first time this contract is being reported.

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the FY 2012 procurement of 56 engines and devices, two spare engines, one spare module as well as the FY 2013 procurement of long lead material, 52 engines and devices. This report solely reflects the domestic Program of Record (PoR) quantities.

The original contract value only reflects the procurement of FY 2013 F414 logistics and engineering support.

Appropriation: Procurement

Contract Name **System Configuration Sets (SCS) Contract**
 Contractor The Boeing Company
 Contractor Location 6200 JS McDonnell Blvd
 St. Louis, MO 63166
 Contract Number, Type N68936-09-D-0002, IDIQ/CPIF/CPFF
 Award Date December 19, 2008
 Definitization Date December 19, 2008

| Initial Contract Price (\$M) | | | Current Contract Price (\$M) | | | Estimated Price At Completion (\$M) | |
|------------------------------|---------|-----|------------------------------|---------|-----|-------------------------------------|-----------------|
| Target | Ceiling | Qty | Target | Ceiling | Qty | Contractor | Program Manager |
| 905.3 | N/A | 80 | 899.9 | N/A | 67 | 899.9 | 899.9 |

Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this IDIQ/CPIF/CPFF contract.

General Contract Variance Explanation

In accordance with a contract addendum to Federal Acquisition Regulation Clause 52.234-4, Earned Value Management (EVM) will be implemented on individual orders. As stated in the contract, EVM is not applicable at the basic contract level.

Contract Comments

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to a contract modification realigning certain efforts from a Cost Plus Incentive Fee Contract Line Item Number (CLIN) to a Cost Plus Fixed Fee Level of Effort CLIN.

The initial contract price target for the basic contract reflects the total negotiated value at contract award. The current contract price target for the basic contract reflects the revised contract value.

The value, quantities, and funding for each delivery or task order, issued under this Indefinite-Delivery, Indefinite-Quantity contract, are individually negotiated.

This contract includes shared costs and quantities for the F/A-18E/F and EA-18G platforms; therefore, all data is duplicated in the EA-18G SAR.

Deliveries and Expenditures

| Deliveries To Date | Plan To Date | Actual To Date | Total Quantity | Percent Delivered |
|---|---------------------|-----------------------|-----------------------|--------------------------|
| Development | 0 | 0 | 0 | -- |
| Production | 506 | 506 | 552 | 91.67% |
| Total Program Quantities Delivered | 506 | 506 | 552 | 91.67% |

| Expenditures and Appropriations (TY \$M) | | | |
|---|---------|----------------------------|---------|
| Total Acquisition Cost | 50058.6 | Years Appropriated | 22 |
| Expenditures To Date | 42116.9 | Percent Years Appropriated | 95.65% |
| Percent Expended | 84.14% | Appropriated to Date | 49814.3 |
| Total Funding Years | 23 | Percent Appropriated | 99.51% |

The above data is current as of 3/26/2013.

Operating and Support Cost

F/A-18E/F

Assumptions and Ground Rules

Cost Estimate Reference:

Current Program: F/A-18 E/F

Flight Hours per aircraft per month: 28.2

Number of 12 Primary Authorized Aircraft (PAA) F/A-18E/F Squadrons in FY 2016: 19

Number of 10 PAA F/A-18E/F Squadrons in FY 2016: 11

Fleet Readiness Squadron (FRS) at 12-14 E & 29-31 F: 2

Consumption rate, gallons per hour: 1,291

Petroleum, Oil, and Lubricant (POL) Cost, JP-5 per Gallon FY 2000 \$: 0.73

Number of Aircraft Operating Years: 9,128

Operational Service Life (OSL): 6,000 Flight Hours

Date of Estimate: February 2013

Source: Air-4.2 Operating & Support (O&S) Cost Estimate

Sustainment Strategy:

The F/A-18E/F support strategy is based on the following basing and utilization plans. The current Program of Record (PoR) consists of 19 - 12 PAA F/A-18E/F squadrons and 11 - 10 PAA Carrier Air Wing (CVW) deployable squadrons stationed at either Naval Air Station (NAS) Lemoore, CA, or NAS Oceana, VA. Two Fleet Replacement Squadrons (FRS) - NAS Lemoore and NAS Oceana - are comprised of 85 aircraft. Twenty-two additional aircraft are either currently stationed, or will be stationed at various test and training units throughout the Continental United States (CONUS). Additionally, four fleet squadrons are forward deployed to Atsugi, Japan. The majority of the airframe and engine components are supported via three-level maintenance plans. Avionics components, on the other hand, are predominantly supported by two-level maintenance plans.

The total F/A-18E/F aircraft procurement quantity is 552, which have a service life of 20 years. Two of the aircraft were used as EA-18G System Development and Demonstration (SDD) assets. Eight of the aircraft have been lost through attrition as Category 1 strikes.

Antecedent Information:

Antecedent Program: F/A-18C/D

Consumption Rate, Gallons per Hour: 1,127

Number of Aircraft Operating Years: 9,128 (See Total O&S Cost Comments below)

Flight Hours per Aircraft per Month: 23.5

POL Cost, JP-5 per gallon FY 2000 \$: 0.73

The variable components of the cost estimate, such as the Flying Hour Program (FHP), are based on the number of aircraft operational years available and flight hours. Some elements, such as personnel and associated indirect and training costs, are dependent on the number of squadrons and manning requirements. Other elements which are fixed in nature, such as sustaining engineering, are based on a cost-per-aircraft. Modification, airframe, support equipment and depot maintenance are estimated as the total requirement and applied on a cost-per-aircraft basis.

O&S Cost Variance

Explanation

Variance Category

Causal Factor

Impact

| | | |
|-------------------------------|--|--------|
| Cost Estimating Methodologies | N/A | N/A |
| Cost Data Updates | Aviation Type/Model/Series Report (ATMSR) weapons training expendable stores and temporary additional duty rates rose significantly. The 2013 composite rates were lower than the 2012 rates, primarily due to a \$1,880 reduction in the Medicare Eligible Retiree Health Care (MERHC) accrual rate. | 1.30% |
| Rates | The Aviation Depot Level Repairable (AVDLR) pricing for components previously managed Eligible Retiree Health Care (MERHC) accrual rate under F/A-18E/F Integrated Readiness Support Teaming (FIRST) rose significantly in 2013. This was offset by a \$663M reduction in modifications during the FYDP. | -0.10% |
| Technical Inputs | The President's Budget (PB) 2014 removed 13 pipeline and attrition aircraft, resulting in a loss of 40 aircraft operating years. | -0.60% |
| Programmatics | | -0.10% |

Estimated Technical & Programmatic Updates

- Aircraft inventory updated to remove 13 aircraft
 - 11 during the Office of the Secretary of Defense (OSD) 2014 Bill Payer
 - Two during President's Budget (PB) 2014 as an End Game Offset
- Program of Record (PoR) life cycle end year changed to 2035
- Number of aircraft operating years decreased

| Unitized O&S Costs BY2000 \$K | | |
|--------------------------------|--|---|
| Cost Element | F/A-18E/F Average Annual Cost per Aircraft | F/A-18C/D (Antecedent) Average Annual Cost per Aircraft |
| Unit-Level Manpower | 1.122 | 0.983 |
| Unit Operations | 0.497 | 0.289 |
| Maintenance | 1.760 | 2.097 |
| Sustaining Support | 0.084 | 0.078 |
| Continuing System Improvements | 0.518 | 0.524 |
| Indirect Support | 0.227 | 0.204 |
| Other | 0.000 | 0.000 |
| Total | 4.208 | 4.175 |

Unitized Cost Comments:

The Average Annual Cost Per Unit for the F/A-18E/F is calculated by dividing the total O&S cost by the total operational aircraft years for the program.

| | Total O&S Cost \$M | | | |
|------------------|--|---------|------------------|------------------------|
| | Current Production APB Objective/Threshold | | Current Estimate | |
| | F/A-18E/F | | F/A-18E/F | F/A-18C/D (Antecedent) |
| Base Year | 36961.7 | 40657.9 | 38410.0 | 38112.0 |
| Then Year | 65103.8 | N/A | 67505.0 | N/A |

Total O&S Costs Comments:

For comparison purposes, the base year antecedent total O&S costs are the product of the antecedent's average annual cost per aircraft and the operational aircraft years of the new F/A-18E/F aircraft.

Disposal Costs

While disposal costs are not part of the Cost Assessment and Program Evaluation (CAPE) 2007 O&S Cost Element Structure (CES) and are not included in the totals above, the Life Cycle Cost (LCC) impact of disposal costs has been estimated at \$58.9M in Base Year (BY) 2000 dollars and \$99.5M in Then Year (TY) dollars.