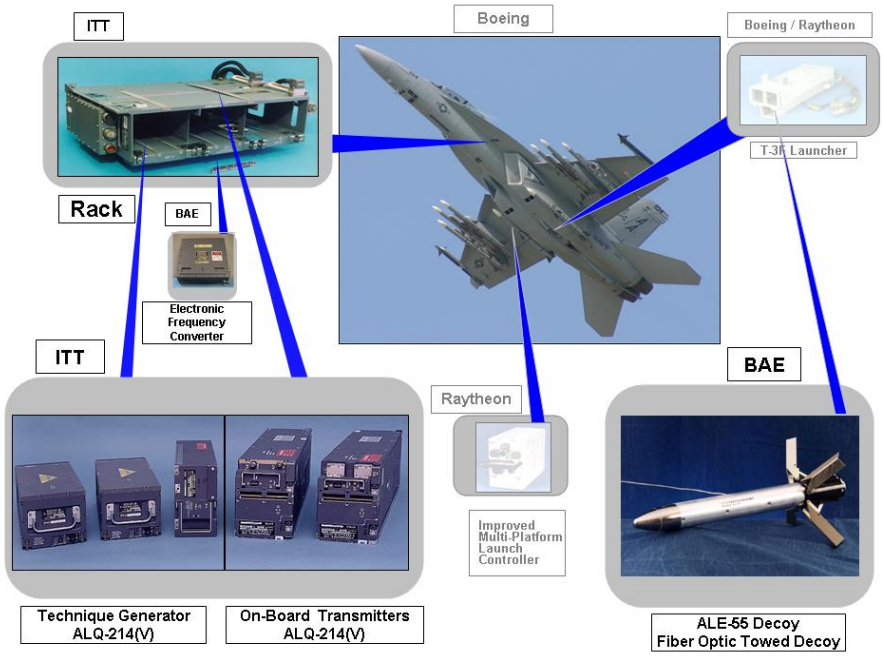
Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-418



Integrated Defensive Electronic Countermeasures (IDECM)

As of FY 2017 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

Integrated Defensive Electronic Countermeasures (IDECM)

DoD Component

Navy

Responsible Office

CAPT Scott Porter, USN
Program Executive Office (Tactical Aircraft)
Bldg. 2272, Suite 535
47123 Buse Rd
Patuxent River, MD 20670-1547

Phone: 301-757-7951
Fax: 301-757-7954
DSN Phone: 757-7951
DSN Fax: 757-7954
Date Assigned: October 9, 2012

scott.d.porter@navy.mil

References

IDECM Blocks 2/3

SAR Baseline (Production Estimate)

Navy Acquisition Executive (NAE) Approved Acquisition Program Baseline (APB) dated June 16, 2008

Approved APB

Assistant Secretary of the Navy (Research, Development & Acquisition) (ASN(RDA)) Approved Acquisition Program Baseline (APB) dated April 13, 2012

IDECM Block 4

SAR Baseline (Development Estimate)

Navy Acquisition Executive (NAE) Approved Acquisition Program Baseline (APB) dated June 16, 2008

Approved APB

Component Acquisition Executive (CAE) Approved Acquisition Program Baseline (APB) dated February 3, 2014

Mission and Description

The Integrated Defensive Electronic Countermeasures (IDECM) System is a Radio Frequency (RF), self-protection electronic countermeasure suite on the F/A-18 aircraft. IDECM improves the survivability of the F/A-18 aircraft against RF guided threats during Air-to-Ground/Surface and Air-to-Air missions. The system is comprised of onboard components, which receive and process radar signals, along with onboard and offboard jammer components that transmit appropriate RF jamming responses.

There are four IDECM variants in development, production, or sustainment. Blocks 1-3 are compatible with F/A-18E/F aircraft only. Block 4 is compatible with F/A-18C-F aircraft.

IDECM Block 1: A federated suite, consisting of the ALQ-165 On-Board Jammer (OBJ) and ALE-50 expendable decoy.
IDECM Block 2: An integrated suite, consisting of the ALQ-214 OBJ and ALE-50 expendable decoy.
IDECM Block 3: An integrated suite, consisting of the ALQ-214 OBJ and ALE-55 Fiber Optic Towed Decoy.
IDECM Block 4: A Hardware Engineering Change Proposal to the ALQ-214 OBJ to render it suitable for operation on F/A-18C/D aircraft, while retaining all functionality, when installed on F/A-18E/F.
ALQ-214 Software Improvement Program (SWIP): ALQ-214 Software/Firmware updates that will enhance F/A-18 mission execution and improve mission survivability against modern air, land and naval threat systems by degrading (denying/delaying) threat ability to engage.

Executive Summary

IDECM Block-2 (IB-2) ALQ-214(V)3:
ALQ-214(V)3 deliveries are 100% complete and all systems were delivered at least one month ahead of the contracted schedule. Harris (formerly Exelis) delivered two hundred seventy-six (276) ALQ-214(V) 3 production systems under the LRIP 1 through FRP 8 contracts.

IDECM Block-3 (IB-3) ALE-55:
The ALE-55 is in FRP and all production contracts are performing well. As of February 9, 2016, BAE Systems has delivered 1,902 Fiber Optic Towed Decoys (FOTD) and 424 Electronic Frequency Converters (EFC) under the LRIP 4 through FRP 5 contracts. EFC deliveries are 100% complete. FRP 5 deliveries began in December 2015.

IB-2/3 current APB threshold deviation for APUC and procurement are due to reductions in the procurement rate of the ALE-55 FOTD. Reduced rate of ALE-55 FOTD procurements caused by continual budget reductions and increased Forward Pricing Rate Agreements between DCMA and ALE-55 vendor BAE. A Program Deviation Report (PDR) has been drafted notifying Assistant Secretary of the Navy (Research, Development and Acquisition) (ASN(RD&A)) of the deviation.

IDECM Block-4 (IB-4) ALQ-214 Engineering Change Proposal (ECP) and Software Improvement Program (SWIP):
On March 10, 2015, PMA 272 submitted a PDR for IB-4 ECP schedule breach. As a result of delays to Operational Test (OT) execution, caused by the combined lack of test aircraft and threat simulators/range availability, the schedule could not be met for conduct of In-Process Review (IPR) 6. Based on IDECM maturity, ASN(RD&A) concurred with the IDECM program plan to award the FY 2015 ALQ-214 production contract and remove the requirement for IPR 6 via ADM signed on May 26, 2015. The FY 2015 production contract was awarded in 4th Quarter FY 2015 for a quantity of 46 systems and spares. A revised APB which reflects the current schedule estimate (removes IPR 6 (Production Transition)) is in signature routing. With respect to the IB-4 ECP OT which officially ended November 17, 2015, that test period has officially been changed to an Operational Assessment (OA) for SWIP. The data from that test period will be used to inform the effectiveness and suitability decision when SWIP is tested. SWIP OT is planned in 2nd Quarter FY 2017. IB-4 SWIP Build 4 delivered in October 2015. IB-4 SWIP Build 5 will deliver in March 2016.

IDECM Block-4 (IB-4) Production:
The FRP 9 through 11 contract was awarded on April 16, 2012. FRP 9 and 10 deliveries are complete. As of February 9, 2016, Harris has delivered 98 ALQ-214(V)4 production systems under the FRP 9 through 11 contracts. FRP 11 deliveries began in January 2016 and are currently one month ahead of contracted schedule. The FRP 12/13 contract was awarded on July 30, 2015. FRP 12 deliveries are planned to begin in January 2017. FRP 13 option award planned for 2nd Quarter FY 2016.

IB-4 current APB threshold deviation for procurement due to the addition of 134 ALQ-214(V)4 systems, documented in N98 memo Serial Number: N98/13U146134, dated February 4, 2013. A PDR has been drafted notifying ASN(RD&A) of the deviation. A revised APB will be submitted to ASN(RD&A) to reflect current/new objective and threshold for the affected cost parameters.

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

Threshold Breaches

IDECM Blocks 2/3

APB Breaches		
Schedule		☐
Performance		☐
Cost	RDT&E	☐
	Procurement	☑
	MILCON	☐
	Acq O&M	☐
O&S Cost		☐
Unit Cost	PAUC	☐
	APUC	☑

Explanation of Breach

IB-2/3 current APB threshold deviations for APUC and procurement are due to reductions in the procurement rate of the ALE-55 Fiber Optic Towed Decoy (FOTD). The reduced rate of ALE-55 FOTD procurements was caused by continual budget reductions and increased Forward Pricing Rate Agreements between Defense Contract Management Agency (DCMA) and ALE-55 vendor BAE. A Program Deviation Report (PDR) has been drafted notifying Assistant Secretary of the Navy (Research, Development and Acquisition) (ASN RD&A) of the deviation.

Nunn-McCurdy Breaches		
Current UCR Baseline		
	PAUC	None
	APUC	None
Original UCR Baseline		
	PAUC	None
	APUC	None

IDECM Block 4

APB Breaches		
Schedule		☑
Performance		☐
Cost	RDT&E	☐
	Procurement	☑
	MILCON	☐
	Acq O&M	☐
O&S Cost		☑
Unit Cost	PAUC	☐
	APUC	☐

Explanation of Breach

IB-4 current APB threshold deviation for procurement and O&S due to the addition of 134 ALQ-214(V)4 systems, documented in N98 memo Serial Number: N98/13U146134, dated February 4, 2013. A PDR has been drafted notifying ASN(RD&A) of the deviation.

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)
'02
'03
'04
'05
'06
'07
'08
'09
'10
'11
'12
'13
'14
'15
IDECM Blocks 2/3
ALQ-214 (IB2) OPEVAL (Start)
ALQ-214 (IB2) MS III
ALQ-214 (IB2) FRP Contract...
ALQ-214 (IB2) IOC
ALE-55 (IB3) OPEVAL (Start)
ALE-55 (IB3) MS III
ALE-55 (IB3) FRP Contract ...
ALE-55 (IB3) IOC
IDECM Block 4
ALQ-214 (IB4) MS B
ALQ-214 (IB4) IPR (Post-PD...
ALQ-214 (IB4) IPR (Post-CD...
ALQ-214 (IB4) MS C
ALQ-214 (IB4) IPR (Producti...
ALQ-214 (IB4) OPEVAL (Start)
ALQ-214 (IB4) IPR (Producti...
ALQ-214 (IB4) FRP Decision
ALQ-214 (IB4) IPR (Producti...
ALQ-214 (IB4) OT (Start)
ALQ-214 (IB4) IPR (Producti...
ALQ-214 (IB4) IOC

IDECM Blocks 2/3

Schedule Events				
Events	**SAR Baseline Production Estimate**	**Current APB Production Objective/Threshold**		**Current Estimate**
ALQ-214 (IB2) OPEVAL (Start)	Nov 2002	Nov 2002	May 2003	Nov 2002
ALQ-214 (IB2) MS III	Nov 2003	Nov 2003	May 2004	Nov 2003
ALQ-214 (IB2) FRP Contract Award	Sep 2004	Sep 2004	Mar 2005	Sep 2004
ALQ-214 (IB2) IOC	Sep 2004	Sep 2004	Mar 2005	Sep 2004
ALE-55 (IB3) OPEVAL (Start)	Feb 2008	Feb 2008	Aug 2008	Feb 2008
ALE-55 (IB3) MS III	Jan 2009	Jul 2011	Jan 2012	Jul 2011
ALE-55 (IB3) FRP Contract Award	Feb 2009	Jan 2011	Jul 2011	Jul 2011
ALE-55 (IB3) IOC	Feb 2010	Jan 2011	Jul 2011	Jul 2011

Change Explanations

None

Acronyms and Abbreviations

IB2 - IDECM Block 2
IB3 - IDECM Block 3
MS - Milestone
OPEVAL - Operational Evaluation

IDECM Block 4

Schedule Events					
Events	**SAR Baseline Development Estimate**	**Current APB Production Objective/Threshold**		**Current Estimate**	
ALQ-214 (IB4) MS B	Mar 2009	N/A	N/A	N/A	
ALQ-214 (IB4) IPR (Post-PDR Assessment)	N/A	Jan 2010	Jul 2010	Mar 2010	
ALQ-214 (IB4) IPR (Post-CDR Assessment)	N/A	Jul 2010	Jan 2011	Jul 2010	
ALQ-214 (IB4) MS C	Mar 2012	N/A	N/A	N/A	
ALQ-214 (IB4) IPR (Production Cut-in Review 1)	N/A	Dec 2011	Jun 2012	Mar 2012	
ALQ-214 (IB4) OPEVAL (Start)	Nov 2012	N/A	N/A	N/A	
ALQ-214 (IB4) IPR (Production Cut-in Review 2)	N/A	Feb 2013	Aug 2013	Apr 2013	
ALQ-214 (IB4) FRP Decision	Aug 2013	N/A	N/A	N/A	
ALQ-214 (IB4) IPR (Production Cut-in Review 3)	N/A	Jan 2014	Jul 2014	Feb 2014	
ALQ-214 (IB4) OT (Start)	N/A	Dec 2013	Jun 2014	Jun 2014	
ALQ-214 (IB4) IPR (Production Transition)	N/A	Nov 2014	May 2015	**Nov 2015**[1]	(Ch-1)
ALQ-214 (IB4) IOC	Feb 2014	Nov 2014	May 2015	May 2015	

[1] *APB Breach*

Change Explanations

(Ch-1) ALQ-214 (IB4) IPR (Production Transition) current estimate changed from May 2015 to November 2015 due to delays in OT caused by lack of aircraft and threat simulator availability at the test range.

Acronyms and Abbreviations

CDR - Critical Design Review
IB4 - IDECM Block 4
IPR - In-Process Review
MS - Milestone
OPEVAL - Operational Evaluation
OT - Operational Test
PDR - Preliminary Design Review

Performance

IDECM Blocks 2/3

Performance Characteristics				
SAR Baseline Production Estimate	**Current APB Production Objective/Threshold**		**Demonstrated Performance**	**Current Estimate**
ALQ-214 (IB2/3 On-Board Jammer) Ao				
0.95	0.95	0.9	0.92	0.92
ALQ-214 (IB3 Off-Board Jammer) Ao				
0.95	0.95	0.9	0.997	0.997
ALQ-214 (IB2) Operating Envelope				
N/A	LBA	LBA	LBA	LBA

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

Requirements Reference

Operational Requirements Document (ORD) (Block 2) dated November 2003 and Capability Production Document (CPD) (Block 3) dated November 13, 2007

Change Explanations

None

Acronyms and Abbreviations

Ao - Operational Availability
IB-2 - IDECM Block 2
IB-3 - IDECM Block 3
LBA - Limits of Basic Airframe

IDECM Block 4

Performance Characteristics				
SAR Baseline Development Estimate	**Current APB Production Objective/Threshold**		**Demonstrated Performance**	**Current Estimate**
ALQ-214 (IB2/3/4 On-Board Jammer) Ao				
0.95	0.95	0.9	0.92	0.92
ALQ-214 (IB2) Operating Envelope				
N/A	LBA	LBA	LBA	LBA
ALQ-214 (IB2/3/4 On-board Jammer) Operational Availability				
Ao >= 0.95	N/A	N/A	N/A	N/A

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

Requirements Reference

Operational Requirements Document (ORD) (Block 4) dated November 2003 and Statement of Functionality (SOF) dated October 12, 2010

Change Explanations

None

Acronyms and Abbreviations

Ao - Operational Availability
IB-2 - IDECM Block 2
IB-3 - IDECM Block 3
IB-4 - IDECM Block 4
LBA - Limits of Basic Airframe

Track to Budget

IDECM Blocks 2/3

RDT&E

Appn		BA	PE		
Navy	1319	05	0604270N		
	Project		**Name**		
	2175		Tactical Air Electronic Warfare		(Sunk)

Procurement

Appn		BA	PE		
Navy	1506	05	0204161N		
	Line Item		**Name**		
	0576		Common ECM Equipment	(Shared)	(Sunk)
Navy	1506	06	0204161N		
	Line Item		**Name**		
	0605		Spares and Repair Parts	(Shared)	(Sunk)
Navy	1508	01	0204162N		
	Line Item		**Name**		
	0182		Air Expendable Countermeasures	(Shared)	

IDECM Block 4

RDT&E

Appn		BA	PE	
Navy	1319	05	0604270N	
	Project		**Name**	
	2175		Tactical Air Electronic Warfare	

Procurement

Appn		BA	PE	
Navy	1506	05	0204161N	
	Line Item		**Name**	
	0576		Common ECM Equipment	(Shared)
Navy	1506	06	0204161N	
	Line Item		**Name**	
	0605		Spares and Repair Parts	(Shared)

Cost and Funding

Cost Summary - Total Program

Total Acquisition Cost - Total Program							
Appropriation	BY 2008 $M			BY 2008 $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	664.4	696.2	--	694.3	615.2	645.1	646.2
Procurement	1407.2	1579.4	--	1964.7	1666.1	1885.5	2560.5
Flyaway	--	--	--	1582.1	--	--	2126.2
Recurring	--	--	--	1571.9	--	--	2115.6
Non Recurring	--	--	--	10.2	--	--	10.6
Support	--	--	--	382.6	--	--	434.3
Other Support	--	--	--	254.0	--	--	307.3
Initial Spares	--	--	--	128.6	--	--	127.0
MILCON	0.0	0.0	--	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	2071.6	2275.6	N/A	2659.0	2281.3	2530.6	3206.7

Cost and Funding

Cost Summary - IDECM Blocks 2/3

Total Acquisition Cost - IDECM Blocks 2/3							
Appropriation	BY 2008 $M			BY 2008 $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	454.9	456.4	502.0	456.4	391.0	391.0	391.0
Procurement	956.0	1037.5	1141.3	**1154.1**[1]	1144.2	1276.4	1568.6
Flyaway	--	--	--	923.2	--	--	1319.3
Recurring	--	--	--	916.2	--	--	1312.2
Non Recurring	--	--	--	7.0	--	--	7.1
Support	--	--	--	230.9	--	--	249.3
Other Support	--	--	--	151.4	--	--	177.6
Initial Spares	--	--	--	79.5	--	--	71.7
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	1410.9	1493.9	N/A	1610.5	1535.2	1667.4	1959.6

[1] *APB Breach*

Confidence Level

Confidence Level of cost estimate for current APB: 50%

The current APB cost estimate provided 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 - IDECM Blocks 2/3			
Quantity	SAR Baseline Production Estimate	Current APB Production	Current Estimate
RDT&E	0	0	0
Procurement	12809	12805	12805
Total	12809	12805	12805

Cost Summary - IDECM Block 4

Total Acquisition Cost - IDECM Block 4							
Appropriation	BY 2008 $M			BY 2008 $M	TY $M		
	SAR Baseline Development Estimate	Current APB Development Objective/Threshold		Current Estimate	SAR Baseline Development Estimate	Current APB Development Objective	Current Estimate
RDT&E	209.5	239.8	263.8	237.9	224.2	254.1	255.2
Procurement	451.2	541.9	596.1	**810.6**[1]	521.9	609.1	991.9
Flyaway	--	--	--	658.9	--	--	806.9
Recurring	--	--	--	655.7	--	--	803.4
Non Recurring	--	--	--	3.2	--	--	3.5
Support	--	--	--	151.7	--	--	185.0
Other Support	--	--	--	102.6	--	--	129.7
Initial Spares	--	--	--	49.1	--	--	55.3
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	660.7	781.7	N/A	1048.5	746.1	863.2	1247.1

[1] *APB Breach*

Total Quantity - IDECM Block 4			
Quantity	SAR Baseline Development Estimate	Current APB Development	Current Estimate
RDT&E	0	0	0
Procurement	160	190	324
Total	160	190	324

Cost and Funding

Funding Summary - Total Program

Appropriation Summary									
FY 2017 President's Budget / December 2015 SAR (TY$ M)									
Appropriation	Prior	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
RDT&E	629.4	6.6	3.9	2.1	2.1	2.1	0.0	0.0	646.2
Procurement	809.2	130.1	78.5	74.4	71.8	73.1	74.5	1248.9	2560.5
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 2017 Total	1438.6	136.7	82.4	76.5	73.9	75.2	74.5	1248.9	3206.7
PB 2016 Total	1443.9	140.7	71.9	85.1	75.1	76.6	71.2	824.3	2788.8
Delta	-5.3	-4.0	10.5	-8.6	-1.2	-1.4	3.3	424.6	417.9

Cost and Funding

Funding Summary - IDECM Blocks 2/3

Appropriation Summary									
FY 2017 President's Budget / December 2015 SAR (TY$ M)									
Appropriation	Prior	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
RDT&E	391.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	391.0
Procurement	505.2	21.7	20.9	24.5	24.9	25.4	25.8	920.2	1568.6
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 2017 Total	896.2	21.7	20.9	24.5	24.9	25.4	25.8	920.2	1959.6
PB 2016 Total	896.2	21.7	22.2	24.8	25.3	25.8	26.3	810.0	1852.3
Delta	0.0	0.0	-1.3	-0.3	-0.4	-0.4	-0.5	110.2	107.3

Quantity Summary										
FY 2017 President's Budget / December 2015 SAR (TY$ M)										
Quantity	Undistributed	Prior	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	2190	284	261	319	317	317	316	8801	12805
PB 2017 Total	0	2190	284	261	319	317	317	316	8801	12805
PB 2016 Total	0	2190	285	289	330	332	336	339	8704	12805
Delta	0	0	-1	-28	-11	-15	-19	-23	97	0

Funding Summary - IDECM Block 4

Appropriation Summary									
FY 2017 President's Budget / December 2015 SAR (TY$ M)									
Appropriation	Prior	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
RDT&E	238.4	6.6	3.9	2.1	2.1	2.1	0.0	0.0	255.2
Procurement	304.0	108.4	57.6	49.9	46.9	47.7	48.7	328.7	991.9
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 2017 Total	542.4	115.0	61.5	52.0	49.0	49.8	48.7	328.7	1247.1
PB 2016 Total	547.7	119.0	49.7	60.3	49.8	50.8	44.9	14.3	936.5
Delta	-5.3	-4.0	11.8	-8.3	-0.8	-1.0	3.8	314.4	310.6

Quantity Summary										
FY 2017 President's Budget / December 2015 SAR (TY$ M)										
Quantity	Undistributed	Prior	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	95	48	20	17	16	16	16	96	324
PB 2017 Total	0	95	48	20	17	16	16	16	96	324
PB 2016 Total	0	85	40	15	19	12	13	6	0	190
Delta	0	10	8	5	-2	4	3	10	96	134

Cost and Funding

Annual Funding By Appropriation - IDECM Blocks 2/3

Annual Funding - IDECM Blocks 2/3 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
1995	--	--	--	--	--	--	11.8
1996	--	--	--	--	--	--	35.6
1997	--	--	--	--	--	--	49.7
1998	--	--	--	--	--	--	54.2
1999	--	--	--	--	--	--	56.5
2000	--	--	--	--	--	--	62.3
2001	--	--	--	--	--	--	40.8
2002	--	--	--	--	--	--	15.2
2003	--	--	--	--	--	--	12.9
2004	--	--	--	--	--	--	19.3
2005	--	--	--	--	--	--	12.9
2006	--	--	--	--	--	--	7.3
2007	--	--	--	--	--	--	8.6
2008	--	--	--	--	--	--	3.9
Subtotal	--	--	--	--	--	--	391.0

Annual Funding - IDECM Blocks 2/3 1319 | RDT&E | Research, Development, Test, and Evaluation, Navy							
Fiscal Year	Quantity	BY 2008 $M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1995	--	--	--	--	--	--	14.7
1996	--	--	--	--	--	--	43.5
1997	--	--	--	--	--	--	60.0
1998	--	--	--	--	--	--	64.9
1999	--	--	--	--	--	--	66.9
2000	--	--	--	--	--	--	72.7
2001	--	--	--	--	--	--	47.0
2002	--	--	--	--	--	--	17.3
2003	--	--	--	--	--	--	14.5
2004	--	--	--	--	--	--	21.1
2005	--	--	--	--	--	--	13.7
2006	--	--	--	--	--	--	7.5
2007	--	--	--	--	--	--	8.7
2008	--	--	--	--	--	--	3.9
Subtotal	--	--	--	--	--	--	456.4

Annual Funding - IDECM Blocks 2/3 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
2002	--	--	--	--	--	34.7	34.7
2003	--	--	--	--	--	25.9	25.9
2004	3	5.8	--	--	5.8	20.0	25.8
2005	12	21.6	--	--	21.6	14.4	36.0
2006	20	34.1	--	--	34.1	8.2	42.3
2007	14	26.5	--	--	26.5	8.4	34.9
2008	16	29.4	--	--	29.4	9.8	39.2
2009	9	20.8	--	1.4	22.2	19.3	41.5
2010	10	28.9	--	--	28.9	13.0	41.9
2011	1	7.1	--	--	7.1	11.7	18.8
Subtotal	85	174.2	--	1.4	175.6	165.4	341.0

Annual Funding - IDECM Blocks 2/3 1506 | Procurement | Aircraft Procurement, Navy							
Fiscal Year	Quantity	BY 2008 $M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2002	--	--	--	--	--	39.1	39.1
2003	--	--	--	--	--	28.6	28.6
2004	3	6.2	--	--	6.2	21.5	27.7
2005	12	22.6	--	--	22.6	15.0	37.6
2006	20	34.7	--	--	34.7	8.3	43.0
2007	14	26.3	--	--	26.3	8.4	34.7
2008	16	28.8	--	--	28.8	9.6	38.4
2009	9	20.1	--	1.4	21.5	18.6	40.1
2010	10	27.3	--	--	27.3	12.3	39.6
2011	1	6.6	--	--	6.6	10.8	17.4
Subtotal	85	172.6	--	1.4	174.0	172.2	346.2

Annual Funding - IDECM Blocks 2/3 1508 | Procurement | Procurement of Ammunition, Navy and Marine Corps							
Fiscal Year	Quantity	TY $M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2006	--	--	--	--	--	3.8	3.8
2007	--	--	--	--	--	0.4	0.4
2008	150	13.3	--	4.3	17.6	1.7	19.3
2009	251	14.0	--	1.4	15.4	1.5	16.9
2010	334	20.6	--	--	20.6	3.2	23.8
2011	282	17.2	--	--	17.2	1.8	19.0
2012	274	17.8	--	--	17.8	3.0	20.8
2013	269	17.5	--	--	17.5	1.0	18.5
2014	262	18.4	--	--	18.4	1.7	20.1
2015	283	19.9	--	--	19.9	1.7	21.6
2016	284	20.1	--	--	20.1	1.6	21.7
2017	261	19.2	--	--	19.2	1.7	20.9
2018	319	22.8	--	--	22.8	1.7	24.5
2019	317	23.2	--	--	23.2	1.7	24.9
2020	317	23.7	--	--	23.7	1.7	25.4
2021	316	24.1	--	--	24.1	1.7	25.8
2022	317	24.6	--	--	24.6	1.7	26.3
2023	318	25.1	--	--	25.1	1.8	26.9
2024	319	25.6	--	--	25.6	1.8	27.4
2025	320	26.1	--	--	26.1	1.8	27.9
2026	321	26.7	--	--	26.7	1.8	28.5
2027	322	27.2	--	--	27.2	1.8	29.0
2028	323	27.8	--	--	27.8	1.9	29.7
2029	324	28.4	--	--	28.4	1.9	30.3
2030	325	28.9	--	--	28.9	1.9	30.8
2031	326	29.5	--	--	29.5	1.9	31.4
2032	327	30.1	--	--	30.1	1.9	32.0
2033	328	30.8	--	--	30.8	2.0	32.8
2034	329	31.4	--	--	31.4	2.0	33.4
2035	330	32.0	--	--	32.0	2.0	34.0
2036	331	32.7	--	--	32.7	2.0	34.7
2037	332	33.4	--	--	33.4	2.0	35.4
2038	333	34.1	--	--	34.1	2.1	36.2
2039	334	34.8	--	--	34.8	2.1	36.9
2040	335	35.5	--	--	35.5	2.1	37.6
2041	336	36.2	--	--	36.2	2.1	38.3
2042	337	37.0	--	--	37.0	2.1	39.1
2043	338	37.7	--	--	37.7	2.2	39.9
2044	339	38.5	--	--	38.5	2.2	40.7
2045	340	39.3	--	--	39.3	2.2	41.5

2046	341	40.1	--	--	40.1	2.2	42.3
2047	342	40.9	--	--	40.9	2.2	43.1
2048	234	31.8	--	--	31.8	2.3	34.1
Subtotal	12720	1138.0	--	5.7	1143.7	83.9	1227.6

Annual Funding - IDECM Blocks 2/3 1508 | Procurement | Procurement of Ammunition, Navy and Marine Corps							
Fiscal Year	Quantity	BY 2008 $M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2006	--	--	--	--	--	3.9	3.9
2007	--	--	--	--	--	0.4	0.4
2008	150	13.0	--	4.2	17.2	1.7	18.9
2009	251	13.5	--	1.4	14.9	1.4	16.3
2010	334	19.5	--	--	19.5	3.0	22.5
2011	282	16.0	--	--	16.0	1.6	17.6
2012	274	16.3	--	--	16.3	2.7	19.0
2013	269	15.8	--	--	15.8	0.9	16.7
2014	262	16.4	--	--	16.4	1.5	17.9
2015	283	17.4	--	--	17.4	1.5	18.9
2016	284	17.3	--	--	17.3	1.4	18.7
2017	261	16.2	--	--	16.2	1.4	17.6
2018	319	18.9	--	--	18.9	1.4	20.3
2019	317	18.8	--	--	18.8	1.4	20.2
2020	317	18.9	--	--	18.9	1.3	20.2
2021	316	18.8	--	--	18.8	1.3	20.1
2022	317	18.8	--	--	18.8	1.3	20.1
2023	318	18.8	--	--	18.8	1.4	20.2
2024	319	18.8	--	--	18.8	1.3	20.1
2025	320	18.8	--	--	18.8	1.3	20.1
2026	321	18.9	--	--	18.9	1.2	20.1
2027	322	18.8	--	--	18.8	1.3	20.1
2028	323	18.9	--	--	18.9	1.3	20.2
2029	324	18.9	--	--	18.9	1.3	20.2
2030	325	18.9	--	--	18.9	1.2	20.1
2031	326	18.9	--	--	18.9	1.2	20.1
2032	327	18.9	--	--	18.9	1.2	20.1
2033	328	18.9	--	--	18.9	1.3	20.2
2034	329	18.9	--	--	18.9	1.2	20.1
2035	330	18.9	--	--	18.9	1.2	20.1
2036	331	18.9	--	--	18.9	1.2	20.1
2037	332	19.0	--	--	19.0	1.1	20.1
2038	333	19.0	--	--	19.0	1.2	20.2
2039	334	19.0	--	--	19.0	1.1	20.1
2040	335	19.0	--	--	19.0	1.1	20.1
2041	336	19.0	--	--	19.0	1.1	20.1
2042	337	19.0	--	--	19.0	1.1	20.1
2043	338	19.0	--	--	19.0	1.1	20.1
2044	339	19.0	--	--	19.0	1.1	20.1
2045	340	19.1	--	--	19.1	1.0	20.1

2046	341	19.1	--	--	19.1	1.0	20.1
2047	342	19.1	--	--	19.1	1.0	20.1
2048	234	14.5	--	--	14.5	1.1	15.6
Subtotal	12720	743.6	--	5.6	749.2	58.7	807.9

Annual Funding By Appropriation - IDECM Block 4

Annual Funding - IDECM Block 4 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
2008	--	--	--	--	--	--	5.2
2009	--	--	--	--	--	--	9.8
2010	--	--	--	--	--	--	62.3
2011	--	--	--	--	--	--	49.3
2012	--	--	--	--	--	--	60.3
2013	--	--	--	--	--	--	26.9
2014	--	--	--	--	--	--	13.5
2015	--	--	--	--	--	--	11.1
2016	--	--	--	--	--	--	6.6
2017	--	--	--	--	--	--	3.9
2018	--	--	--	--	--	--	2.1
2019	--	--	--	--	--	--	2.1
2020	--	--	--	--	--	--	2.1
Subtotal	--	--	--	--	--	--	255.2

Annual Funding - IDECM Block 4 1319 | RDT&E | Research, Development, Test, and Evaluation, Navy							
Fiscal Year	Quantity	BY 2008 $M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2008	--	--	--	--	--	--	5.1
2009	--	--	--	--	--	--	9.6
2010	--	--	--	--	--	--	60.0
2011	--	--	--	--	--	--	46.3
2012	--	--	--	--	--	--	55.8
2013	--	--	--	--	--	--	24.6
2014	--	--	--	--	--	--	12.2
2015	--	--	--	--	--	--	9.9
2016	--	--	--	--	--	--	5.8
2017	--	--	--	--	--	--	3.4
2018	--	--	--	--	--	--	1.8
2019	--	--	--	--	--	--	1.7
2020	--	--	--	--	--	--	1.7
Subtotal	--	--	--	--	--	--	237.9

Annual Funding - IDECM Block 4 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
2012	7	33.1	--	3.5	36.6	15.5	52.1
2013	17	42.7	--	--	42.7	21.0	63.7
2014	25	66.5	--	--	66.5	15.0	81.5
2015	46	87.3	--	--	87.3	19.4	106.7
2016	48	90.2	--	--	90.2	18.2	108.4
2017	20	50.5	--	--	50.5	7.1	57.6
2018	17	42.7	--	--	42.7	7.2	49.9
2019	16	39.7	--	--	39.7	7.2	46.9
2020	16	40.6	--	--	40.6	7.1	47.7
2021	16	41.5	--	--	41.5	7.2	48.7
2022	16	42.4	--	--	42.4	7.3	49.7
2023	16	43.3	--	--	43.3	7.3	50.6
2024	16	44.3	--	--	44.3	7.4	51.7
2025	16	45.2	--	--	45.2	7.5	52.7
2026	16	46.2	--	--	46.2	7.5	53.7
2027	16	47.2	--	--	47.2	7.6	54.8
2028	--	--	--	--	--	7.7	7.7
2029	--	--	--	--	--	7.8	7.8
Subtotal	324	803.4	--	3.5	806.9	185.0	991.9

Annual Funding - IDECM Block 4 1506 | Procurement | Aircraft Procurement, Navy							
Fiscal Year	Quantity	BY 2008 $M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2012	7	30.3	--	3.2	33.5	14.2	47.7
2013	17	38.6	--	--	38.6	19.0	57.6
2014	25	59.4	--	--	59.4	13.4	72.8
2015	46	76.8	--	--	76.8	17.1	93.9
2016	48	78.0	--	--	78.0	15.8	93.8
2017	20	42.9	--	--	42.9	6.0	48.9
2018	17	35.6	--	--	35.6	5.9	41.5
2019	16	32.4	--	--	32.4	5.9	38.3
2020	16	32.5	--	--	32.5	5.7	38.2
2021	16	32.6	--	--	32.6	5.6	38.2
2022	16	32.6	--	--	32.6	5.6	38.2
2023	16	32.7	--	--	32.7	5.5	38.2
2024	16	32.8	--	--	32.8	5.4	38.2
2025	16	32.8	--	--	32.8	5.4	38.2
2026	16	32.8	--	--	32.8	5.4	38.2
2027	16	32.9	--	--	32.9	5.3	38.2
2028	--	--	--	--	--	5.3	5.3
2029	--	--	--	--	--	5.2	5.2
Subtotal	324	655.7	--	3.2	658.9	151.7	810.6

Low Rate Initial Production

IDECM Blocks 2/3

Item	Initial LRIP Decision	Current Total LRIP
Approval Date	12/1/2000	6/28/2010
Approved Quantity	1	735
Reference	Program Review ADM	Gate 6 Program Review ADM
Start Year	2003	2003
End Year	2004	2012

Total LRIP is a summation of six LRIP authorizations between CY 2000 and CY 2010.

IDECM Block 4

There is no LRIP for this program.

Foreign Military Sales

IDECM Blocks 2/3

Country	Date of Sale	Quantity	Total Cost $M	Description
Australia	7/21/2011		9.9	Australia procured IDECM Block 2/3 (ALE-55) systems as part of the Australian Super Hornet procurement, per Line 32, Amendment 2 of Case AT-P-SAF.
Australia	6/28/2010		2.4	Australia procured IDECM Block 2/3 (EFC) systems as part of the Australian Super Hornet procurement, per Line 32, Amendment 2 of Case AT-P-SAF.
Australia	4/17/2009		4.0	Australia procured IDECM Block 2/3 (ALE-55) systems as part of the Australian Super Hornet procurement, per Line 32, Amendment 2 of Case AT-P-SAF.
Australia	4/17/2009		2.1	Australia procured IDECM Block 2/3 (EFC) systems as part of the Australian Super Hornet procurement, per Line 32, Amendment 2 of Case AT-P-SAF.
Australia	2/7/2008		43.5	Australia procured IDECM Block 2/3 (ALQ-214) systems and spares as part of the Australian Super Hornet procurement, per Line 25, Amendment 1 of Case AT-P-SAF.

Notes

Australian quantities are considered sensitive by the country.

IDECM Block 4

None

Nuclear Costs

IDECM Blocks 2/3

None

IDECM Block 4

None

Unit Cost

IDECM Blocks 2/3

Unit Cost Report

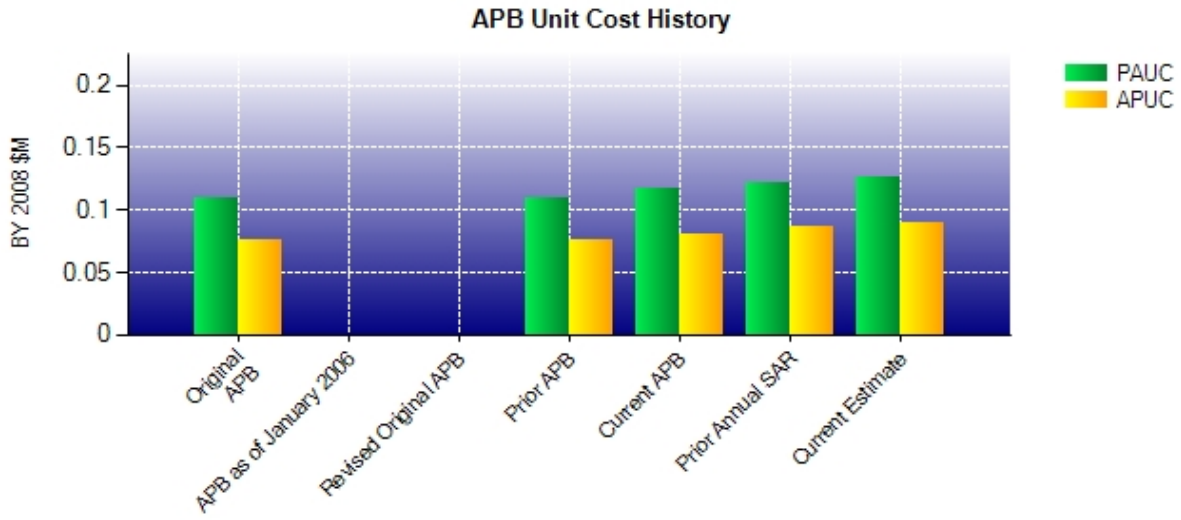
Item	BY 2008 $M Current UCR Baseline (Apr 2012 APB)	BY 2008 $M Current Estimate (Dec 2015 SAR)	% Change
Program Acquisition Unit Cost			
Cost	1493.9	1610.5	
Quantity	12805	12805	
Unit Cost	0.117	0.126	+7.69
Average Procurement Unit Cost			
Cost	1037.5	1154.1	
Quantity	12805	12805	
Unit Cost	0.081	**0.090**[1]	+11.11

Item	BY 2008 $M Original UCR Baseline (Jun 2008 APB)	BY 2008 $M Current Estimate (Dec 2015 SAR)	% Change
Program Acquisition Unit Cost			
Cost	1410.9	1610.5	
Quantity	12809	12805	
Unit Cost	0.110	0.126	+14.55
Average Procurement Unit Cost			
Cost	956.0	1154.1	
Quantity	12809	12805	
Unit Cost	0.075	0.090	+20.00

[1] *APB Unit Cost Breach*

IDECM Blocks 2/3

Unit Cost History



Item	Date	BY 2008 $M		TY $M	
		PAUC	APUC	PAUC	APUC
Original APB	Jun 2008	0.110	0.075	0.120	0.089
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	Jun 2011	0.110	0.075	0.120	0.089
Current APB	Feb 2014	0.117	0.081	0.130	0.100
Prior Annual SAR	Dec 2014	0.122	0.086	0.145	0.114
Current Estimate	Dec 2015	0.126	0.090	0.153	0.122

SAR Unit Cost History

Current SAR Baseline to Current Estimate (TY $M)									
Initial PAUC Production Estimate	Changes								PAUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.120	-0.001	-0.001	0.021	0.000	0.010	0.000	0.004	0.033	0.153

Current SAR Baseline to Current Estimate (TY $M)									
Initial APUC Production Estimate	Changes								APUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.089	-0.001	-0.001	0.021	0.000	0.010	0.000	0.004	0.033	0.122

SAR Baseline History				
Item	SAR Planning Estimate	SAR Development Estimate	SAR Production Estimate	Current Estimate
Milestone I	N/A	N/A	N/A	N/A
Milestone II	N/A	N/A	N/A	N/A
Milestone III	N/A	N/A	Nov 2003	Nov 2003
IOC	N/A	N/A	Sep 2004	Sep 2004
Total Cost (TY $M)	N/A	N/A	1535.2	1959.6
Total Quantity	N/A	N/A	12809	12805
PAUC	N/A	N/A	0.120	0.153

Milestone III and IOC dates in the table above reflects IDECM Block 2 only.

IDECM Block 4

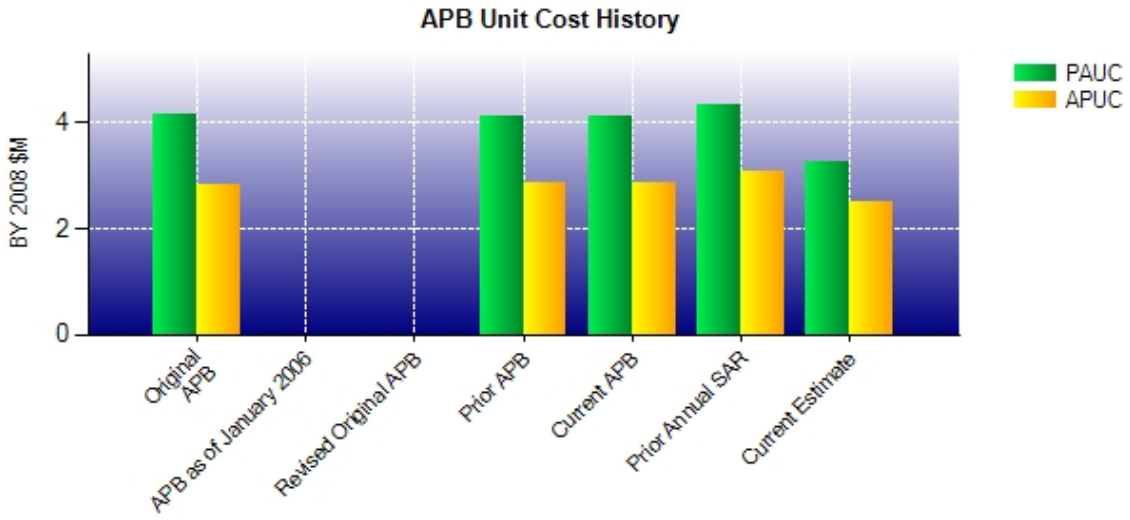
Unit Cost Report

Item	BY 2008 $M Current UCR Baseline (Feb 2014 APB)	BY 2008 $M Current Estimate (Dec 2015 SAR)	% Change
Program Acquisition Unit Cost			
Cost	781.7	1048.5	
Quantity	190	324	
Unit Cost	4.114	3.236	-21.34
Average Procurement Unit Cost			
Cost	541.9	810.6	
Quantity	190	324	
Unit Cost	2.852	2.502	-12.27

Item	BY 2008 $M Original UCR Baseline (Jun 2008 APB)	BY 2008 $M Current Estimate (Dec 2015 SAR)	% Change
Program Acquisition Unit Cost			
Cost	660.7	1048.5	
Quantity	160	324	
Unit Cost	4.129	3.236	-21.63
Average Procurement Unit Cost			
Cost	451.2	810.6	
Quantity	160	324	
Unit Cost	2.820	2.502	-11.28

IDECM Block 4

Unit Cost History



Item	Date	BY 2008 $M		TY $M	
		PAUC	APUC	PAUC	APUC
Original APB	Jun 2008	4.129	2.820	4.663	3.262
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	Apr 2012	4.114	2.852	4.543	3.206
Current APB	Feb 2014	4.114	2.852	4.543	3.206
Prior Annual SAR	Dec 2014	4.311	3.062	4.929	3.588
Current Estimate	Dec 2015	3.236	2.502	3.849	3.061

SAR Unit Cost History

Current SAR Baseline to Current Estimate (TY $M)									
Initial PAUC Development Estimate	Changes								PAUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
4.663	-0.061	-1.668	0.689	0.195	-0.220	0.000	0.251	-0.814	3.849

Current SAR Baseline to Current Estimate (TY $M)									
Initial APUC Development Estimate	Changes								APUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
3.262	-0.052	-0.960	0.689	0.000	-0.129	0.000	0.251	-0.201	3.061

SAR Baseline History				
Item	SAR Planning Estimate	SAR Development Estimate	SAR Production Estimate	Current Estimate
Milestone A	N/A	N/A	N/A	N/A
Milestone B	N/A	Mar 2009	N/A	N/A
Milestone C	N/A	Mar 2012	N/A	N/A
IOC	N/A	Feb 2014	N/A	May 2015
Total Cost (TY $M)	N/A	746.1	N/A	1247.1
Total Quantity	N/A	160	N/A	324
PAUC	N/A	4.663	N/A	3.849

Cost Variance

IDECM Blocks 2/3

Summary TY $M				
Item	**RDT&E**	**Procurement**	**MILCON**	**Total**
SAR Baseline (Production Estimate)	391.0	1144.2	--	1535.2
Previous Changes				
Economic	-1.3	-0.7	--	-2.0
Quantity	--	-11.2	--	-11.2
Schedule	--	+239.6	--	+239.6
Engineering	--	--	--	--
Estimating	+1.3	+52.7	--	+54.0
Other	--	--	--	--
Support	--	+36.7	--	+36.7
Subtotal	--	+317.1	--	+317.1
Current Changes				
Economic	--	-8.9	--	-8.9
Quantity	--	--	--	--
Schedule	--	+29.7	--	+29.7
Engineering	--	--	--	--
Estimating	--	+76.1	--	+76.1
Other	--	--	--	--
Support	--	+10.4	--	+10.4
Subtotal	--	+107.3	--	+107.3
Total Changes	--	+424.4	--	+424.4
CE - Cost Variance	391.0	1568.6	--	1959.6
CE - Cost & Funding	391.0	1568.6	--	1959.6

Summary BY 2008 $M				
Item	**RDT&E**	**Procurement**	**MILCON**	**Total**
SAR Baseline (Production Estimate)	454.9	956.0	--	1410.9
Previous Changes				
Economic	--	--	--	--
Quantity	--	-10.5	--	-10.5
Schedule	--	+90.4	--	+90.4
Engineering	--	--	--	--
Estimating	+1.5	+37.1	--	+38.6
Other	--	--	--	--
Support	--	+28.5	--	+28.5
Subtotal	+1.5	+145.5	--	+147.0
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	+2.0	--	+2.0
Engineering	--	--	--	--
Estimating	--	+44.8	--	+44.8
Other	--	--	--	--
Support	--	+5.8	--	+5.8
Subtotal	--	+52.6	--	+52.6
Total Changes	+1.5	+198.1	--	+199.6
CE - Cost Variance	456.4	1154.1	--	1610.5
CE - Cost & Funding	456.4	1154.1	--	1610.5

Previous Estimate: December 2014

Procurement	$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-8.9
Stretch-out of procurement buy profile of ALE-55 Fiber-Optic Towed Decoy (FOTD) from FY 2045 to FY 2048. (Schedule)	0.0	+20.5
Additional schedule variance for stretch-out of procurement buy profile of ALE-55 FOTD from FY 2045 to FY2048. (Schedule)	+2.0	+9.2
Adjustment for current and prior escalation. (Estimating)	+0.6	+0.5
Estimate updated to reflect actuals. (Estimating)	+44.2	+75.6
Adjustment for current and prior escalation. (Support)	-0.1	0.0
Increase in Other Support to reflect revised Government in-house support due to extension of end of program from FY 2045 to FY 2048. (Support)	+5.9	+10.4
Procurement Subtotal	+52.6	+107.3

Cost Variance

IDECM Block 4

Summary TY $M				
Item	**RDT&E**	**Procurement**	**MILCON**	**Total**
SAR Baseline (Development Estimate)	224.2	521.9	--	746.1
Previous Changes				
Economic	-2.4	-12.7	--	-15.1
Quantity	--	+69.8	--	+69.8
Schedule	--	+63.1	--	+63.1
Engineering	+63.3	--	--	+63.3
Estimating	-30.4	-12.9	--	-43.3
Other	--	--	--	--
Support	--	+52.6	--	+52.6
Subtotal	+30.5	+159.9	--	+190.4
Current Changes				
Economic	-0.3	-4.3	--	-4.6
Quantity	--	+154.6	--	+154.6
Schedule	--	+160.0	--	+160.0
Engineering	--	--	--	--
Estimating	+0.8	-28.9	--	-28.1
Other	--	--	--	--
Support	--	+28.7	--	+28.7
Subtotal	+0.5	+310.1	--	+310.6
Total Changes	+31.0	+470.0	--	+501.0
CE - Cost Variance	255.2	991.9	--	1247.1
CE - Cost & Funding	255.2	991.9	--	1247.1

Summary BY 2008 $M				
Item	**RDT&E**	**Procurement**	**MILCON**	**Total**
SAR Baseline (Development Estimate)	209.5	451.2	--	660.7
Previous Changes				
Economic	--	--	--	--
Quantity	--	+59.5	--	+59.5
Schedule	--	+42.0	--	+42.0
Engineering	+57.9	--	--	+57.9
Estimating	-30.2	-10.9	--	-41.1
Other	--	--	--	--
Support	--	+40.0	--	+40.0
Subtotal	+27.7	+130.6	--	+158.3
Current Changes				
Economic	--	--	--	--
Quantity	--	+108.1	--	+108.1
Schedule	--	+123.7	--	+123.7
Engineering	--	--	--	--
Estimating	+0.7	-20.8	--	-20.1
Other	--	--	--	--
Support	--	+17.8	--	+17.8
Subtotal	+0.7	+228.8	--	+229.5
Total Changes	+28.4	+359.4	--	+387.8
CE - Cost Variance	237.9	810.6	--	1048.5
CE - Cost & Funding	237.9	810.6	--	1048.5

Previous Estimate: December 2014

RDT&E	$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-0.3
Adjustment for current and prior escalation. (Estimating)	+0.2	+0.2
Revised estimate to reflect actuals (Estimating)	+0.5	+0.6
RDT&E Subtotal	+0.7	+0.5

Procurement	$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-4.3
Acceleration of procurement buy profile for ALQ-214(V)4/5s. (Schedule)	0.0	-5.4
Total Quantity variance resulting from an increase of 134 ALQ-214(V)4/5s from 190 to 324. (Subtotal)	+324.8	+433.6
Quantity variance resulting from an increase of 134 ALQ-214(V)4/5s from 190 to 324. (Quantity)	(+226.5)	(+302.1)
Allocation to Schedule resulting from Quantity change. (Schedule) (QR)	(+123.7)	(+165.4)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(-25.4)	(-33.9)
Additional quantity variance resulting from an increase of 134 ALQ-214(V)4/5s from 190 to 324. (Quantity)	-118.4	-147.5
Adjustment for current and prior escalation. (Estimating)	+1.3	+1.4
Revised estimate to reflect actuals. (Estimating)	+3.3	+3.6
Adjustment for current and prior escalation. (Support)	+0.5	+0.6
Increase in Other Support to reflect revised Government in-house support due to extension of end of program from FY 2023 to FY 2027. (Support)	+25.1	+37.1
Decrease in Initial Spares to reflect actuals. (Support)	-7.8	-9.0
Procurement Subtotal	+228.8	+310.1

(QR) Quantity Related

Contracts

Contract Identification

Appropriation: Procurement
Contract Name: IDECM Block 3 (ALE-55/EFC) FRP 2, 3 & 4
Contractor: BAE Systems
Contractor Location: 66 Spit Brook Road
Nashua, NH 06060
Contract Number: N00019-13-C-0010
Contract Type: Firm Fixed Price (FFP)
Award Date: December 17, 2012
Definitization Date: July 01, 2015

Contract Price							
Initial Contract Price ($M)			Current Contract Price ($M)			Estimated Price At Completion ($M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
50.8	N/A	660	80.8	N/A	1007	80.8	80.8

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the award of FRP 4.

Cost and Schedule Variance Explanations

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

Notes

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

Contract Identification

Appropriation: Procurement

Contract Name: IDECM Block 3 (ALE-55 FOTD) FRP 6

Contractor: BAE Systems

Contractor Location: 65 Spit Brook Road
Nashua, NH 06060

Contract Number: N00019-16-C-0020

Contract Type: Firm Fixed Price (FFP)

Award Date: December 17, 2015

Definitization Date: December 17, 2015

Contract Price							
Initial Contract Price ($M)			Current Contract Price ($M)			Estimated Price At Completion ($M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
20.9	N/A	284	20.9	N/A	284	20.9	20.9

Cost and Schedule Variance Explanations

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

Notes

This is the first time this contract is being reported.

Contract Identification

Appropriation: Procurement

Contract Name: IDECM Block 4 (ALQ-214) FRP 9, 10 & 11

Contractor: ITT Exelis

Contractor Location: 77 River Road
Clifton, NJ 07014

Contract Number: N00019-12-C-0002

Contract Type: Firm Fixed Price (FFP)

Award Date: April 16, 2012

Definitization Date: December 03, 2015

Contract Price							
Initial Contract Price ($M)			Current Contract Price ($M)			Estimated Price At Completion ($M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
64.3	N/A	23	291.6	N/A	131	291.6	291.6

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the addition of two ALQ-214 systems, award of FRPs 10 and 11, and modification for FRP 9 test equipment.

Cost and Schedule Variance Explanations

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

Contract Identification

Appropriation: Procurement

Contract Name: IDECM Block 4 (ALQ-214) FRP 12

Contractor: ITT Exelis

Contractor Location: 77 River Road
Clifton, NJ 07014

Contract Number: N00019-15-C-0104

Contract Type: Fixed Price Incentive(Firm Target) (FPIF)

Award Date: July 30, 2015

Definitization Date: July 30, 2015

Contract Price							
Initial Contract Price ($M)			Current Contract Price ($M)			Estimated Price At Completion ($M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
97.3	100.1	46	97.3	100.1	46	97.3	97.3

Cost and Schedule Variance Explanations

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

Notes

This is the first time this contract is being reported.

EVM waiver approved on July 23, 2015 by Deputy Assistant Secretary of the Navy (Acquisition and Procurement) (DASN (AP)).

Deliveries and Expenditures

IDECM Blocks 2/3

Deliveries				
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	0	0	0	--
Production	1987	1987	12805	15.52%
Total Program Quantity Delivered	1987	1987	12805	15.52%

Expended and Appropriated (TY $M)			
Total Acquisition Cost	1959.6	Years Appropriated	22
Expended to Date	847.1	Percent Years Appropriated	40.74%
Percent Expended	43.23%	Appropriated to Date	917.9
Total Funding Years	54	Percent Appropriated	46.84%

The above data is current as of February 09, 2016.

Deliveries reflect 85 ALQ-214s and 1,902 Fiber Optic Towed Decoys (FOTD). ALQ-214(V)3 deliveries are complete. Expenditures reflect IDECM Block 2/3 RDT&E, Aircraft Procurement, Navy (APN-5) and Procurement of Ammunition, Navy and Marine Corps.

IDECM Block 4

Deliveries				
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	0	0	0	--
Production	32	32	324	9.88%
Total Program Quantity Delivered	32	32	324	9.88%

Expended and Appropriated (TY $M)			
Total Acquisition Cost	1247.1	Years Appropriated	9
Expended to Date	339.7	Percent Years Appropriated	40.91%
Percent Expended	27.24%	Appropriated to Date	657.4
Total Funding Years	22	Percent Appropriated	52.71%

The above data is current as of February 09, 2016.

Operating and Support Cost

IDECM Blocks 2/3

Cost Estimate Details

Date of Estimate:	February 01, 2015
Source of Estimate:	POE
Quantity to Sustain:	85
Unit of Measure:	System
Service Life per Unit:	20.00 Years
Fiscal Years in Service:	FY 2006 - FY 2033

System - ALQ-214 (V)3 (quantity 85 ALQ-214(V)3 systems)
The ALE-55(V) is an expendable. The 12,720 ALE-55(V) systems are not included in the quantity of systems to sustain.
Flight Hours per aircraft per month: 30
Number of Operating System Years: 1,770
Total Life Cycle Flight Hours: 63,720

Sustainment Strategy

The maintenance concept for the ALQ-214(V)2/3 and ALE-55(V) is two levels, Organizational to Depot. Organizational Level activities will include: removal and replacement of faulty Weapons Replacement Assemblies (WRAs) identified by Built In Test (BIT)/Maintenance Service Panel (MSP) Code; removal and replacement of the Magazine containing the faulty decoy identified by BIT/MSP Code; loading of Operational Flight Program/Mission Data File with Memory Loader Verifier System as required; retest by BIT to verify repair action; end-to-end testing with Organizational Support Equipment (OSE) as required; corrosion control and phase inspections. Maintenance Support for the IDECM Blocks 2/3 is performed by fleet personnel. There are presently no Contractor Engineering & Technical Services or United States Navy Engineering & Technical Services representatives. If additional support is required, the Type Commander can then request technical assistance for the IDECM Deputy Assistant Program Manager Logistics (DAPML). The DAPML will assess the issue and request support from the Fleet Support Team (FST) and/or Original Equipment Manufacturer (OEM).

Depot Level activities will include: removal and replacement of faulty modules/parts to the component or Shop Replaceable Assembly (SRA) level and verification of repair. Depot level maintenance consists of inspection, test, troubleshooting, repair, overhaul and disposal of WRAs/SRAs which are beyond repair. Depot support is provided by the OEMs managed by the Naval Supply System Command Weapons Systems Support, Philadelphia.

The ALQ-214(V)2/3 and ALE-55(V) will contain a BIT capability consisting of Periodic BIT (PBIT) and Initiated BIT (IBIT). IBIT will be used as a preflight and maintenance test on the ground when commanded by the mission computer or other controller. These BIT test determine if the ALQ-214(V)2/3 WRAs and the ALE-55(V) are operational. PBIT provides automatic and continuous monitoring of mission critical parameters on a background basis during normal system operation. PBIT will not fault isolate but will give clear indications of mission critical failures signaling that IBIT needs to be run. IBIT consists of a series of tests to assess the operational status of the system as well as fault isolate problem hardware. End-to-end testing with utilizing a combination of OSE and BIT as required. On the F/A-18E/F, the ALE-55(V) IBIT is run simultaneously with the ALQ-214(V)2/3.

A Maintenance Plan (MaPl) for IDECM Blocks 2/3 is currently available to support the logistics program. The MaPls are updated as necessary to reflect configuration changes. IDECM Blocks 2/3 MaPl is a deliverable from the Logistics Management Information database and contains all necessary information for interim supply support and development of

source data for the F/A-18 Interactive Electronic Technical Manual. The FST at Jacksonville presently manages the MaPls for the ALQ-214(V)2/3 and ALE-55(V).

Antecedent Information

- Antecedent program: Aircraft Self Protection Jammer (ASPJ)
- # of Aircraft Operating Years: 1,770 (Not actual, but used in order to provide a comparison between the ALQ-214(V) 3 Suite and its antecedent system)

The BY Antecedent Average Annual Cost per System is derived from total FY 2009 - FY 2011 cost from Naval Visibility and Management of Operating and Support Costs database Naval Aviation Maintenance Subsystem Report (NAMSR) divided by the total number of systems in NAMSR for FY 2009 - FY 2011. This value is then multiplied by the total number of operating system years associated with the ALQ-214(V)3 Suite to provide a point of comparison.

Annual O&S Costs BY2008 $K		
Cost Element	**IDECM Blocks 2/3 Average Annual Cost Per System**	**Aircraft Self Protection Jammer (ASPJ) (Antecedent) Average Annual Cost Per ASPJ**
Unit-Level Manpower	0.000	0.000
Unit Operations	0.000	0.000
Maintenance	97.200	91.883
Sustaining Support	10.500	8.307
Continuing System Improvements	20.100	7.692
Indirect Support	0.000	0.000
Other	0.000	0.000
Total	127.800	107.882

Item	Total O&S Cost $M			
	IDECM Blocks 2/3			Aircraft Self Protection Jammer (ASPJ) (Antecedent)
	Current Production APB Objective/Threshold		Current Estimate	
Base Year	226.3	248.9	226.3	190.9
Then Year	290.6	N/A	290.6	N/A

Equation to Translate Annual Cost to Total Cost

The Average Annual Cost Per Aircraft for the ALQ-214(V)3 Suite is calculated by dividing the Total O&S Cost by the Total Operational System Years for the program.

ALQ-214(V)3 Total O&S Cost = ALQ-214(V)3 Annual O&S Cost per System * Total Operating System Years
$226.3M Total O&S Cost = $127.8K / System / Year * 1,770 Operating Years

O&S Cost Variance		
Category	**BY 2008 $M**	**Change Explanations**
Prior SAR Total O&S Estimates - Dec	226.3	

2014 SAR	
Programmatic/Planning Factors	0.0
Cost Estimating Methodology	0.0
Cost Data Update	0.0
Labor Rate	0.0
Energy Rate	0.0
Technical Input	0.0
Other	0.0
Total Changes	0.0
Current Estimate	226.3

Disposal Estimate Details

Date of Estimate: February 01, 2015

Source of Estimate: POE

Disposal/Demilitarization Total Cost (BY 2008 $M): Total costs for disposal of all System are 0.7

While these costs are not part of the CAPE 2007 O&S Cost Element Structure and hence are not included in the totals above, their Life Cycle Cost impact has been estimated at 0.680 BY 2008 $M and 1.059 TY $M.

IDECM Block 4

Cost Estimate Details

Date of Estimate:	March 01, 2016
Source of Estimate:	POE
Quantity to Sustain:	324
Unit of Measure:	System
Service Life per Unit:	20.00 Years
Fiscal Years in Service:	FY 2014 - FY 2038

System - ALQ-214
Flight Hours per aircraft per month: 30
Number of Operating System Years: 4,934
Total Life Cycle Flight Hours: 888,120

Sustainment Strategy

The IDECM Block 4 (IB-4), ALQ-214(V)4/5, is an Engineering Change Proposal to the ALQ-214(V)3 and as such will follow the same sustainment strategy and infrastructure established for the fielded ALQ-214(V)3.

The maintenance concept for the ALQ-214(V)4/5 is two levels, Organizational to Depot. Organizational Level activities will include: removal and replacement of faulty Weapons Replacement Assemblies (WRAs) identified by Built In Test (BIT)/Maintenance Service Panel Code; loading of Operational Flight Program/Mission Data File with Memory Loader Verifier System as required; retest by BIT to verify repair action; end-to-end testing with Organizational Support Equipment (OSE) as required; corrosion control and phase inspections. Maintenance Support for the IB-4 is performed by fleet personnel. There are presently no Contractor Engineering & Technical Services or Navy Engineering & Technical Services representatives. If additional support is required, the Type Commander can then request technical assistance for the IDECM Deputy Assistant Program Manager Logistics (DAPML). The DAPML will assess the issue and request support from the Fleet Support Team (FST) and/or Original Equipment Manfacturer (OEM).

Depot Level activities will include: removal and replacement of faulty modules/parts to the component or Shop Replaceable Assembly (SRA) level and verification of repair. Depot level maintenance consists of inspection, test, troubleshooting, repair, overhaul and disposal of WRAs/SRAs which are beyond repair. Depot support is provided by the OEMs managed by the Naval Supply Systems Command Weapon Systems Support, Philadelphia.

The ALQ-214(V)4/5 contain a BIT capability consisting of Periodic BIT (PBIT) and Initiated BIT (IBIT). IBIT is used as a preflight and maintenance test on the ground when commanded by the mission computer or other controller. These BIT determine if the ALQ-214(V)4/5 WRAs are operational. PBIT provides automatic and continuous monitoring of mission critical parameters on a background basis during normal system operation. PBIT will not fault isolate but will give clear indications of mission critical failures signaling that IBIT needs to be run. IBIT consists of a series of tests to assess the operational status of the system as well as fault isolate problem hardware. End-to-end testing utilizes a combination of OSE and BIT as required.

A preliminary Maintenance Plan (MaPl) for IB-4 is currently available to support the logistics program. The MaPls will be updated as necessary to reflect configuration changes. IB-4 MaPl is a deliverable from the Logistics Management Information database and contains all necessary information for interim supply support and development of source data for the F/A-18 Interactive Electronic Technical Manual. Following IOC, IB-4 MaPl management will transition to the FST at Fleet Readiness Center-Southeast, In-Service Support Center, Jacksonville, Florida.

Antecedent Information

- Antecedent program: Aircraft Self Protection Jammer (ASPJ)
- # of Aircraft Operating Years: 4,934 (Not actual, but used in order to provide a comparison between the ALQ-214(V) 4 Suite and its antecedent system)

The BY Antecedent Average Annual Cost per System is derived from total FY 2009 - FY 2011 cost from Naval Visibility and Management of Operating and Support Costs database Naval Aviation Maintenance Subsystem Report (NAMSR) divided by the total number of systems in NAMSR for FY 2009 - FY 2011. This value is then multiplied by the total number of operating system years associated with ALQ-214(V)4 Suite to provide a point of comparison.

Annual O&S Costs BY2008 $K		
Cost Element	**IDECM Block 4 Average Annual Cost Per System**	**Aircraft Self Protection Jammer (ASPJ) (Antecedent) Average Annual Cost Per ASPJ**
Unit-Level Manpower	0.000	0.000
Unit Operations	0.000	0.000
Maintenance	63.268	91.883
Sustaining Support	3.906	8.307
Continuing System Improvements	8.243	7.692
Indirect Support	0.000	0.000
Other	0.000	0.000
Total	75.417	107.882

Item	Total O&S Cost $M			
	IDECM Block 4			Aircraft Self Protection Jammer (ASPJ) (Antecedent)
	Current Development APB Objective/Threshold		Current Estimate	
Base Year	264.7	291.2	**372.1**[1]	532.3
Then Year	378.8	N/A	545.9	N/A

[1] *APB O&S Cost Breach*

Equation to Translate Annual Cost to Total Cost

The Average Annual Cost Per Aircraft for the ALQ-214(V)4 Suite is calculated by dividing the Total O&S Cost by the Total Operational System Years for the program.

ALQ-214(V)4 Total O&S Cost = ALQ-214(V)4 Annual O&S Cost per System * Total Operating System Years
$372.1M Total O&S Cost = $75.4K / System / Year * 4,934 Operating Years

O&S Cost Variance		
Category	**BY 2008 $M**	**Change Explanations**
Prior SAR Total O&S Estimates - Dec 2014 SAR	264.7	
Programmatic/Planning Factors	107.4	Increase in O&S estimate to resulting from an increase of 134 ALQ-214(V)4/5 systems from 190 to 324.

Cost Estimating Methodology	0.0
Cost Data Update	0.0
Labor Rate	0.0
Energy Rate	0.0
Technical Input	0.0
Other	0.0
Total Changes	107.4
Current Estimate	372.1

Disposal Estimate Details

Date of Estimate: February 01, 2015

Source of Estimate: POE

Disposal/Demilitarization Total Cost (BY 2008 $M): Total costs for disposal of all System are 1.5

While these costs are not part of the CAPE 2007 O&S Cost Element Structure and hence are not included in the totals above, their Life Cycle Cost impact has been estimated at 1.520 BY 2008 $M and 2.490 TY $M.