



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-212



V-22 Osprey Joint Services Advanced Vertical Lift Aircraft (V-22)

As of FY 2016 President's Budget

Defense Acquisition Management
Information Retrieval
(DAMIR)

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Common Acronyms and Abbreviations for MDAP Programs

Acq O&M - Acquisition-Related Operations and Maintenance
ACAT - Acquisition Category
ADM - Acquisition Decision Memorandum
APB - Acquisition Program Baseline
APPN - Appropriation
APUC - Average Procurement Unit Cost
\$B - Billions of Dollars
BA - Budget Authority/Budget Activity
Blk - Block
BY - Base Year
CAPE - Cost Assessment and Program Evaluation
CARD - Cost Analysis Requirements Description
CDD - Capability Development Document
CLIN - Contract Line Item Number
CPD - Capability Production Document
CY - Calendar Year
DAB - Defense Acquisition Board
DAE - Defense Acquisition Executive
DAMIR - Defense Acquisition Management Information Retrieval
DoD - Department of Defense
DSN - Defense Switched Network
EMD - Engineering and Manufacturing Development
EVM - Earned Value Management
FOC - Full Operational Capability
FMS - Foreign Military Sales
FRP - Full Rate Production
FY - Fiscal Year
FYDP - Future Years Defense Program
ICE - Independent Cost Estimate
IOC - Initial Operational Capability
Inc - Increment
JROC - Joint Requirements Oversight Council
\$K - Thousands of Dollars
KPP - Key Performance Parameter
LRIP - Low Rate Initial Production
\$M - Millions of Dollars
MDA - Milestone Decision Authority
MDAP - Major Defense Acquisition Program
MILCON - Military Construction
N/A - Not Applicable
O&M - Operations and Maintenance
ORD - Operational Requirements Document
OSD - Office of the Secretary of Defense
O&S - Operating and Support
PAUC - Program Acquisition Unit Cost

PB - President's Budget
PE - Program Element
PEO - Program Executive Officer
PM - Program Manager
POE - Program Office Estimate
RDT&E - Research, Development, Test, and Evaluation
SAR - Selected Acquisition Report
SCP - Service Cost Position
TBD - To Be Determined
TY - Then Year
UCR - Unit Cost Reporting
U.S. - United States
USD(AT&L) - Under Secretary of Defense (Acquisition, Technology and Logistics)

Program Information

Program Name

V-22 Osprey Joint Services Advanced Vertical Lift Aircraft (V-22)

DoD Component

Navy

Joint Participants

United States Marine Corps; United States Navy; United States Special Operations Command; United States Air Force

Responsible Office

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References

SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated September 28, 2005

Approved APB

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated October 31, 2011

Mission and Description

The V-22 Osprey Joint Services Advanced Vertical Lift Aircraft (V-22) Program is charged by the DoD with developing, testing, evaluating, procuring, fielding and supporting a tilt rotor, Vertical/Short Takeoff and Landing (V/STOL) aircraft for Joint Service application. The Navy was designated the Executive Agent with support from the United States Air Force (USAF) in the V-22 Joint Program Office located at the Naval Air Systems Command Headquarters, Naval Air Station Patuxent River, MD. The V-22 Program is designed to provide an aircraft to meet the amphibious/vertical assault needs of the United States Marine Corps (USMC), the Combat Search and Rescue and fleet logistics needs of the Navy, and the special operations needs of the USAF and United States Special Operations Command (USSOCOM). The MV-22 variant replaces the CH-46E and CH-53D in the USMC. The CV-22 variant replaces the MH-53-J/M, but also provides a new capability and augments the MC-130 in the USAF/USSOCOM inventory for special operations infiltration, exfiltration, and resupply missions. The mission and description of Navy variant is currently pending approval of an update to the V-22 Capabilities Production Document expected in the spring of 2015. The V-22 is capable of flying over 2,100 nautical miles with a single refueling, giving the Services the advantage of a V/STOL aircraft able to rapidly self-deploy to any location in the world.

Block Descriptions:

V-22 capability is being increased and fielded over time via a Block upgrade acquisition strategy. MV-22 Block A provides a "Safe and Operational Test and Training Asset" configuration that supports developmental and operational flight tests, as well as fleet training. MV-22 Block B provides for correction of previously identified deficiencies and suitability improvements. MV-22 Block C provides mission enhancements, primarily in the areas of environmental control systems upgrades and mission systems improvements. Block 0/10 is a CV-unique configuration including radar and electronic countermeasures upgrades. Block 20 provides an enhanced CV-unique configuration with communications and aircraft system performance upgrades.

Executive Summary

The V-22 Program focus is delivery of Multi-Year 2 production aircraft, improving aircraft readiness, reducing operating costs, and expanding our business base both domestically and internationally. Both the MV-22 and CV-22 continue to meet all KPPs. APB cost performance remains within established thresholds.

The operational fleet continues to grow rapidly world-wide with a total of 273 (231 MV/42 CV) aircraft fielded as of February 13, 2015. Six V-22 concurrent deployments in addition to classified special operations have continued through the period. The Program continues to work closely with Naval Supply Systems Command and Defense Logistics Agency to mitigate the additional stress on support systems caused by this rapid fleet expansion and the continued high operational tempo.

As of November 25, 2014, all V-22 aircraft planned under the Multi-Year Procurement 1 (MYP1) Contract have been delivered and accepted. Under the MYP2 Contract, the first MV-22 was delivered on November 22, 2014 and the first CV-22 is scheduled to deliver before third quarter 2015.

PMA-275's business base expansion efforts are continuing. A formal FMS case was offered to Israel; however, on December 9, 2014, Israel notified the Naval International Program Office that they would not procure V-22s at this time, but the V-22 will be part of their 5 year defense plan. The government of Japan has officially announced the V-22 as the platform to meet their tilt-rotor requirement and a Letter of Request for Letter of Offer and Acceptance is expected by third quarter 2015. A policy decision is now in place for the unique configuration requested by the United Arab Emirates.

The FY 2016 PB includes funding to develop, starting in FY 2016, and procure, starting in FY 2018, the Navy variant in support of the Carrier Onboard Delivery mission.

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

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

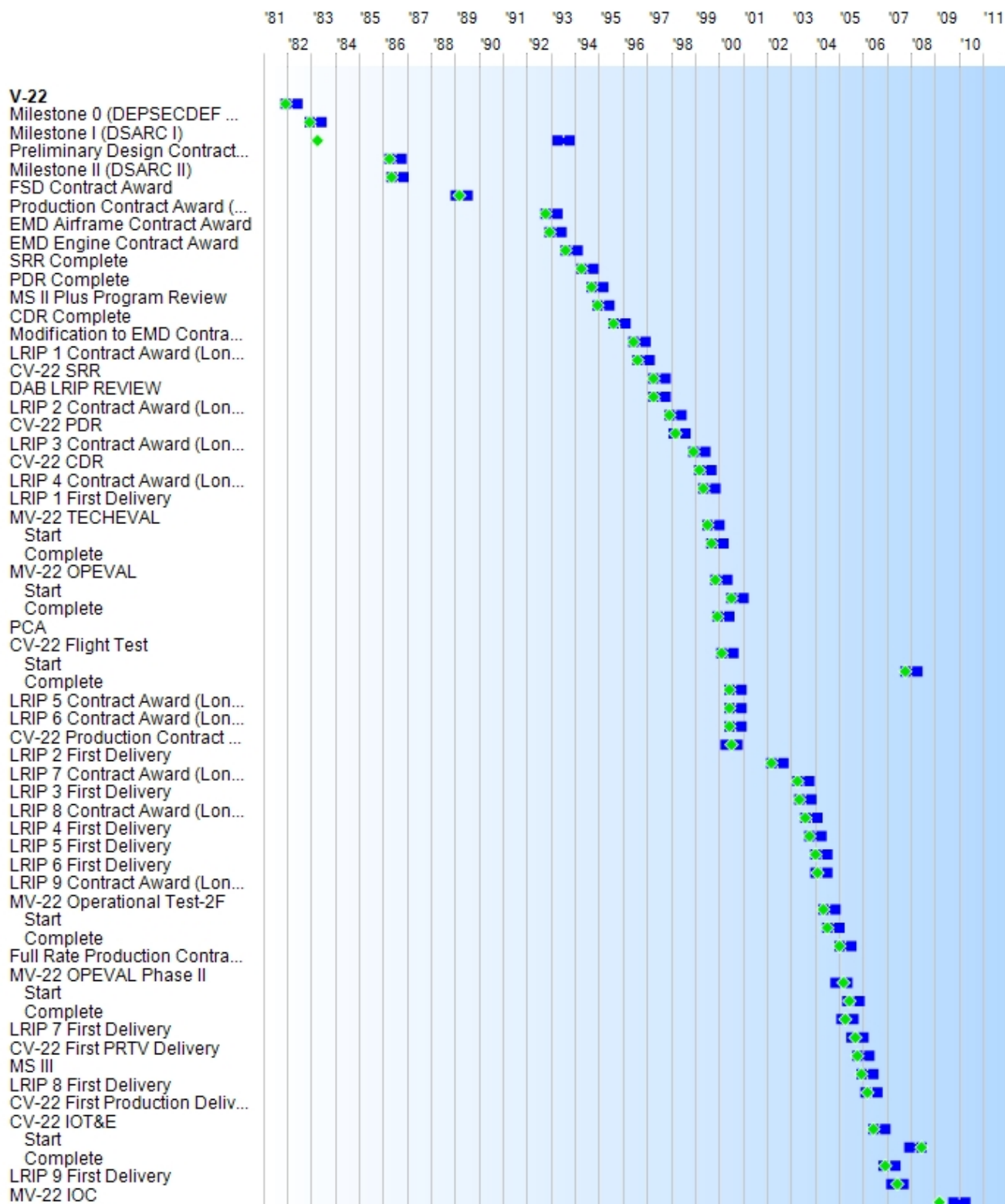
PAUC	None
APUC	None

Original UCR Baseline

PAUC	None
APUC	None

Schedule

● SAR Baseline Current Objective
 ■ APB Objective and Threshold
 ◆ Current Estimate
 ◆ Current Estimate (Breach)



CV IOC
GSD

Schedule Events				
Events	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate
Milestone 0 (DEPSECDEF MEMO)	Dec 1981	Dec 1981	Jun 1982	Dec 1981
Milestone I (DSARC I)	Dec 1982	Dec 1982	Jun 1983	Dec 1982
Preliminary Design Contract Award	Apr 1993	Apr 1993	Oct 1993	Apr 1983
Milestone II (DSARC II)	Apr 1986	Apr 1986	Oct 1986	Apr 1986
FSD Contract Award	May 1986	May 1986	Nov 1986	May 1986
Production Contract Award (Long Lead AAC)	Jan 1989	Jan 1989	Jul 1989	Mar 1989
EMD Airframe Contract Award	Oct 1992	Oct 1992	Apr 1993	Oct 1992
EMD Engine Contract Award	Dec 1992	Dec 1992	Jun 1993	Dec 1992
SRR Complete	Aug 1993	Aug 1993	Feb 1994	Aug 1993
PDR Complete	Apr 1994	Apr 1994	Oct 1994	Apr 1994
MS II Plus Program Review	Sep 1994	Sep 1994	Mar 1995	Sep 1994
CDR Complete	Dec 1994	Dec 1994	Jun 1995	Dec 1994
Modification to EMD Contract to Include CV-22 Efforts	Aug 1995	Aug 1995	Feb 1996	Aug 1995
LRIP 1 Contract Award (Long lead \$)	Jun 1996	Jun 1996	Dec 1996	Jun 1996
CV-22 SRR	Aug 1996	Aug 1996	Feb 1997	Aug 1996
DAB LRIP REVIEW	Apr 1997	Apr 1997	Oct 1997	Apr 1997
LRIP 2 Contract Award (Long lead \$)	Apr 1997	Apr 1997	Oct 1997	Apr 1997
CV-22 PDR	Dec 1997	Dec 1997	Jun 1998	Dec 1997
LRIP 3 Contract Award (Long Lead \$)	Feb 1998	Feb 1998	Aug 1998	Mar 1998
CV-22 CDR	Dec 1998	Dec 1998	Jun 1999	Dec 1998
LRIP 4 Contract Award (Long Lead \$)	Mar 1999	Mar 1999	Sep 1999	Mar 1999
LRIP 1 First Delivery	May 1999	May 1999	Nov 1999	May 1999
MV-22 TECHEVAL				
Start	Jul 1999	Jul 1999	Jan 2000	Jul 1999
Complete	Sep 1999	Sep 1999	Mar 2000	Sep 1999
MV-22 OPEVAL				
Start	Nov 1999	Nov 1999	May 2000	Nov 1999
Complete	Jul 2000	Jul 2000	Jan 2001	Jul 2000
PCA	Dec 1999	Dec 1999	Jun 2000	Dec 1999
CV-22 Flight Test				
Start	Feb 2000	Feb 2000	Aug 2000	Feb 2000
Complete	Oct 2007	Oct 2007	Apr 2008	Oct 2007

LRIP 5 Contract Award (Long Lead \$)	Jun 2000	Jun 2000	Dec 2000	Jun 2000
LRIP 6 Contract Award (Long Lead \$)	Jun 2000	Jun 2000	Dec 2000	Jun 2000
CV-22 Production Contract Award (Long lead \$)	Jun 2000	Jun 2000	Dec 2000	Jun 2000
LRIP 2 First Delivery	Apr 2000	Apr 2000	Oct 2000	Jul 2000
LRIP 7 Contract Award (Long Lead \$)	Mar 2002	Mar 2002	Sep 2002	Mar 2002
LRIP 3 First Delivery	Apr 2003	Apr 2003	Oct 2003	Apr 2003
LRIP 8 Contract Award (Long Lead \$)	May 2003	May 2003	Nov 2003	May 2003
LRIP 4 First Delivery	Aug 2003	Aug 2003	Feb 2004	Aug 2003
LRIP 5 First Delivery	Oct 2003	Oct 2003	Apr 2004	Oct 2003
LRIP 6 First Delivery	Jan 2004	Jan 2004	Jul 2004	Jan 2004
LRIP 9 Contract Award (Long Lead \$)	Jan 2004	Jan 2004	Jul 2004	Feb 2004
MV-22 Operational Test-2F				
Start	May 2004	May 2004	Nov 2004	May 2004
Complete	Jul 2004	Jul 2004	Jan 2005	Jul 2004
Full Rate Production Contract Award (Long lead \$)	Jan 2005	Jan 2005	Jul 2005	Jan 2005
MV-22 OPEVAL Phase II				
Start	Nov 2004	Nov 2004	May 2005	Mar 2005
Complete	May 2005	May 2005	Nov 2005	Jun 2005
LRIP 7 First Delivery	Feb 2005	Feb 2005	Aug 2005	Apr 2005
CV-22 First PRTV Delivery	Jul 2005	Jul 2005	Jan 2006	Sep 2005
MS III	Oct 2005	Oct 2005	Apr 2006	Oct 2005
LRIP 8 First Delivery	Dec 2005	Dec 2005	Jun 2006	Dec 2005
CV-22 First Production Delivery	Feb 2006	Feb 2006	Aug 2006	Mar 2006
CV-22 IOT&E				
Start	Jun 2006	Jun 2006	Dec 2006	Jun 2006
Complete	Dec 2007	Dec 2007	Jun 2008	Jun 2008
LRIP 9 First Delivery	Nov 2006	Nov 2006	May 2007	Dec 2006
MV-22 IOC	Mar 2007	Mar 2007	Sep 2007	Jun 2007
CV IOC	Oct 2009	Oct 2009	Apr 2010	Mar 2009
GSD	Dec 2010	Dec 2010	Jun 2011	Apr 2010

Change Explanations

None

Acronyms and Abbreviations

AAC - Advanced Acquisition Contract
CDR - Critical Design Review
DEPSECDEF - Deputy Secretary of Defense
DSARC - Defense Systems Acquisition Review Council
FSD - Full Scale Development
GSD - Government Support Date
IOT&E - Initial Operational Test and Evaluation
MS - Milestone
OPEVAL - Operational Evaluation
PCA - Physical Configuration Audit
PDR - Preliminary Design Review
PRTV - Production Representative Test Vehicle
SRR - System Requirements Review
TECHEVAL - Technical Evaluation

Performance

Performance Characteristics				
SAR Baseline Production Estimate	Current APB Production Objective/Threshold	Demonstrated Performance	Current Estimate	
MV-22				
Interoperability				
Satisfy all top level IERs	Satisfy all top level IERs	Satisfy all top level IERs designated as critical	Satisfy all top level IERs designated as critical	Satisfy all top level IERs designated as critical
Cruise Speed (kts)				
270	270	240	255	281
Mission Radius (nm)				
Land Trooplift				
200X1	200X1	200X1	210x1	213X1
Land External				
110X1	110X1	50X1	69x1	52x1
Sea Trooplift				
110X2	110X2	50X2	53x2	89X2
Sea External				
110X1	110X1	50X1	89x1	81X1
Amphibious Pre-Assault/Raid Ops (nm)				
200X1	200X1	200X1	230x1	315x1
Payload				
Troops				
24	24	24	24	24
External Lift (lbs)				
15,000	15,000	10,000	10,000	12,500
Aerial Refuel Capable				
yes	yes	yes	yes	yes
Self-Deployment (nm)				
2100 w/no refuel	2100 w/no refuel	2100 w/1 refuel	2660 w/1 aerial refuel	2234 w/1 aerial refuel
Shipboard Compatible				
yes	yes	yes	yes	yes
V/STOL Capable				
yes	yes	yes	yes	yes
Reliability				

MFHBF (log)				
>=1.2	>=1.2	>=0.9	1.3	1.3
MFHBA				
17 Hrs	17 Hrs	17 Hrs	31.2	31.2
CV-22				
Interoperability				
Satisfy all top level IERs	Satisfy all top level IERs	Satisfy all top level IERs designated as critical	Satisfy all top level IERs designated as critical	Satisfy all top level IERs designated as critical
Cruise Speed (kts)				
270	270	230	264	257
Mission Radius (nm)				
750	750	500	538	560
Payload - Troops				
24	24	18	18	18
Aerial Refuel Capable				
yes	yes	yes	yes	yes
Self-Deployment (nm)				
2100 w/0 aerial refuel	2100 w/0 aerial refuel	2100 w/1 aerial refuel	2144 w/1 aerial refuel	2153 w/1 aerial refuel
Shipboard Compatible				
yes	yes	yes	yes	yes
Operational Environment				
100' TF/TA, Day/Night, VMC/IMC	100' TF/TA, Day/Night, VMC/IMC	300' TF/TA, Day/Night, VMC/IMC	100' TF/TA, Day/Night, VMC/IMC	100' TF/TA, Day/Night, VMC/IMC
Precision Navigation (diameter @ MAX Combat Radius)				
Locate LZ W/IN 1 Rotor	Locate LZ W/IN 1 Rotor	Locate LZ W/IN 2X Rotor	Locate LZ W/IN 2X Rotor	Locate LZ W/IN 2X Rotor
Operational Enviroment				
DECM				
SIRFC w/RF Jamming DIRCM	SIRFC w/RF Jamming DIRCM	SIRFC w/RWR, MW, CMDS	SIRFC w/RF, Jamming DIRCM	SIRFC w/RF, Jamming DIRCM
MMR (TF/TA)				
100 FT	100 FT	300 FT	100FT	100 FT
Reliability				
MFHBF (LOG)				
>=1.2	>=1.2	>=0.9	1.6	1.6
MFHBA				
15 Hrs	15 Hrs	15 Hrs	29.2	29.2

Classified Performance information is provided in the classified annex to this submission.

Requirements Reference

Capability Production Document (CPD) dated September 1, 2010

Change Explanations

None

Acronyms and Abbreviations

API - Armor Piercing Incendiary
CMDMS - Counter-Measures Dispenser System
DECM - Defensive Electronic Countermeasure
DIRCM - Directed Infrared Countermeasures
Ft - Feet
Hrs - Hours
IERs - Information Exchange Requirements
kts - knots
lbs - Pounds
LOG - Logistics
LZ w/IN - Landing Zone Within
MAX - Maximum
MFHBA - Mean Flight Hours Between Aborts
MFHBF - Mean Flight Hours Between Failures
mm - Millimeter
MMR - Multi-Mode Radar
MW - Missile Warning
nm - nautical miles
SIRFC - Suite of Integrated Radio Frequency Countermeasures
TF/TA - Terrain Following/Terrain Avoidance
V/STOL - Vertical/Short Takeoff and Landing
vel - Velocity
VMC/IMC - Visual Meteorological Conditions/Instrument Meteorological Conditions
w/RF - with Radio Frequency
w/RWR - with Radar Warning Receiver

Track to Budget

RDT&E

Appn	BA	PE	
Navy	1319	05	0604262N
	Project	Name	
	1425	V-22	
Air Force	3600	07	0401318F
	Project	Name	
	654103	CV-22	
Air Force	3600	05	0401318F
	Project	Name	
	654103	CV-22	(Sunk)
Defense-Wide	0400	07	1160403BB
	Project	Name	
	SF200	CV-22 Development	(Shared)
Defense-Wide	0400	07	1160404BB
	Project	Name	
	SF200	SO Tactical Systems (Automation)	(Sunk)
	Notes: 1985 Sunk (funded in prior years only)		
Defense-Wide	0400	07	1160421BB
	Project	Name	
	SF200	CV-22	(Sunk)

Procurement

Appn	BA	PE	
Navy	1506	01	0206121M
	Line Item	Name	
	0164	V-22 (Medium Lift)	
	Notes: Spares are separately entered.		
Navy	1506	06	0206121M
	Line Item	Name	
	0605	Spares and Repair Parts	(Shared)
Air Force	3010	06	0401318F
	Line Item	Name	
	000999	Initial Spares/Repair Parts	(Shared)
Air Force	3010	04	0401318F
	Line Item	Name	
	V022A0	CV-22 (MYP)	
	Notes: Spares are separately entered.		

Defense-Wide 0300 02 1160421BB

Line Item	Name
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1000CV2200 CV-22 Modification (Shared) (Sunk)

Notes: Does not include retrofit funding.

MILCON

Appn	BA	PE
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Navy 1205 01 0216496M

Project	Name
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00318887 LHD Pad Conversion and MV-22 LZ Improvements

Defense-Wide 0500 01 1140494BB

Project	Name
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0500 Special Operations Command Facilities Support

Notes

Multiple MILCON projects are associated with each program element and are too numerous to list.

Cost and Funding

Cost Summary

Total Acquisition Cost							
Appropriation	BY 2005 \$M			BY 2005 \$M	TY \$M		
	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Production Estimate	Current APB Production Objective	Current Estimate
RDT&E	11446.5	11446.5	12591.2	12386.3	9891.7	9891.7	11045.9
Procurement	38562.8	38562.8	42419.1	38142.4	43099.3	43099.3	43604.8
Flyaway	--	--	--	31360.3	--	--	36165.8
Recurring	--	--	--	29804.2	--	--	34466.1
Non Recurring	--	--	--	1556.1	--	--	1699.7
Support	--	--	--	6782.1	--	--	7439.0
Other Support	--	--	--	5103.3	--	--	5637.4
Initial Spares	--	--	--	1678.8	--	--	1801.6
MILCON	241.1	241.1	265.2	98.5	262.4	262.4	107.3
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	50250.4	50250.4	N/A	50627.2	53253.4	53253.4	54758.0

Confidence Level

Confidence Level of cost estimate for current APB: 50%

The current Acquisition Program Baseline (APB)/ Selected Acquisition Report (SAR) cost estimate provides sufficient resources to execute the program under normal conditions, encountering average levels of technical, schedule and programmatic risk and external interference. It was consistent with average resource expenditures on historical efforts of similar size, scope, and complexity and represents a notional 50% confidence level when established.

Total Quantity			
Quantity	SAR Baseline Production Estimate	Current APB Production	Current Estimate
RDT&E		2	2
Procurement		456	458
Total		458	460

Quantity Notes

Increase in total quantity from 459 to 460 is due to a Congressional add of 1 CV-22 in FY 2014.

Cost and Funding

Funding Summary

Appropriation Summary									
FY 2016 President's Budget / December 2014 SAR (TY\$ M)									
Appropriation	Prior	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
RDT&E	10017.7	96.6	124.5	156.3	154.9	125.0	70.9	300.0	11045.9
Procurement	31491.7	1544.7	1483.5	1546.8	893.5	811.2	888.9	4944.5	43604.8
MILCON	103.3	0.0	0.0	4.0	0.0	0.0	0.0	0.0	107.3
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2016 Total	41612.7	1641.3	1608.0	1707.1	1048.4	936.2	959.8	5244.5	54758.0
PB 2015 Total	41679.5	1652.1	1600.8	1526.8	497.7	508.1	1070.6	6407.7	54943.3
Delta	-66.8	-10.8	7.2	180.3	550.7	428.1	-110.8	-1163.2	-185.3

Quantity Summary										
FY 2016 President's Budget / December 2014 SAR (TY\$ M)										
Quantity	Undistributed	Prior	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Development	2	0	0	0	0	0	0	0	0	2
Production	0	332	19	19	18	8	8	8	46	458
PB 2016 Total	2	332	19	19	18	8	8	8	46	460
PB 2015 Total	2	332	19	19	18	4	4	8	54	460
Delta	0	0	0	0	0	4	4	0	-8	0

Cost and Funding

Annual Funding By Appropriation

Annual Funding							
1319 RDT&E Research, Development, Test, and Evaluation, Navy							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1982	--	--	--	--	--	--	0.7
1983	--	--	--	--	--	--	34.4
1984	--	--	--	--	--	--	83.1
1985	--	--	--	--	--	--	169.5
1986	--	--	--	--	--	--	525.1
1987	--	--	--	--	--	--	421.7
1988	--	--	--	--	--	--	404.8
1989	--	--	--	--	--	--	269.9
1990	--	--	--	--	--	--	204.2
1991	--	--	--	--	--	--	212.2
1992	--	--	--	--	--	--	758.0
1993	--	--	--	--	--	--	713.3
1994	--	--	--	--	--	--	8.7
1995	--	--	--	--	--	--	451.8
1996	--	--	--	--	--	--	716.4
1997	--	--	--	--	--	--	605.5
1998	--	--	--	--	--	--	487.5
1999	--	--	--	--	--	--	335.8
2000	--	--	--	--	--	--	175.9
2001	--	--	--	--	--	--	217.9
2002	--	--	--	--	--	--	391.6
2003	--	--	--	--	--	--	387.4
2004	--	--	--	--	--	--	357.3
2005	--	--	--	--	--	--	246.9
2006	--	--	--	--	--	--	192.2
2007	--	--	--	--	--	--	251.6
2008	--	--	--	--	--	--	118.0
2009	--	--	--	--	--	--	65.7
2010	--	--	--	--	--	--	76.9
2011	--	--	--	--	--	--	40.3
2012	--	--	--	--	--	--	69.1
2013	--	--	--	--	--	--	44.0
2014	--	--	--	--	--	--	42.2
2015	--	--	--	--	--	--	57.7
2016	--	--	--	--	--	--	87.9

2017	--	--	--	--	--	--	138.2
2018	--	--	--	--	--	--	126.2
2019	--	--	--	--	--	--	88.6
2020	--	--	--	--	--	--	56.0
2021	--	--	--	--	--	--	54.6
2022	--	--	--	--	--	--	55.5
2023	--	--	--	--	--	--	56.5
2024	--	--	--	--	--	--	45.2
2025	--	--	--	--	--	--	27.1
2026	--	--	--	--	--	--	10.9
2027	--	--	--	--	--	--	3.8
Subtotal	--	--	--	--	--	--	9887.8

Annual Funding 1319 RDT&E Research, Development, Test, and Evaluation, Navy							
Fiscal Year	Quantity	BY 2005 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1982	--	--	--	--	--	--	1.2
1983	--	--	--	--	--	--	56.7
1984	--	--	--	--	--	--	132.1
1985	--	--	--	--	--	--	261.3
1986	--	--	--	--	--	--	786.9
1987	--	--	--	--	--	--	613.8
1988	--	--	--	--	--	--	570.1
1989	--	--	--	--	--	--	364.7
1990	--	--	--	--	--	--	265.1
1991	--	--	--	--	--	--	266.0
1992	--	--	--	--	--	--	923.2
1993	--	--	--	--	--	--	849.1
1994	--	--	--	--	--	--	10.2
1995	--	--	--	--	--	--	517.9
1996	--	--	--	--	--	--	807.6
1997	--	--	--	--	--	--	674.3
1998	--	--	--	--	--	--	538.5
1999	--	--	--	--	--	--	366.6
2000	--	--	--	--	--	--	189.3
2001	--	--	--	--	--	--	231.3
2002	--	--	--	--	--	--	411.5
2003	--	--	--	--	--	--	401.2
2004	--	--	--	--	--	--	360.0
2005	--	--	--	--	--	--	242.4
2006	--	--	--	--	--	--	183.0
2007	--	--	--	--	--	--	233.8
2008	--	--	--	--	--	--	107.7
2009	--	--	--	--	--	--	59.2
2010	--	--	--	--	--	--	68.3
2011	--	--	--	--	--	--	34.9
2012	--	--	--	--	--	--	58.9
2013	--	--	--	--	--	--	36.9
2014	--	--	--	--	--	--	35.1
2015	--	--	--	--	--	--	47.2
2016	--	--	--	--	--	--	70.7
2017	--	--	--	--	--	--	109.1
2018	--	--	--	--	--	--	97.7
2019	--	--	--	--	--	--	67.3
2020	--	--	--	--	--	--	41.7
2021	--	--	--	--	--	--	39.8

2022	--	--	--	--	--	--	39.7
2023	--	--	--	--	--	--	39.6
2024	--	--	--	--	--	--	31.1
2025	--	--	--	--	--	--	18.3
2026	--	--	--	--	--	--	7.2
2027	--	--	--	--	--	--	2.5
Subtotal	--	--	--	--	--	--	11270.7

Annual Funding							
3600 RDT&E Research, Development, Test, and Evaluation, Air Force							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1985	--	--	--	--	--	--	0.8
1986	--	--	--	--	--	--	2.3
1987	--	--	--	--	--	--	3.0
1988	--	--	--	--	--	--	--
1989	--	--	--	--	--	--	--
1990	--	--	--	--	--	--	--
1991	--	--	--	--	--	--	--
1992	--	--	--	--	--	--	--
1993	--	--	--	--	--	--	--
1994	--	--	--	--	--	--	--
1995	--	--	--	--	--	--	--
1996	--	--	--	--	--	--	--
1997	--	--	--	--	--	--	--
1998	--	--	--	--	--	--	--
1999	--	--	--	--	--	--	--
2000	--	--	--	--	--	--	--
2001	--	--	--	--	--	--	--
2002	--	--	--	--	--	--	145.5
2003	--	--	--	--	--	--	5.9
2004	--	--	--	--	--	--	52.7
2005	--	--	--	--	--	--	14.2
2006	--	--	--	--	--	--	30.5
2007	--	--	--	--	--	--	12.8
2008	--	--	--	--	--	--	22.0
2009	--	--	--	--	--	--	16.1
2010	--	--	--	--	--	--	15.5
2011	--	--	--	--	--	--	17.6
2012	--	--	--	--	--	--	9.6
2013	--	--	--	--	--	--	19.7
2014	--	--	--	--	--	--	46.7
2015	--	--	--	--	--	--	38.7
2016	--	--	--	--	--	--	36.6
2017	--	--	--	--	--	--	17.4
2018	--	--	--	--	--	--	14.3
2019	--	--	--	--	--	--	14.6
2020	--	--	--	--	--	--	14.9
2021	--	--	--	--	--	--	15.1
2022	--	--	--	--	--	--	15.5
2023	--	--	--	--	--	--	15.8
Subtotal	2	--	--	--	--	--	597.8

Annual Funding							
3600 RDT&E Research, Development, Test, and Evaluation, Air Force							
Fiscal Year	Quantity	BY 2005 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1985	--	--	--	--	--	--	1.2
1986	--	--	--	--	--	--	3.5
1987	--	--	--	--	--	--	4.3
1988	--	--	--	--	--	--	--
1989	--	--	--	--	--	--	--
1990	--	--	--	--	--	--	--
1991	--	--	--	--	--	--	--
1992	--	--	--	--	--	--	--
1993	--	--	--	--	--	--	--
1994	--	--	--	--	--	--	--
1995	--	--	--	--	--	--	--
1996	--	--	--	--	--	--	--
1997	--	--	--	--	--	--	--
1998	--	--	--	--	--	--	--
1999	--	--	--	--	--	--	--
2000	--	--	--	--	--	--	--
2001	--	--	--	--	--	--	--
2002	--	--	--	--	--	--	153.0
2003	--	--	--	--	--	--	6.1
2004	--	--	--	--	--	--	53.3
2005	--	--	--	--	--	--	14.0
2006	--	--	--	--	--	--	29.2
2007	--	--	--	--	--	--	11.9
2008	--	--	--	--	--	--	20.1
2009	--	--	--	--	--	--	14.5
2010	--	--	--	--	--	--	13.8
2011	--	--	--	--	--	--	15.4
2012	--	--	--	--	--	--	8.3
2013	--	--	--	--	--	--	16.6
2014	--	--	--	--	--	--	38.9
2015	--	--	--	--	--	--	31.8
2016	--	--	--	--	--	--	29.6
2017	--	--	--	--	--	--	13.8
2018	--	--	--	--	--	--	11.1
2019	--	--	--	--	--	--	11.1
2020	--	--	--	--	--	--	11.1
2021	--	--	--	--	--	--	11.1
2022	--	--	--	--	--	--	11.1
2023	--	--	--	--	--	--	11.1
Subtotal	2	--	--	--	--	--	545.9

Annual Funding							
0400 RDT&E Research, Development, Test, and Evaluation, Defense-Wide							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1990	--	--	--	--	--	--	36.1
1991	--	--	--	--	--	--	8.0
1992	--	--	--	--	--	--	15.0
1993	--	--	--	--	--	--	--
1994	--	--	--	--	--	--	14.7
1995	--	--	--	--	--	--	--
1996	--	--	--	--	--	--	--
1997	--	--	--	--	--	--	--
1998	--	--	--	--	--	--	--
1999	--	--	--	--	--	--	--
2000	--	--	--	--	--	--	33.5
2001	--	--	--	--	--	--	40.1
2002	--	--	--	--	--	--	104.1
2003	--	--	--	--	--	--	32.2
2004	--	--	--	--	--	--	68.4
2005	--	--	--	--	--	--	53.1
2006	--	--	--	--	--	--	23.7
2007	--	--	--	--	--	--	--
2008	--	--	--	--	--	--	21.9
2009	--	--	--	--	--	--	30.5
2010	--	--	--	--	--	--	12.2
2011	--	--	--	--	--	--	14.0
2012	--	--	--	--	--	--	10.8
2013	--	--	--	--	--	--	2.1
2014	--	--	--	--	--	--	2.8
2015	--	--	--	--	--	--	0.2
2016	--	--	--	--	--	--	--
2017	--	--	--	--	--	--	0.7
2018	--	--	--	--	--	--	14.4
2019	--	--	--	--	--	--	21.8
Subtotal	--	--	--	--	--	--	560.3

Annual Funding							
0400 RDT&E Research, Development, Test, and Evaluation, Defense-Wide							
Fiscal Year	Quantity	BY 2005 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1990	--	--	--	--	--	--	46.9
1991	--	--	--	--	--	--	10.0
1992	--	--	--	--	--	--	18.2
1993	--	--	--	--	--	--	--
1994	--	--	--	--	--	--	17.2
1995	--	--	--	--	--	--	--
1996	--	--	--	--	--	--	--
1997	--	--	--	--	--	--	--
1998	--	--	--	--	--	--	--
1999	--	--	--	--	--	--	--
2000	--	--	--	--	--	--	36.0
2001	--	--	--	--	--	--	42.5
2002	--	--	--	--	--	--	109.3
2003	--	--	--	--	--	--	33.3
2004	--	--	--	--	--	--	69.1
2005	--	--	--	--	--	--	52.1
2006	--	--	--	--	--	--	22.6
2007	--	--	--	--	--	--	--
2008	--	--	--	--	--	--	20.0
2009	--	--	--	--	--	--	27.5
2010	--	--	--	--	--	--	10.8
2011	--	--	--	--	--	--	12.2
2012	--	--	--	--	--	--	9.3
2013	--	--	--	--	--	--	1.8
2014	--	--	--	--	--	--	2.3
2015	--	--	--	--	--	--	0.2
2016	--	--	--	--	--	--	--
2017	--	--	--	--	--	--	0.6
2018	--	--	--	--	--	--	11.2
2019	--	--	--	--	--	--	16.6
Subtotal	--	--	--	--	--	--	569.7

Annual Funding 1506 Procurement Aircraft Procurement, Navy							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1989	--	--	--	--	--	231.4	231.4
1990	--	--	--	--	--	--	--
1991	--	--	--	--	--	--	--
1992	--	--	--	--	--	--	--
1993	--	--	--	--	--	--	--
1994	--	--	--	--	--	--	--
1995	--	--	--	--	--	--	--
1996	--	41.1	--	--	41.1	--	41.1
1997	5	552.1	--	25.0	577.1	132.3	709.4
1998	7	622.1	--	20.4	642.5	66.2	708.7
1999	7	561.4	--	18.0	579.4	104.1	683.5
2000	11	768.5	--	31.0	799.5	187.8	987.3
2001	9	753.1	--	99.2	852.3	157.9	1010.2
2002	9	660.6	--	21.6	682.2	204.6	886.8
2003	11	844.2	--	109.4	953.6	129.6	1083.2
2004	9	651.9	--	59.9	711.8	167.5	879.3
2005	8	584.4	--	115.8	700.2	321.8	1022.0
2006	12	868.2	--	146.4	1014.6	367.1	1381.7
2007	14	1129.2	--	222.8	1352.0	244.3	1596.3
2008	23	1651.9	--	153.8	1805.7	308.1	2113.8
2009	30	1855.8	--	70.6	1926.4	307.8	2234.2
2010	30	1847.9	--	81.6	1929.5	317.4	2246.9
2011	30	1855.6	--	30.5	1886.1	264.7	2150.8
2012	30	1921.6	--	25.4	1947.0	264.4	2211.4
2013	18	1289.7	--	29.9	1319.6	169.3	1488.9
2014	19	1247.8	--	19.7	1267.5	143.4	1410.9
2015	19	1336.6	--	16.4	1353.0	174.0	1527.0
2016	19	1348.5	--	2.6	1351.1	129.6	1480.7
2017	18	1392.8	--	9.3	1402.1	143.8	1545.9
2018	8	720.6	--	9.4	730.0	163.3	893.3
2019	8	622.6	--	9.6	632.2	179.0	811.2
2020	8	799.6	--	9.7	809.3	79.6	888.9
2021	16	1571.0	--	10.0	1581.0	209.4	1790.4
2022	16	1543.4	--	37.8	1581.2	85.7	1666.9
2023	14	1318.9	--	38.3	1357.2	64.5	1421.7
2024	--	--	--	65.5	65.5	--	65.5
Subtotal	408	30361.1	--	1489.6	31850.7	5318.6	37169.3

Annual Funding 1506 Procurement Aircraft Procurement, Navy							
Fiscal Year	Quantity	BY 2005 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1989	--	--	--	--	--	299.8	299.8
1990	--	--	--	--	--	--	--
1991	--	--	--	--	--	--	--
1992	--	--	--	--	--	--	--
1993	--	--	--	--	--	--	--
1994	--	--	--	--	--	--	--
1995	--	--	--	--	--	--	--
1996	--	45.8	--	--	45.8	--	45.8
1997	5	609.6	--	27.6	637.2	146.1	783.3
1998	7	679.0	--	22.3	701.3	72.3	773.6
1999	7	605.0	--	19.4	624.4	112.2	736.6
2000	11	817.4	--	33.0	850.4	199.7	1050.1
2001	9	791.5	--	104.3	895.8	166.0	1061.8
2002	9	685.6	--	22.4	708.0	212.4	920.4
2003	11	859.1	--	111.3	970.4	131.9	1102.3
2004	9	646.3	--	59.4	705.7	166.1	871.8
2005	8	563.5	--	111.7	675.2	310.3	985.5
2006	12	814.6	--	137.4	952.0	344.4	1296.4
2007	14	1035.3	--	204.3	1239.6	224.0	1463.6
2008	23	1492.2	--	138.9	1631.1	278.3	1909.4
2009	30	1653.3	--	62.9	1716.2	274.3	1990.5
2010	30	1612.3	--	71.2	1683.5	276.9	1960.4
2011	30	1586.5	--	26.1	1612.6	226.3	1838.9
2012	30	1618.6	--	21.4	1640.0	222.7	1862.7
2013	18	1073.9	--	24.9	1098.8	141.0	1239.8
2014	19	1023.0	--	16.2	1039.2	117.5	1156.7
2015	19	1077.5	--	13.2	1090.7	140.3	1231.0
2016	19	1067.5	--	2.1	1069.6	102.5	1172.1
2017	18	1081.6	--	7.2	1088.8	111.7	1200.5
2018	8	548.7	--	7.2	555.9	124.3	680.2
2019	8	464.8	--	7.2	472.0	133.6	605.6
2020	8	585.2	--	7.1	592.3	58.3	650.6
2021	16	1127.2	--	7.2	1134.4	150.2	1284.6
2022	16	1085.7	--	26.6	1112.3	60.3	1172.6
2023	14	909.6	--	26.4	936.0	44.5	980.5
2024	--	--	--	44.3	44.3	--	44.3
Subtotal	408	26160.3	--	1363.2	27523.5	4847.9	32371.4

Cost Quantity Information		
1506 Procurement Aircraft Procurement, Navy		
Fiscal Year	Quantity	End Item Recurring Flyaway (Aligned With Quantity) BY 2005 \$M
1989	--	--
1990	--	--
1991	--	--
1992	--	--
1993	--	--
1994	--	--
1995	--	--
1996	--	--
1997	5	593.7
1998	7	675.2
1999	7	612.8
2000	11	800.2
2001	9	791.6
2002	9	722.8
2003	11	834.8
2004	9	670.4
2005	8	549.7
2006	12	803.9
2007	14	921.0
2008	23	1488.9
2009	30	1757.0
2010	30	1617.4
2011	30	1591.7
2012	30	1632.3
2013	18	1015.8
2014	19	1089.9
2015	19	1084.0
2016	19	1069.8
2017	18	1024.7
2018	8	522.5
2019	8	567.6
2020	8	570.1
2021	16	1081.6
2022	16	1093.7
2023	14	977.2
2024	--	--
Subtotal	408	26160.3

Annual Funding								
3010 Procurement Aircraft Procurement, Air Force								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
1999	--	--	--	--	--	21.9	21.9	
2000	--	--	--	19.5	19.5	21.3	40.8	
2001	--	--	--	26.7	26.7	22.6	49.3	
2002	--	--	--	--	--	--	--	
2003	--	9.8	--	--	9.8	79.1	88.9	
2004	2	147.6	--	--	147.6	42.0	189.6	
2005	3	209.1	--	7.2	216.3	113.9	330.2	
2006	2	136.6	--	18.6	155.2	94.1	249.3	
2007	3	219.6	--	9.3	228.9	156.2	385.1	
2008	10	659.4	--	7.0	666.4	272.4	938.8	
2009	6	360.1	--	16.4	376.5	103.4	479.9	
2010	5	314.3	--	18.8	333.1	237.9	571.0	
2011	6	388.9	--	15.0	403.9	166.3	570.2	
2012	5	332.0	--	4.0	336.0	62.6	398.6	
2013	4	258.9	--	0.5	259.4	61.9	321.3	
2014	4	258.6	--	3.2	261.8	36.0	297.8	
2015	--	--	--	15.0	15.0	2.7	17.7	
2016	--	--	--	--	--	2.8	2.8	
2017	--	--	--	--	--	0.9	0.9	
2018	--	--	--	--	--	0.2	0.2	
Subtotal	50	3294.9	--	161.2	3456.1	1498.2	4954.3	

Annual Funding								
3010 Procurement Aircraft Procurement, Air Force								
Fiscal Year	Quantity	BY 2005 \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
1999	--	--	--	--	--	23.6	23.6	
2000	--	--	--	20.7	20.7	22.6	43.3	
2001	--	--	--	28.0	28.0	23.8	51.8	
2002	--	--	--	--	--	--	--	
2003	--	10.0	--	--	10.0	80.9	90.9	
2004	2	147.0	--	--	147.0	41.8	188.8	
2005	3	202.3	--	7.0	209.3	110.2	319.5	
2006	2	128.7	--	17.5	146.2	88.8	235.0	
2007	3	201.6	--	8.5	210.1	143.4	353.5	
2008	10	595.8	--	6.3	602.1	246.2	848.3	
2009	6	319.9	--	14.6	334.5	91.8	426.3	
2010	5	274.0	--	16.4	290.4	207.3	497.7	
2011	6	333.5	--	12.9	346.4	142.6	489.0	
2012	5	280.2	--	3.4	283.6	52.9	336.5	
2013	4	213.7	--	0.4	214.1	51.1	265.2	
2014	4	210.0	--	2.6	212.6	29.2	241.8	
2015	--	--	--	12.0	12.0	2.2	14.2	
2016	--	--	--	--	--	2.2	2.2	
2017	--	--	--	--	--	0.7	0.7	
2018	--	--	--	--	--	0.2	0.2	
Subtotal	50	2916.7	--	150.3	3067.0	1361.5	4428.5	

Cost Quantity Information		
3010 Procurement Aircraft Procurement, Air Force		
Fiscal Year	Quantity	End Item Recurring Flyaway (Aligned With Quantity) BY 2005 \$M
1999	--	--
2000	--	--
2001	--	--
2002	--	--
2003	--	--
2004	2	142.0
2005	3	206.8
2006	2	130.1
2007	3	185.2
2008	10	584.3
2009	6	344.2
2010	5	274.6
2011	6	333.9
2012	5	275.1
2013	4	218.1
2014	4	222.4
2015	--	--
2016	--	--
2017	--	--
2018	--	--
Subtotal	50	2916.7

Annual Funding								
0300 Procurement Procurement, Defense-Wide								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
1999	--	--	--	--	--	--	4.0	4.0
2000	--	--	--	--	--	--	2.0	2.0
2001	--	--	--	--	--	--	6.8	6.8
2002	--	--	--	--	--	--	15.9	15.9
2003	--	5.0	--	--	5.0	--	36.9	41.9
2004	--	41.9	--	--	41.9	--	35.5	77.4
2005	--	54.5	--	0.2	54.7	--	58.6	113.3
2006	--	40.7	--	1.9	42.6	--	55.0	97.6
2007	--	113.9	--	--	113.9	--	79.9	193.8
2008	--	177.5	--	2.1	179.6	--	138.7	318.3
2009	--	85.4	--	11.6	97.0	--	29.8	126.8
2010	--	56.1	--	7.1	63.2	--	31.7	94.9
2011	--	57.3	--	9.1	66.4	--	37.2	103.6
2012	--	57.1	--	8.6	65.7	--	34.0	99.7
2013	--	59.1	--	3.8	62.9	--	30.3	93.2
2014	--	61.6	--	4.5	66.1	--	25.9	92.0
Subtotal	--	810.1	--	48.9	859.0	--	622.2	1481.2

Annual Funding 0300 Procurement Procurement, Defense-Wide							
Fiscal Year	Quantity	BY 2005 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1999	--	--	--	--	--	4.3	4.3
2000	--	--	--	--	--	2.1	2.1
2001	--	--	--	--	--	7.2	7.2
2002	--	--	--	--	--	16.5	16.5
2003	--	5.1	--	--	5.1	37.6	42.7
2004	--	41.5	--	--	41.5	35.2	76.7
2005	--	52.5	--	0.2	52.7	56.5	109.2
2006	--	38.2	--	1.8	40.0	51.7	91.7
2007	--	104.8	--	--	104.8	73.6	178.4
2008	--	160.9	--	1.9	162.8	125.6	288.4
2009	--	76.4	--	10.4	86.8	26.6	113.4
2010	--	49.3	--	6.2	55.5	27.9	83.4
2011	--	49.5	--	7.9	57.4	32.2	89.6
2012	--	48.5	--	7.3	55.8	28.9	84.7
2013	--	49.6	--	3.2	52.8	25.4	78.2
2014	--	50.9	--	3.7	54.6	21.4	76.0
Subtotal	--	727.2	--	42.6	769.8	572.7	1342.5

Cost Quantity Information		
0300 Procurement Procurement, Defense-Wide		
Fiscal Year	Quantity	End Item Recurring Flyaway (Aligned With Quantity) BY 2005 \$M
1999	--	--
2000	--	--
2001	--	--
2002	--	--
2003	--	--
2004	--	40.0
2005	--	56.4
2006	--	38.2
2007	--	46.2
2008	--	215.0
2009	--	79.6
2010	--	49.3
2011	--	49.6
2012	--	49.9
2013	--	50.2
2014	--	52.8
Subtotal	--	727.2

Annual Funding 1205 MILCON Military Construction, Navy and Marine Corps		
Fiscal Year	TY \$M	
	Total Program	
2003	0.8	
2004	10.9	
2005	14.5	
2006	22.4	
2007	--	
2008	--	
2009	--	
2010	7.2	
2011	--	
2012	6.2	
2013	--	
2014	--	
2015	--	
2016	--	
2017	4.0	
Subtotal		66.0

Annual Funding 1205 MILCON Military Construction, Navy and Marine Corps	
Fiscal Year	BY 2005 \$M
	Total Program
2003	0.8
2004	10.8
2005	13.9
2006	21.0
2007	--
2008	--
2009	--
2010	6.2
2011	--
2012	5.2
2013	--
2014	--
2015	--
2016	--
2017	3.1
Subtotal	61.0

Annual Funding 0500 MILCON Military Construction, Defense-Wide	
Fiscal Year	TY \$M
	Total Program
2000	0.2
2001	0.3
2002	8.5
2003	1.9
2004	--
2005	--
2006	1.8
2007	1.9
2008	0.7
2009	7.9
2010	11.6
2011	--
2012	--
2013	6.5
Subtotal	41.3

Annual Funding 0500 MILCON Military Construction, Defense-Wide	
Fiscal Year	BY 2005 \$M
	Total Program
2000	0.2
2001	0.3
2002	8.8
2003	1.9
2004	--
2005	--
2006	1.7
2007	1.7
2008	0.6
2009	7.0
2010	10.0
2011	--
2012	--
2013	5.3
Subtotal	37.5

Low Rate Initial Production

Item	Initial LRIP Decision	Current Total LRIP
Approval Date	4/25/1997	5/6/2002
Approved Quantity	25	58
Reference	LRIP ADM	Program Restructure ADM
Start Year	1997	1997
End Year	2001	2009

The Current Total LRIP Quantity is more than 10% of the total production quantity due to a program restructure with the May 2002 ADM which authorized additional LRIP aircraft.

Foreign Military Sales

Country	Date of Sale	Quantity	Total Cost \$M	Description
Japan	9/17/2014		1.0	Studies and Analysis of the V-22 Program to refine requirements for future aircraft procurement and conduct site assessments in Japan.
Israel	11/21/2013		1.3	Studies and Analysis of the V-22 Program to refine requirements for future aircraft procurement and conduct site assessments in Israel.

Notes

The V-22 program office business base expansion efforts are continuing. A FMS case was offered to Israel; however, on December 9, 2014, Israel notified the Naval International Program Office that they would not procure V-22s at this time, but the V-22 will be part of their 5 year defense plan. The government of Japan has officially announced the V-22 as the platform to meet their tilt-rotor requirement and a Letter of Request for Letter of Offer and Acceptance is expected by end of second quarter of FY 15. A policy decision is now in place for the unique configuration requested by the United Arab Emirates.

Nuclear Costs

None

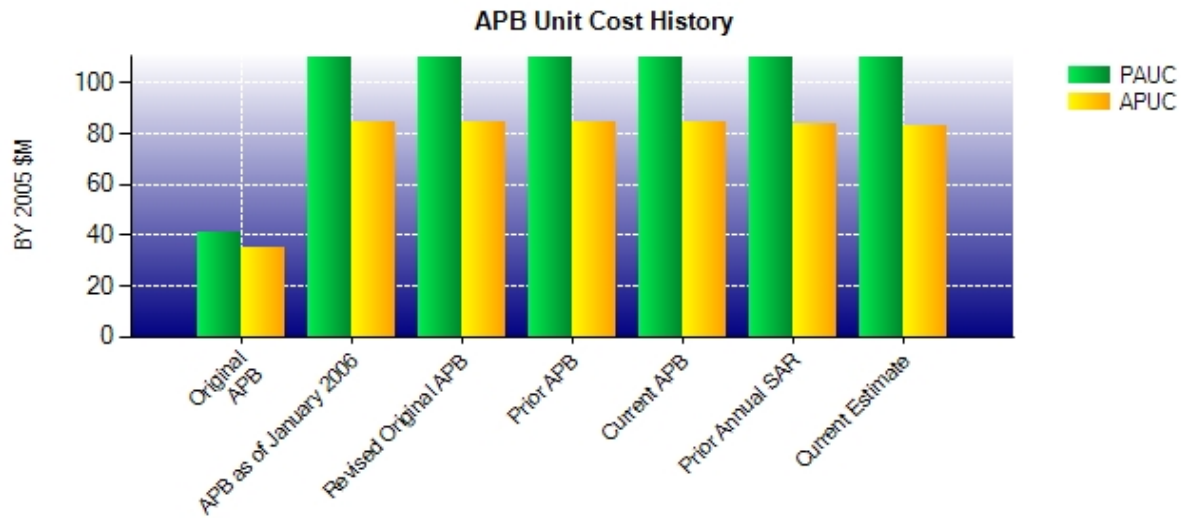
Unit Cost

Unit Cost Report

Item	BY 2005 \$M	BY 2005 \$M	% Change
	Current UCR Baseline (Oct 2011 APB)	Current Estimate (Dec 2014 SAR)	
Program Acquisition Unit Cost			
Cost	50250.4	50627.2	
Quantity	458	460	
Item	109.717	110.059	+0.31
Average Procurement Unit Cost			
Cost	38562.8	38142.4	
Quantity	456	458	
Unit Cost	84.568	83.280	-1.52

Item	BY 2005 \$M	BY 2005 \$M	% Change
	Revised Original UCR Baseline (Sep 2005 APB)	Current Estimate (Dec 2014 SAR)	
Program Acquisition Unit Cost			
Cost	50250.4	50627.2	
Quantity	458	460	
Unit Cost	109.717	110.059	+0.31
Average Procurement Unit Cost			
Cost	38562.8	38142.4	
Quantity	456	458	
Unit Cost	84.568	83.280	-1.52

Unit Cost History



Item	Date	BY 2005 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	Feb 1988	41.101	35.309	34.657	30.541
APB as of January 2006	Sep 2005	109.717	84.568	116.274	94.516
Revised Original APB	Sep 2005	109.717	84.568	116.274	94.516
Prior APB	Feb 2008	109.717	84.568	116.274	94.516
Current APB	Oct 2011	109.717	84.568	116.274	94.516
Prior Annual SAR	Dec 2013	109.845	83.922	119.442	96.750
Current Estimate	Dec 2014	110.059	83.280	119.039	95.207

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial PAUC Development Estimate	Changes								PAUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
40.180	-12.793	50.391	-4.762	8.157	30.121	0.000	4.980	76.094	116.274

Current SAR Baseline to Current Estimate (TY \$M)									
PAUC Production Estimate	Changes								PAUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
116.274	-0.894	-0.190	4.831	1.853	-2.605	0.000	-0.230	2.765	119.039

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial APUC Development Estimate	Changes								APUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
36.641	-12.349	47.964	-4.862	5.134	16.986	0.000	5.002	57.875	94.516

Current SAR Baseline to Current Estimate (TY \$M)									
APUC Production Estimate	Changes								APUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
94.516	-0.912	-0.096	4.852	0.466	-3.388	0.000	-0.231	0.691	95.207

SAR Baseline History				
Item	SAR Planning Estimate	SAR Development Estimate	SAR Production Estimate	Current Estimate
Milestone I	Dec 1982	Dec 1982	Dec 1982	Dec 1982
Milestone II	May 1985	Apr 1986	Apr 1986	Apr 1986
Milestone III	Jul 1989	N/A	Oct 2005	Oct 2005
IOC	Dec 1991	N/A	Mar 2007	Jun 2007
Total Cost (TY \$M)	24467.0	29662.3	53253.4	54758.0
Total Quantity	609	919	458	460
PAUC	40.176	32.277	116.274	119.039

Cost Variance

Summary TY \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Production Estimate)	9891.7	43099.3	262.4	53253.4
Previous Changes				
Economic	+13.2	-218.7	--	-205.5
Quantity	--	+145.5	--	+145.5
Schedule	--	+2293.3	--	+2293.3
Engineering	+115.0	+213.4	--	+328.4
Estimating	+500.1	-2031.1	-150.6	-1681.6
Other	--	--	--	--
Support	--	+809.8	--	+809.8
Subtotal	+628.3	+1212.2	-150.6	+1689.9
Current Changes				
Economic	-6.5	-199.1	-0.1	-205.7
Quantity	--	--	--	--
Schedule	--	-71.2	--	-71.2
Engineering	+524.2	--	--	+524.2
Estimating	+8.2	+479.4	-4.4	+483.2
Other	--	--	--	--
Support	--	-915.8	--	-915.8
Subtotal	+525.9	-706.7	-4.5	-185.3
Total Changes	+1154.2	+505.5	-155.1	+1504.6
CE - Cost Variance	11045.9	43604.8	107.3	54758.0
CE - Cost & Funding	11045.9	43604.8	107.3	54758.0

Summary BY 2005 \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Production Estimate)	11446.5	38562.8	241.1	50250.4
Previous Changes				
Economic	--	--	--	--
Quantity	--	+118.6	--	+118.6
Schedule	--	+1141.9	--	+1141.9
Engineering	+91.7	+157.3	--	+249.0
Estimating	+452.1	-2039.0	-138.9	-1725.8
Other	--	--	--	--
Support	--	+494.7	--	+494.7
Subtotal	+543.8	-126.5	-138.9	+278.4
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	-0.6	--	-0.6
Engineering	+389.3	--	--	+389.3
Estimating	+6.7	+352.8	-3.7	+355.8
Other	--	--	--	--
Support	--	-646.1	--	-646.1
Subtotal	+396.0	-293.9	-3.7	+98.4
Total Changes	+939.8	-420.4	-142.6	+376.8
CE - Cost Variance	12386.3	38142.4	98.5	50627.2
CE - Cost & Funding	12386.3	38142.4	98.5	50627.2

Previous Estimate: December 2013

RDT&E	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-6.5
Addition of increased range, high frequency radio, and public address system for the C/MV-22 Navy variant (Navy). (Engineering)	+160.2	+205.1
Addition of Software Reprogrammable Payload capability (Navy). (Engineering)	+13.7	+17.2
Addition for development of new Multimode Radar (DoD). (Engineering)	+28.0	+36.9
Revised estimate for Follow-On Test and Evaluation of the C/MV-22 Navy variant and envelope expansion of the MV-22 (Navy). (Engineering)	+187.4	+265.0
Adjustment for current and prior escalation. (Estimating)	+1.4	+1.6
Revised estimate to reflect actuals (Navy). (Estimating)	-3.9	-4.7
Revised estimate to reflect actuals (Air Force). (Estimating)	-0.1	-0.1
Revised estimate for FOT&E (Air Force). (Estimating)	+9.3	+11.4
RDT&E Subtotal	+396.0	+525.9

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-199.1
Acceleration of the procurement buy profile from FY 2022- FY 2023 to FY 2018 -FY 2021 (Navy). (Schedule)	0.0	-60.9
Additional schedule impacts due to acceleration of the procurement buy profile from FY 2022 -FY 2023 to FY 2018 - FY 2021 (Navy). (Schedule)	-0.6	-10.3
Adjustment for current and prior escalation. (Estimating)	+36.3	+43.4
Increase attributed to Government Furnished Equipment, Engine, Ancillary, and Non-Recurring cost estimate updates (Navy). (Estimating)	+78.9	+113.4
Revised estimate to reflect Multi-Year Procurement II contract prices (Navy). (Estimating)	+24.4	+31.0
Revised estimate due to the C/MV-22 Navy variant unique items (Navy). (Estimating)	+201.8	+277.1
Revised estimate to reflect actuals (Air Force). (Estimating)	+18.9	+23.2
Revised estimate to reflect actuals (DoD). (Estimating)	-7.5	-8.7
Adjustment for current and prior escalation. (Support)	+5.4	+7.2
Decrease in Other Support due to revised estimate of Support Equipment, Peculiar Training Equipment, Technical Publications, and Production Engineering Support for C/MV-22 Navy variant (Navy). (Support)	-523.9	-757.0
Decrease in Initial Spares to reflect actuals and to update remaining Spares requirements based on current projections (Navy). (Support)	-50.8	-71.6
Increase in Other Support due to revised estimate of Support Equipment (Air Force). (Support)	+5.3	+6.2
Decrease in Initial Spares to reflect actuals and to update remaining Spares requirements based on current projections (Air Force). (Support)	-51.7	-63.3
Decrease in Other Support due to revised estimate of Support Equipment (DoD). (Support)	-8.6	-10.5
Decrease in Initial Spares to reflect actuals and to update remaining Spares requirements based on current projections (DoD). (Support)	-21.8	-26.8
Procurement Subtotal	-293.9	-706.7

MILCON	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-0.1
Adjustment for current and prior escalation. (Estimating)	+0.1	+0.1
Revised estimate for MV-22 landing zone improvements and MV-22 aviation simulator building (Navy). (Estimating)	-3.8	-4.5
MILCON Subtotal	-3.7	-4.5

Contracts

Contract Identification

Appropriation: Procurement
Contract Name: V22 MYP1 (FY12 Lot 16)
Contractor: Bell-Boeing JPO
Contractor Location: 401 Tiltrotor Drive
 Amarillo, TX 79111
Contract Number: N00019-07-C-0001/5
Contract Type: Fixed Price Incentive(Firm Target) (FPIF)
Award Date: March 28, 2008
Definitization Date: March 28, 2008

Contract Price

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
86.4	N/A	35	2268.1	2391.1	36	2254.3	1892.9

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the initial contract price reflecting the value of advance procurement funded items only. The current contract price reflects the full airframe value.

Contract Variance

Item	Cost Variance	Schedule Variance
Cumulative Variances To Date (12/31/2014)	+34.1	-2.9
Previous Cumulative Variances	-37.3	-189.7
Net Change	+71.4	+186.8

Cost and Schedule Variance Explanations

The favorable net change in the cost variance is due to favorable material cost in several work breakout structure elements and manufacturing labor efficiencies on the production line.

The favorable net change in the schedule variance is due to to production line schedule recovery. All aircraft have been delivered.

Notes

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

Contract Identification

Appropriation: Procurement
Contract Name: V22 MYP2 Year 1 (FY13 Lot 17)
Contractor: Bell-Boeing JPO
Contractor Location: 401 Tiltrotor Drive
 Amarillo, TX 79111
Contract Number: N00019-12-C-2001/1
Contract Type: Fixed Price Incentive(Firm Target) (FPIF)
Award Date: December 29, 2011
Definitization Date: June 12, 2013

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
81.9	N/A	21	1411.1	1485.4	22	1403.0	1237.4

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the initial contract price reflecting the value of advance procurement funded items only. The current contract price reflects the full airframe value.

Contract Variance		
Item	Cost Variance	Schedule Variance
Cumulative Variances To Date (12/31/2014)	-1.5	-67.4
Previous Cumulative Variances	-10.6	-66.3
Net Change	+9.1	-1.1

Cost and Schedule Variance Explanations

The favorable net change in the cost variance is due to favorable material cost in several work breakout structure elements and manufacturing labor efficiencies on the production line.

The unfavorable net change in the schedule variance is due to inventory being available but not issued to the production line due to operations behind schedule.

Notes

The quantity increase is due to a Congressional add for combat-loss replacement aircraft.

Contract N0001912C2001 was initially awarded on December 29, 2012 with Lot 17 Advance Procurement Long Lead Items. Lot 17 aircraft were added and the Multi-Year Procurement was definitized with a modification to this contract on June 12, 2013.

Contract Identification

Appropriation: Procurement
Contract Name: V22 MYP2 Year 2 (FY14 Lot 18)
Contractor: Bell-Boeing JPO
Contractor Location: 401 Tiltrotor Drive
 Amarillo, TX 79111
Contract Number: N00019-12-C-2001/2
Contract Type: Fixed Price Incentive(Firm Target) (FPIF)
Award Date: December 17, 2013
Definitization Date: December 17, 2013

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
1000.6	N/A	22	1473.9	1551.4	23	1499.2	1499.2

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the initial contract price reflecting the value of advance procurement funded items only. The current contract price reflects the full airframe value.

Contract Variance		
Item	Cost Variance	Schedule Variance
Cumulative Variances To Date (12/31/2014)	-2.2	-27.3
Previous Cumulative Variances	0.0	0.0
Net Change	-2.2	-27.3

Cost and Schedule Variance Explanations

The unfavorable cumulative cost variance is due to higher material cost associated with two work breakout structure elements.

The unfavorable cumulative schedule variance is due to inventory being available but not issued to the production line due to operations behind schedule.

Notes

CV Option 0107 was exercised, adding one more aircraft to Lot 18.

Contract Identification

Appropriation: Procurement
Contract Name: V-22 AE 1107C Turboshaft Engine
Contractor: Rolls Royce
Contractor Location: 2355 S. Tibbs Avenue
 Indianapolis, IN 46206-0420
Contract Number: N00019-12-C-0007
Contract Type: Firm Fixed Price (FFP)
Award Date: March 30, 2012
Definitization Date: March 30, 2012

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
150.9	N/A	70	316.8	N/A	144	316.8	316.8

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the initial contract price reflecting the value of the base year award. The current contract price represents the sum of the base year award plus the sum of the two options.

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this (FFP) contract.

Notes

The engine contract provides for a base year and four option years for procurement of engines for production install and spares FY 2012 through FY 2016 requirements for the MV and CV-22 weapons systems. To date the base year (FY 2012) was awarded and the first two options (FY 2013 and FY 2014) have been exercised. This contract is a Commercial Federal Acquisition Regulation Part 12 contract.

Contract Identification

Appropriation: RDT&E
Contract Name: CV-22 Block 20
Contractor: Bell-Boeing JPO
Contractor Location: 401 Tiltrotor Drive
 Amarillo, TX 79111
Contract Number: N00019-08-C-0025
Contract Type: Cost Plus Fixed Fee (CPFF)
Award Date: December 21, 2007
Definitization Date: December 21, 2007

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
8.5	N/A	N/A	151.9	N/A	N/A	149.2	137.9

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the additions of Block 20 Increments I, II and III.

Contract Variance		
Item	Cost Variance	Schedule Variance
Cumulative Variances To Date (12/31/2014)	+0.3	-2.2
Previous Cumulative Variances	+3.1	-1.8
Net Change	-2.8	-0.4

Cost and Schedule Variance Explanations

The unfavorable net change in the cost variance is due to higher than planned material usage on parts associated with Test Asset Support.

The unfavorable net change in the schedule variance is due to the behind schedule condition associated with the Beyond Line of Sight effort.

Notes

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

Contract Identification

Appropriation: Acq O&M
Contract Name: PBL
Contractor: Bell-Boeing JPO
Contractor Location: 401 Tiltrotor Drive
 Amarillo, TX 79111
Contract Number: N00019-09-D-0008
Contract Type: Cost Plus Incentive Fee (CPIF)
Award Date: January 22, 2009
Definitization Date: January 22, 2009

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
581.4	N/A	N/A	660.4	N/A	N/A	636.6	677.1

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the increase in requirements added via modification.

Contract Variance			
Item	Cost Variance		Schedule Variance
Cumulative Variances To Date (12/31/2014)	+21.6		0.0
Previous Cumulative Variances	+19.0		0.0
Net Change	+2.6		+0.0

Cost and Schedule Variance Explanations

The favorable net change in the cost variance is due to lower actual labor cost than originally planned.

Notes

This contract was marked more than 90% complete in the 2013 SAR, however, a two year extension was awarded and reporting has continued.

Deliveries and Expenditures

Deliveries				
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	2	2	2	100.00%
Production	291	291	458	63.54%
Total Program Quantity Delivered	293	293	460	63.70%

Expended and Appropriated (TY \$M)			
Total Acquisition Cost	54758.0	Years Appropriated	34
Expended to Date	37905.9	Percent Years Appropriated	73.91%
Percent Expended	69.22%	Appropriated to Date	43254.0
Total Funding Years	46	Percent Appropriated	78.99%

The above data is current as of January 31, 2015.

Operating and Support Cost

Cost Estimate Details

Date of Estimate:	January 27, 2015
Source of Estimate:	POE
Quantity to Sustain:	454
Unit of Measure:	Aircraft
Service Life per Unit:	25.00 Years
Fiscal Years in Service:	FY 2001 - FY 2048

The Quantity to Sustain of 454 does not match the TAI Total (458) because it does not include 4 HX-21 developmental aircraft and two test aircraft.

	MV-22	Navy MV-22	CV-22
Aircraft Service Life (hrs)	10,000	10,000	10,000
Aircraft Attrition Rate	1.0%	1.0%	0.6%
Aircraft Pipeline Rate	14.3%	10.0%	8%
Total Aircraft Inventory (TAI)	360	48	50
Primary Authorized Aircraft (PAA)	256	37	50
Flight Hour per Month	35	35	36
Flight Hours per Year	420	420	432
Total Aircraft Operating Years	7,580	1,068	913

Sustainment Strategy

The V-22 Program Office is executing a Joint Sustainment Strategy that provides the product support elements for the Marine Corps MV-22, Air Force CV-22 fleets and Navy V-22. The sustainment strategy addresses all three levels of maintenance (Organizational, Intermediate and Depot). The cornerstones of the Joint Sustainment Strategy are the Performance Based Agreements between the Program Office and the war fighters. The PBAs clearly define the war fighter's product support requirements to be achieved through the execution of the V-22 Joint Sustainment Strategy. The Joint Sustainment Strategy is executed via a myriad of processes and organizations to include DoD organic activities and commercial contractors. Multiple Performance Based Logistics contracts are used to support the V-22 Program.

Antecedent Information

The V-22's antecedent aircraft are the CH-46E Sea Knight, CH-53D Sea Stallion, MH-53J/M Pave Low, and the C-2A Greyhound aircraft. It should be noted that the various antecedent aircraft are either rotary wing or fixed wing aircraft and are not a valid comparison to a first-of-type tilt rotor aircraft. Because the largest number of V-22s being procured (360 MV-22s) are being used to replace the CH-46E aircraft, the CH-46E's O&S costs were used as the basis for the V-22 antecedent aircraft costs. The antecedent cost is based on the CH-46E's 3-year average (1999-2001) O&S cost data extracted from the Naval Visibility and Management of Operating and Support Costs (VAMOSOC) database for the 229 aircraft reported on during that time. Since VAMOSOC does not capture Indirect Support costs, the CH-46E Indirect Support cost is calculated by multiplying the CH-46E Unit-Level Manpower by the ratio of V-22 Indirect Support to V-22 Unit-Level Manpower. The data was normalized to BY 2005\$M. For comparison purposes, the Total O&S Cost is the product of the Antecedent's Average Annual Cost per Aircraft and the Operating Aircraft Years of the new MDAP.

Annual O&S Costs BY2005 \$M			
Cost Element	V-22 Average Annual Cost Per Aircraft	CH-46E (Antecedent) Average Annual Cost Per Aircraft	
Unit-Level Manpower	1.379	0.449	
Unit Operations	0.280	0.058	
Maintenance	4.070	1.227	
Sustaining Support	0.461	0.038	
Continuing System Improvements	0.709	0.182	
Indirect Support	0.643	0.220	
Other	--	--	
Total	7.542	2.174	

Item	Total O&S Cost \$M			
	V-22			CH-46E (Antecedent)
	Current Production APB Objective/Threshold	Current Estimate		
Base Year	75022.5	82524.8	72098.9	20782.3
Then Year	121543.7	N/A	112840.4	N/A

Disposal Cost is included in the Operating and Support Cost of the current APB objective and threshold for this program.

Equation to Translate Annual Cost to Total Cost

The delta between this equation and the O&S estimate is due to rounding. The equation's rounding error is less than 14/1,000ths of 1% (0.00014) compared to the O&S estimate.

Total O&S cost = average annual O&S cost per aircraft * (MV-22 USMC operating years + MV-22 Navy operating years + CV-22 operating years). Total O&S cost = \$7.542M * (7,580 + 1,068 + 913)

O&S Cost Variance

Category	BY 2005 \$M	Change Explanations
Prior SAR Total O&S Estimates - Dec 2013 SAR	74992.7	
Programmatic/Planning Factors	473.2	PB16 delivery profile, Weapon System Planning Document updated information.
Cost Estimating Methodology	-413.5	Transition of the O&S Cost Analysis module to a new model allowed for improved management of inventory, aircraft utilization and cost estimating relationships based on Cost Analysis Requirement Documentation (CARD) inputs, resulting in a small decrease in the total estimate.
Cost Data Update	-1882.8	Updated reliabilities and pricing of repairable and consumable components, updated engine reliability, and engine MissionCare Contract costs, updated with actual costs.
Labor Rate	-710.0	FY15 Composite Pay Rates
Energy Rate	-360.7	2014 Fuel Price
Technical Input	0.0	
Other	0.0	
Total Changes	-2893.8	
Current Estimate	72098.9	

Disposal Estimate Details

Date of Estimate:	January 27, 2015
Source of Estimate:	POE
Disposal/Demilitarization Total Cost (BY 2005 \$M):	Total costs for disposal of all Aircraft are 98.4