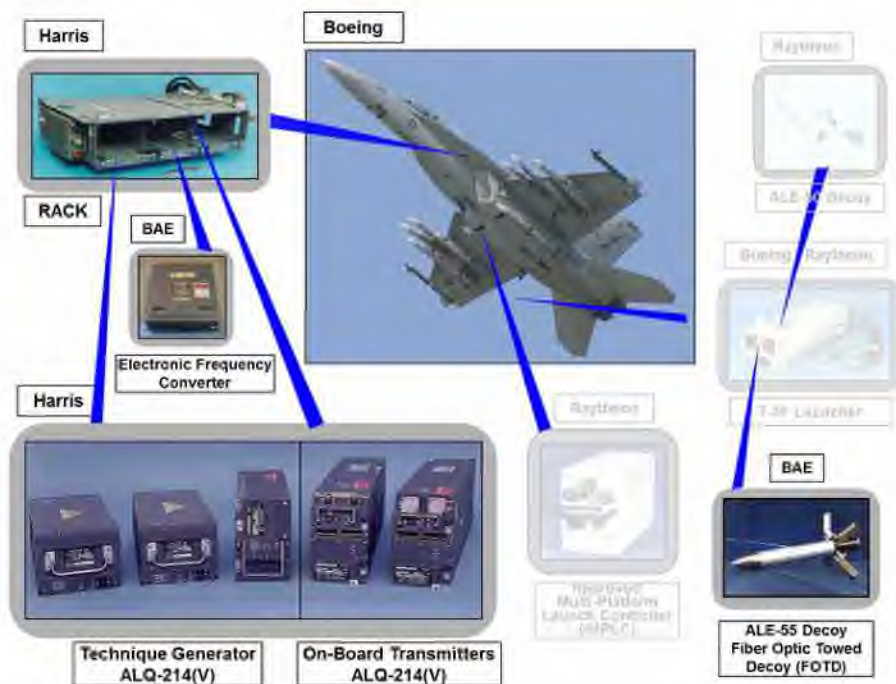


UNCLASSIFIED



Selected Acquisition Report (SAR)

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



Integrated Defensive Electronic Countermeasures (IDECM)

As of FY 2019 President's Budget

Defense Acquisition Management
Information Retrieval
(DAMIR)

UNCLASSIFIED

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Sensitivity Originator

No originator info Available at this time.

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

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Date Assigned: October 14, 2016

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References

IDECM Blocks 2/3

SAR Baseline (Production Estimate)

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

Approved APB

Navy Acquisition Executive (NAE) 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 12, 2018

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.

ALQ-214 Adaptive Radar Countermeasures (ARC): ALQ-214 ARC will provide the ALQ-214 with improved RF Threat Detection algorithms and jamming against modern threat radars not programmed in mission data files (unknowns).

Executive Summary

Program Highlights Since Last Report

The 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-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 276 ALQ-214(V)3 production systems under the LRIP 1 through FRP 8 contracts.

IDECM Block-3 (IB-3) addition of ALE-55 Fiber Optic Towed Decoy (FOTD):

The ALE-55 is in FRP and all production contracts are performing well. As of February 12, 2018, BAE Systems has delivered 2,439 FOTD and 424 Electronic Frequency Converters (EFC) under the LRIP 4 through FRP 7 contracts. EFC deliveries are 100% complete. The FRP 6 through 9 contract (base with three options) was awarded on December 17, 2015. FRP 6 deliveries are complete. FRP 7 option was awarded on December 14, 2016. FRP 7 deliveries began in December 2017. FRP 8 was awarded on 30 November 2017. FRP 8 deliveries are planned to begin in December 2018.

IDECM Block 2/3 reported deviations in the December 2015 and 2016 Selected Acquisition Report (SARs) for procurement costs as a result of funding/budget reductions which stretched out the program duration. In the December 2016 SAR, the IDECM program office recommended managing the expendable requirements through the Naval Munitions Requirements Process (which aligns with Department of Defense Instruction (DoDI) 3000.04) along with all other countermeasure expendables in the Department of Navy (DoN) Inventory. In August 2017, the Navy supported the recommendation, via an Acquisition Decision Memorandum, which directed PMA-272 to manage the ALE-55 expendable Fiber Optic Towed Decoy solely through the NMRP.

The 2019 President's Budget includes the requirement for a Dual Band Decoy (DBD) to counter future threats and is funded (RDT&E in FY2019 and Procurement (PANMC) in FY2022). DBD will not be part of IDECM Block 2/3 or Block 4 subprograms. In the process of aligning/planning the FYDP funding, DBD is planning for production readiness in FY2022. As a result of DBD planning/funding, the quantity projections for ALE-55 are drastically reduced and create a critical Nunn-McCurdy breach against both the original and current baseline of IDECM Block 2/3. This breach is due solely to reducing the quantity of ALE-55 by 69%.

IDECM Block-4 (IB-4) ALQ-214 Engineering Change Proposal and Software Improvement Program (SWIP):

IB-4 SWIP required to address emerging threats entered Developmental Test/Integrated Test (IT) in April 2016. IT planned to be complete by 3rd Quarter FY 2018. SWIP fielding planned in 3rd Quarter FY 2018.

IDECM Block-4 (IB-4) Production:

The FRP 9 through 11 contract (base with two options) was awarded on April 16, 2012. FRP 9, 10 and 11 deliveries are complete. The FRP 12/13 contract (base with one option) was awarded on July 30, 2015. FRP 12 deliveries began in March 2017 and are complete. As of February 12, 2018, Harris has delivered 185 ALQ-214(V)4 production systems under the FRP 9 through 13 contracts. The FRP 13 option was awarded on March 18, 2016. FRP 13 deliveries began in January 2018. FRP 14 was awarded on September 27, 2017 and deliveries are planned to begin in June 2019. FRP 15 was awarded on February 8, 2018 and deliveries are planned to begin in June 2020.

Adaptive Radar Countermeasures (ARC) is an upgrade to the on-board component of the IDECM suite. The RDT&E associated with ARC is significant enough to cause an RDT&E deviation for IDECM Block 4. The Program Office is

documenting this deviation in a Program Deviation Report (PDR).

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

History of Significant Developments Since Program Initiation

History of Significant Developments Since Program Initiation	
Date	Significant Development Description
1st Quarter FY 2008	In September 2007, PMA272 requested re-designation of IDECM from Acquisition Category (ACAT) II to ACAT IC. The requirement to re-designate was identified as part of a cost estimate performed by the AIR 4.2 Cost Department in support of the re-baseline effort and in preparation for the IB-3 FRP decision. The analysis identified that continued RDT&E investments over the course of the IBs 1-3 development program resulted in cumulative RDT&E funding, which is above the demarcation line between ACAT II and ACAT I (\$365M total in FY 2000\$). The request to re-designate as ACAT IC was approved by ASN (RD&A) in March 2008.
2nd Quarter FY 2008	In January 2008, corrective actions (hardware and software) for all anomalies required for IB-3 to return to OT were incorporated and demonstrated to be effective through DT laboratory and flight testing. IB-3 returned to Initial Operational Test and Evaluation (IOT&E) in February 2008. IB-3 IOT&E completed in September 2008. The OT Report was received on December 19, 2008 with a finding of "operationally effective" but "not operationally suitable".
3rd Quarter FY 2008	The IDECM ACAT IC APB was approved and includes the increments for IB 2/3 and the increment for IB-4.
2nd Quarter FY 2009	An IDECM Block 4 Program Decision Review was conducted with ASN (RD&A) in March 2009. The IB-4 acquisition and contract strategy, which supported development of a Common OBJ for the F/A-18 C/D/E/F aircraft through sole source contract awards to Harris (formerly Exelis) for modifications to the ALQ-214, was presented to ASN (RD&A). An IB-4 APB schedule deviation was recommended to replace IB-4 Milestone B and C events with In-Process Reviews (IPRs) to provide more appropriate oversight of an ECP modification to a system already in FRP. ASN (RD&A) support for the IB-4 strategy was documented by an ADM, dated 4 May 2009. IB-4 cost, schedule and performance requirements were contained in the IDECM APB Change 1, approved July 10, 2009.
2nd Quarter FY 2009	An IDECM Block 3 Program Decision Review was conducted with ASN (RD&A) in March 2009. The purpose of the review was to evaluate Program Office recommendations to deviate from APB schedules and to include additional IB-3 LRIP awards, allowing for the correction of deficiencies identified during IB-3 IOT&E Report (OT-IIB), prior to FRP. ASN (RD&A) supported the IB-3 acquisition strategy change to include additional LRIP lots; specifically LRIP 5 in FY 2009 and LRIP 6 in FY 2010. ASN (RD&A) support for the IB-3 strategy was documented by an Acquisition Decision Memorandum (ADM), dated April 13, 2009. IB-2/3 cost, schedule and performance requirements were contained in the IDECM APB Change 1, approved July 10, 2009.
1st Quarter FY 2010	An IDECM Block 4 ECP Preliminary Design Review (PDR) was successfully completed in November 2009.
3rd Quarter FY 2010	An IDECM Block 4 ECP Critical Design Review (CDR) was successfully completed in May 2010. As a result of CDR, AIR-4.2 updated the cost estimate and identified an Operations & Support (O&S) cost deviation to the APB. The O&S cost estimate increased due to use of an incorrectly calculated Mean Time Between Failure (MTBF), which resulted in an artificially low estimate of the number of failures and associated repair costs. A Program Deviation Report was routed and the IDECM APB Change 2 was approved on October 18, 2010.
2nd Quarter FY 2011	As a result of PB12, IB-4 required a cost re-baseline to address an increase of funds over the Future Years Defense Program (FYDP). The RDT&E breach was due to an increase of funds for ALQ-214 SWIP for Deny-Delay jamming functionality. The procurement breach was due to an increase of funds to procure additional IB-4 systems. A Program Deviation Report (PDR) was routed and the IDECM APB Change 3 was approved on June 07, 2011.
3rd Quarter FY 2013	An In-Process Review was conducted with ASN(RD&A) on April 9, 2013. System software

	demonstrated a lack of maturity requiring additional time, which resulted in an APB schedule breach of the Operational Test (OT) Start. ASN(RD&A) approved revision of the APB objectives to reflect current estimates for OT Start, IPR 5, IPR 6 and IOC. There was no impact to cost or performance. The IPR resulted in direction to update the IDECM Acquisition Strategy to reflect award of the existing Firm Fixed Price (FFP) production option in FY 2014 following IPR 5 in early FY 2014 and conduct of the final IPR (IPR 6) after completion of Operational Test.
1st Quarter FY 2014	An In-Process Review was conducted electronically with ASN(RD&A) from January 10, 2014 to January 24, 2014. The purpose of this IPR was to provide status of IB-4; gain concurrence to exercise the FY 2014 production award; and provide an assessment of the IDECM Configuration Steering Board (CSB) annual requirement. All input criteria were satisfied. The program was directed to return for IPR 6 following completion of OT to support the FY 2015 and planned subsequent annual procurements of the ALQ-214.
2nd Quarter FY 2015	On March 10, 2015, PMA 272 submitted a PDR for the ECP portion of the IB-4 program due to a flight test schedule breach. OT had been delayed due to a lack of aircraft and threat simulator availability at the test range. The previous "electronically conducted" IPR 5, documented stability of the IB-4 ECP hardware and software configuration and the OTRR granted start to OT. 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. A revised APB which reflects the current schedule estimates was signed February 17, 2016.
3rd Quarter FY 2015	IB-4 Hardware ECP Initial Operational Capability (IOC) achieved May 2015.
4th Quarter FY 2015	The Navy completed an IDECM SWIP operational assessment (OA) on September 30, 2015.
4th Quarter FY 2017	IDECM Block 2/3 reported deviations in the December 2015 and 2016 Selected Acquisition Report (SARs) for procurement costs as a result of funding/budget reductions which stretched out the program duration. In the December 2016 SAR, the IDECM program office recommended managing the expendable requirements through the Naval Munitions Requirements Process (which aligns with Department of Defense Instruction (DoDI) 3000.04) along with all other countermeasure expendables in the Department of Navy (DoN) Inventory. In August 2017, the Navy supported the recommendation, via an Acquisition Decision Memorandum, which directed PMA-272 to manage the ALE-55 expendable Fiber Optic Towed Decoy solely through the NMRRP. The 2019 President's Budget includes the requirement for a Dual Band Decoy (DBD) to counter future threats and is funded (RDT&E in FY2019 and Procurement (PANMC) in FY2022). DBD will not be part of IDECM Block 2/3 or Block 4 subprograms. In the process of aligning/planning the FYDP funding, DBD is planning for production readiness in FY2022 resulting in no future requirements for ALE-55 beyond FY2021. As a result of DBD planning/funding, the quantity projections for ALE-55 are drastically reduced and create a critical Nunn-McCurdy breach against both the original and current baseline of IDECM Block 2/3. This breach is due solely to reducing the quantity of ALE-55 by 69%.
4th Quarter FY 2017	On August 18, 2017, via ADM, PMA-272 was authorized to route a revised APB to reflect IDECM Block 4 changes to Procurement and O&S parameters due to an increase in quantities, from 190 units to 324 units. A revised APB which reflects the current cost estimates was signed February 12, 2018.

Threshold Breaches

IDECM Blocks 2/3

APB Breaches			Explanation of Breach
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 checked="" type="checkbox"/>	
	APUC	<input checked="" type="checkbox"/>	
Nunn-McCurdy Breaches			
Current UCR Baseline			The 2019 President's Budget includes the requirement for a Dual Band Decoy (DBD) to counter future threats and is funded (RDT&E in FY2019 and Procurement (PANMC) in FY2022). DBD will not be part of IDECM Block 2/3 or Block 4 subprograms. In the process of aligning/planning the FYDP funding, DBD is planning for production readiness in FY2022. As a result of DBD planning/funding, the quantity projections for ALE-55 are drastically reduced and create a critical Nunn-McCurdy breach against both the original and current baseline of IDECM Block 2/3. This breach is due solely to reducing the quantity of ALE-55 by 69%.
	PAUC	Critical	
	APUC	Critical	
Original UCR Baseline			
	PAUC	Critical	
	APUC	Critical	

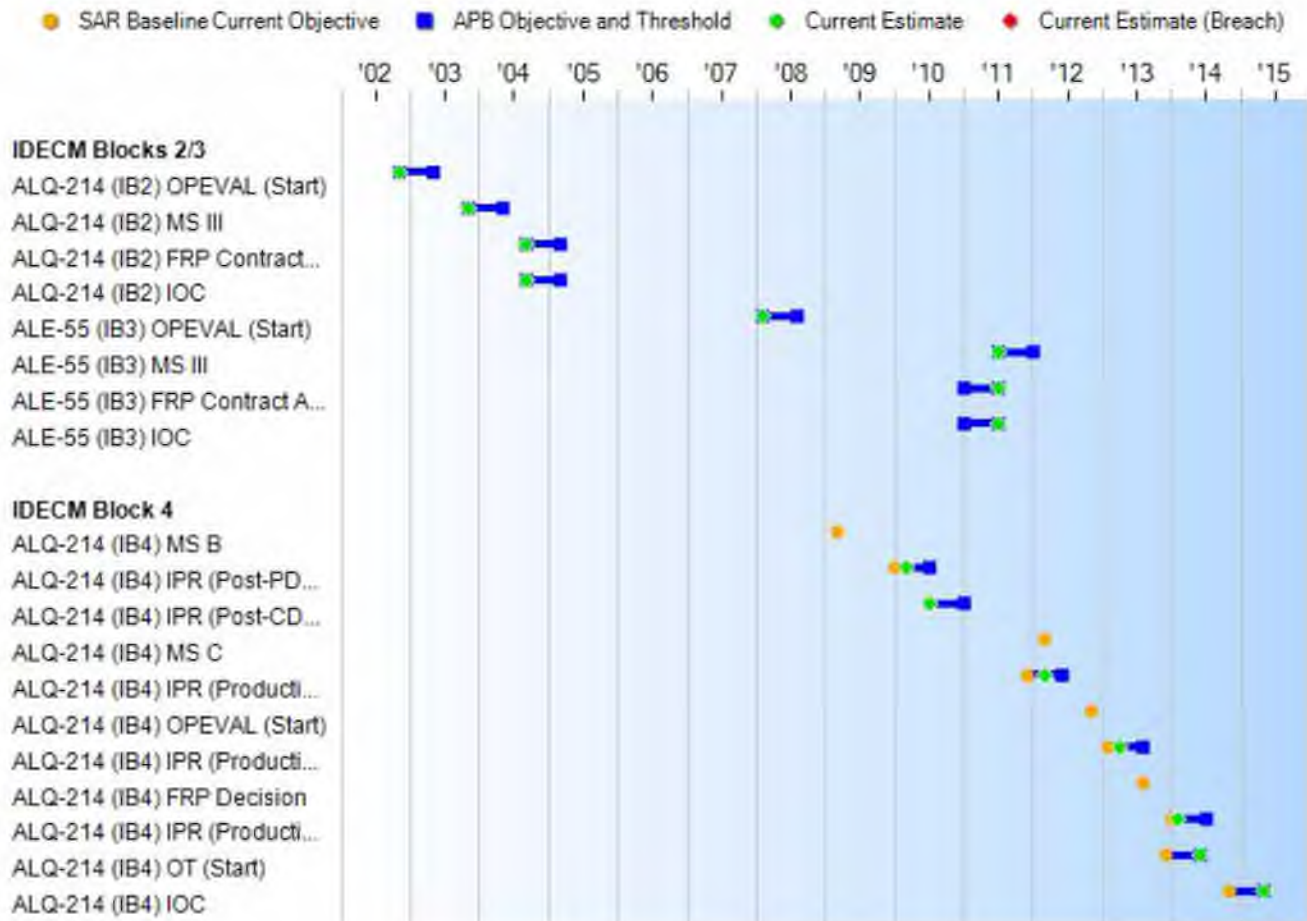
IDECM Block 4

APB Breaches		
Schedule		<input type="checkbox"/>
Performance		<input type="checkbox"/>
Cost	RDT&E	<input checked="" 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

Explanation of Breach	
Adaptive Radar Countermeasures (ARC) is an upgrade to the on-board component of the IDECM suite. The RDT&E associated with ARC is significant enough to cause an RDT&E deviation for IDECM Block 4. The Program Office is documenting this deviation in a Program Deviation Report (PDR).	

Original UCR Baseline	APUC	None
	PAUC	None
	APUC	None

Schedule



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) IOC	Feb 2014	Nov 2014	May 2015	May 2015

Change Explanations

None

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

ORD (Block 2) dated November 2003 and 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

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
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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	696.5	--	810.4	615.2	648.7	795.1
Procurement	1407.2	1832.6	--	1339.9	1666.1	2251.6	1514.0
Flyaway	--	--	--	983.3	--	--	1129.1
Recurring	--	--	--	973.1	--	--	1118.5
Non Recurring	--	--	--	10.2	--	--	10.6
Support	--	--	--	356.6	--	--	384.9
Other Support	--	--	--	210.0	--	--	235.5
Initial Spares	--	--	--	146.6	--	--	149.4
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	2529.1	N/A	2150.3	2281.3	2900.3	2309.1

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	611.8	1144.2	1276.4	643.4
Flyaway	--	--	--	413.4	--	--	449.0
Recurring	--	--	--	406.4	--	--	441.9
Non Recurring	--	--	--	7.0	--	--	7.1
Support	--	--	--	198.4	--	--	194.4
Other Support	--	--	--	118.9	--	--	122.7
Initial Spares	--	--	--	79.5	--	--	71.7
MILCON	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
Total	1410.9	1493.9	N/A	1068.2	1535.2	1667.4	1034.4

Cost Notes

In accordance with Section 842 of the National Defense Authorization Act for FY 2017, which amended title 10 U.S.C. § 2334, the Director of Cost Assessment and Program Evaluation, and the Secretary of the military department concerned or the head of the Defense Agency concerned, must issue guidance requiring a discussion of risk, the potential impacts of risk on program costs, and approaches to mitigate risk in cost estimates for MDAPs and major subprograms. The information required by the guidance is to be reported in each SAR. This guidance is not yet available; therefore, the information on cost risk is not contained in this SAR.

Total Quantity - IDECM Blocks 2/3			
Quantity	SAR Baseline Production Estimate	Current APB Production	Current Estimate
RDT&E	0	0	0
Procurement	12809	12805	3930
Total	12809	12805	3930

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 Production Objective/Threshold		Current Estimate	SAR Baseline Development Estimate	Current APB Production Objective	Current Estimate
RDT&E	209.5	240.1	264.1	354.0 ¹	224.2	257.7	404.1
Procurement	451.2	795.1	874.6	728.1	521.9	975.2	870.6
Flyaway	--	--	--	569.9	--	--	680.1
Recurring	--	--	--	566.7	--	--	676.6
Non Recurring	--	--	--	3.2	--	--	3.5
Support	--	--	--	158.2	--	--	190.5
Other Support	--	--	--	91.1	--	--	112.8
Initial Spares	--	--	--	67.1	--	--	77.7
MILCON	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
Total	660.7	1035.2	N/A	1082.1	746.1	1232.9	1274.7

¹ APB Breach

Current APB Cost Estimate Reference

PMA272/AIR 4.2 dated August 01, 2017

Cost Notes

In accordance with Section 842 of the National Defense Authorization Act for FY 2017, which amended title 10 U.S.C. § 2334, the Director of Cost Assessment and Program Evaluation, and the Secretary of the military department concerned or the head of the Defense Agency concerned, must issue guidance requiring a discussion of risk, the potential impacts of risk on program costs, and approaches to mitigate risk in cost estimates for MDAPs and major subprograms. The information required by the guidance is to be reported in each SAR. This guidance is not yet available; therefore, the information on cost risk is not contained in this SAR.

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

Cost and Funding

Funding Summary - Total Program

Appropriation Summary									
FY 2019 President's Budget / December 2017 SAR (TY\$ M)									
Appropriation	Prior	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
RDT&E	645.5	2.1	15.3	10.8	23.9	24.2	30.6	42.7	795.1
Procurement	1010.5	83.0	76.3	82.2	72.6	49.0	49.9	90.5	1514.0
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2019 Total	1656.0	85.1	91.6	93.0	96.5	73.2	80.5	133.2	2309.1
PB 2018 Total	1642.5	75.5	73.1	74.5	73.8	75.2	76.5	1113.7	3204.8
Delta	13.5	9.6	18.5	18.5	22.7	-2.0	4.0	-980.5	-895.7

Cost and Funding

Funding Summary - IDECM Blocks 2/3

Appropriation Summary									
FY 2019 President's Budget / December 2017 SAR (TY\$ M)									
Appropriation	Prior	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
RDT&E	391.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	391.0
Procurement	547.4	23.5	23.7	24.2	24.6	0.0	0.0	0.0	643.4
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 2019 Total	938.4	23.5	23.7	24.2	24.6	0.0	0.0	0.0	1034.4
PB 2018 Total	938.4	23.5	24.0	24.5	24.9	25.4	25.9	885.3	1971.9
Delta	0.0	0.0	-0.3	-0.3	-0.3	-25.4	-25.9	-885.3	-937.5

Quantity Summary										
FY 2019 President's Budget / December 2017 SAR (TY\$ M)										
Quantity	Undistributed	Prior	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	2727	303	300	300	300	0	0	0	3930
PB 2019 Total	0	2727	303	300	300	300	0	0	0	3930
PB 2018 Total	0	2727	301	299	304	304	305	306	8259	12805
Delta	0	0	2	1	-4	-4	-305	-306	-8259	-8875

Funding Summary - IDECM Block 4

Appropriation Summary									
FY 2019 President's Budget / December 2017 SAR (TY\$ M)									
Appropriation	Prior	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
RDT&E	254.5	2.1	15.3	10.8	23.9	24.2	30.6	42.7	404.1
Procurement	463.1	59.5	52.6	58.0	48.0	49.0	49.9	90.5	870.6
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 2019 Total	717.6	61.6	67.9	68.8	71.9	73.2	80.5	133.2	1274.7
PB 2018 Total	704.1	52.0	49.1	50.0	48.9	49.8	50.6	228.4	1232.9
Delta	13.5	9.6	18.8	18.8	23.0	23.4	29.9	-95.2	41.8

Quantity Summary										
FY 2019 President's Budget / December 2017 SAR (TY\$ M)										
Quantity	Undistributed	Prior	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	168	22	21	21	21	22	22	27	324
PB 2019 Total	0	168	22	21	21	21	22	22	27	324
PB 2018 Total	0	162	17	17	16	16	16	16	64	324
Delta	0	6	5	4	5	5	6	6	-37	0

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	253	18.8	--	--	18.8	1.7	20.5
2018	303	21.8	--	--	21.8	1.7	23.5
2019	300	22.3	--	--	22.3	1.4	23.7
2020	300	22.8	--	--	22.8	1.4	24.2
2021	300	23.2	--	--	23.2	1.4	24.6
Subtotal	3845	267.7	--	5.7	273.4	29.0	302.4

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	253	15.9	--	--	15.9	1.5	17.4
2018	303	18.1	--	--	18.1	1.4	19.5
2019	300	18.2	--	--	18.2	1.1	19.3
2020	300	18.2	--	--	18.2	1.1	19.3
2021	300	18.2	--	--	18.2	1.1	19.3
Subtotal	3845	233.8	--	5.6	239.4	26.2	265.6

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	--	--	--	--	--	--	9.1
2017	--	--	--	--	--	--	7.0
2018	--	--	--	--	--	--	2.1
2019	--	--	--	--	--	--	15.3
2020	--	--	--	--	--	--	10.8
2021	--	--	--	--	--	--	23.9
2022	--	--	--	--	--	--	24.2
2023	--	--	--	--	--	--	30.6
2024	--	--	--	--	--	--	14.2
2025	--	--	--	--	--	--	14.2
2026	--	--	--	--	--	--	14.3
Subtotal	--	--	--	--	--	--	404.1

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	--	--	--	--	--	--	--	8.0
2017	--	--	--	--	--	--	--	6.0
2018	--	--	--	--	--	--	--	1.8
2019	--	--	--	--	--	--	--	12.7
2020	--	--	--	--	--	--	--	8.8
2021	--	--	--	--	--	--	--	19.1
2022	--	--	--	--	--	--	--	19.0
2023	--	--	--	--	--	--	--	23.5
2024	--	--	--	--	--	--	--	10.7
2025	--	--	--	--	--	--	--	10.5
2026	--	--	--	--	--	--	--	10.4
Subtotal	--	--	--	--	--	--	--	354.0

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	3.9	94.1
2017	25	47.5	--	--	47.5	17.5	65.0
2018	22	42.7	--	--	42.7	16.8	59.5
2019	21	39.8	--	--	39.8	12.8	52.6
2020	21	40.8	--	--	40.8	17.2	58.0
2021	21	41.7	--	--	41.7	6.3	48.0
2022	22	42.6	--	--	42.6	6.4	49.0
2023	22	43.5	--	--	43.5	6.4	49.9
2024	22	44.4	--	--	44.4	8.0	52.4
2025	5	13.8	--	--	13.8	8.0	21.8
2026	--	--	--	--	--	8.1	8.1
2027	--	--	--	--	--	8.2	8.2
Subtotal	324	676.6	--	3.5	680.1	190.5	870.6

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	38.7	--	--	38.7	19.0	57.7
2014	25	59.4	--	--	59.4	13.4	72.8
2015	46	76.9	--	--	76.9	17.1	94.0
2016	48	78.1	--	--	78.1	3.3	81.4
2017	25	40.4	--	--	40.4	14.9	55.3
2018	22	35.7	--	--	35.7	14.0	49.7
2019	21	32.6	--	--	32.6	10.5	43.1
2020	21	32.8	--	--	32.8	13.8	46.6
2021	21	32.9	--	--	32.9	4.9	37.8
2022	22	32.9	--	--	32.9	5.0	37.9
2023	22	33.0	--	--	33.0	4.8	37.8
2024	22	33.0	--	--	33.0	5.9	38.9
2025	5	10.0	--	--	10.0	5.9	15.9
2026	--	--	--	--	--	5.8	5.8
2027	--	--	--	--	--	5.7	5.7
Subtotal	324	566.7	--	3.2	569.9	158.2	728.1

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		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	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	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 classified by the country.

IDECM Block 4

Country	Date of Sale	Quantity	Total Cost \$M	Description
Australia	2/8/2018		59.9	Australia procured IDECM Block 4 (ALQ-214) systems and spares as part of the Australian Super Hornet procurement, per Line 20, Basic Case AT-P-GQT.
Australia	9/27/2017		9.0	Australia procured IDECM Block 4 (ALQ-214) systems and spares as part of the Australian Super Hornet procurement, per Line 20, Basic Case AT-P-GQT.

Notes

Australian quantities are considered classified by the country.

Nuclear Costs

IDECM Blocks 2/3

None

IDECM Block 4

None

Unit Cost

IDECM Blocks 2/3

Current UCR Baseline and Current Estimate (Base-Year Dollars)			
Item	BY 2008 \$M	BY 2008 \$M	% Change
	Current UCR Baseline (Apr 2012 APB)	Current Estimate (Dec 2017 SAR)	
Program Acquisition Unit Cost			
Cost	1493.9	1068.2	
Quantity	12805	3930	
Unit Cost	0.117	0.272	+132.48 ¹
Average Procurement Unit Cost			
Cost	1037.5	611.8	
Quantity	12805	3930	
Unit Cost	0.081	0.156	+92.59 ¹
Original UCR Baseline and Current Estimate (Base-Year Dollars)			
Item	BY 2008 \$M	BY 2008 \$M	% Change
	Original UCR Baseline (Jun 2008 APB)	Current Estimate (Dec 2017 SAR)	
Program Acquisition Unit Cost			
Cost	1410.9	1068.2	
Quantity	12809	3930	
Unit Cost	0.110	0.272	+147.27 ¹
Average Procurement Unit Cost			
Cost	956.0	611.8	
Quantity	12809	3930	
Unit Cost	0.075	0.156	+108.00 ¹
Current UCR Baseline and Current Estimate (Then-Year Dollars)			
Item	TY \$M		TY % Change
	Current UCR Baseline (Apr 2012 APB)	Current Estimate (Dec 2017 SAR)	
Program Acquisition Unit Cost (PAUC)			
Cost	1667.4	1034.4	
Unit Cost	0.130	0.263	+102.31
Average Procurement Unit Cost (APUC)			
Cost	1276.4	643.4	
Unit Cost	0.100	0.164	+64.00

Original UCR Baseline and Current Estimate (Then-Year Dollars)			
Item	TY \$M		TY % Change
	Original UCR Baseline (Jun 2008 APB)	Current Estimate (Dec 2017 SAR)	
Program Acquisition Unit Cost (PAUC)			
Cost	1535.2	1034.4	
Unit Cost	0.120	0.263	+119.17
Average Procurement Unit Cost (APUC)			
Cost	1144.2	643.4	
Unit Cost	0.089	0.164	+84.27

¹ Nunn-McCurdy Breach

Unit Cost Breach Data		
Changes From Previous SAR	\$M/Qty.	Percent
PAUC (BY \$M)	0.146	+115.87
APUC (BY \$M)	0.066	+73.33
PAUC Quantity	-8875	0.00
PAUC (TY \$M)	0.109	+70.78
APUC (TY \$M)	0.041	+33.33

Initial SAR Information		
Initial SAR Information - Jun 2008	BY2008 \$M	TY \$M
Program Acquisition Cost	1410.9	1535.2

Unit Cost PAUC Changes

PAUC increased due to a reduction in total planned quantities and the associated funding.

Unit Cost APUC Changes

APUC increased due to a reduction in total planned quantities and the associated funding.

Impact of Performance or Schedule Changes

Not applicable. There are no program performance or schedule changes as part of this Nunn McCurdy.

Program Management or Control

IDECM Block 2/3 ALQ-214(V)3s are 100% expended and 100% delivered. Unit cost for the ALE-55 is stable and is not a contributing factor for this Nunn McCurdy.

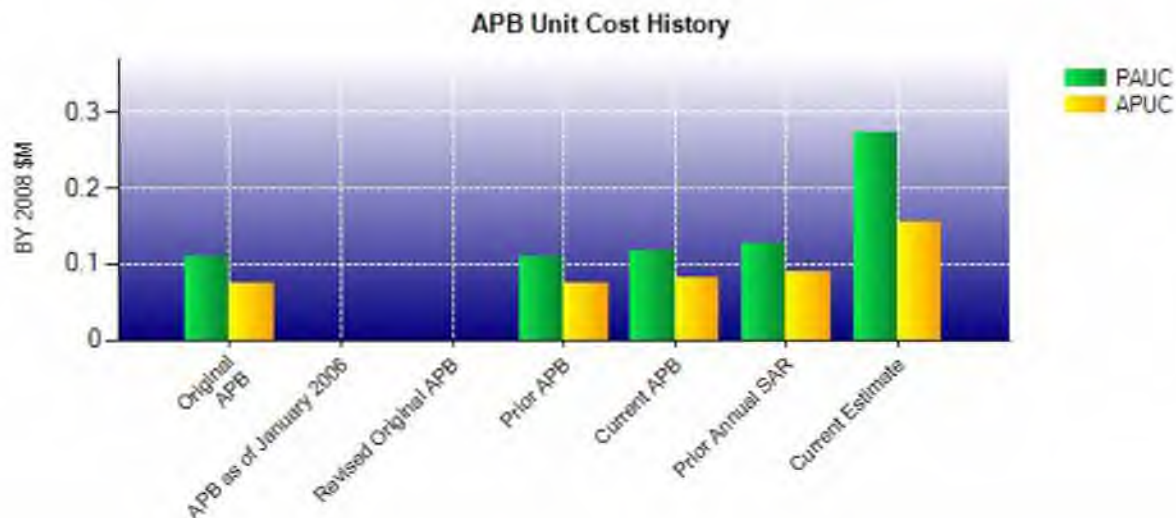
Cost Control Actions

Not applicable. IDECM Block 2/3 ALQ-214(V)3s are 100% expended and 100% delivered. ALE-55 unit cost was not a contributing factor for this Nunn McCurdy.

Nunn-McCurdy Comments

IDECM Block 2/3 reported deviations in the December 2015 and 2016 Selected Acquisition Report (SARs) for procurement costs as a result of funding/budget reductions which stretched out the program duration. In the December 2016 SAR, the IDECM program office recommended managing the expendable requirements through the Naval Munitions Requirements Process (which aligns with Department of Defense Instruction (DoDI) 3000.04) along with all other countermeasure expendables in the Department of Navy (DoN) Inventory. In August 2017, the Navy supported the recommendation, via an Acquisition Decision Memorandum, which directed PMA-272 to manage the ALE-55 expendable Fiber Optic Towed Decoy solely through the NMRP.

The 2019 President's Budget includes the requirement for a Dual Band Decoy (DBD) to counter future threats and is funded (RDT&E in FY2019 and Procurement (PANMC) in FY2022). DBD will not be part of IDECM Block 2/3 or Block 4 subprograms. In the process of aligning/planning the FYDP funding, DBD is planning for production readiness in FY2022. As a result of DBD planning/funding, the quantity projections for ALE-55 are drastically reduced and create a critical Nunn-McCurdy breach against both the original and current baseline of IDECM Block 2/3. This breach is due solely to reducing the quantity of ALE-55 by 69%.



APB 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 2016	0.117	0.081	0.130	0.100
Prior Annual SAR	Dec 2016	0.126	0.090	0.154	0.123
Current Estimate	Dec 2017	0.272	0.156	0.263	0.164

SAR Unit Cost History

Current SAR Baseline to Current Estimate (TY \$M)									
PAUC Production Estimate	Changes								PAUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.120	-0.004	0.082	0.046	0.000	0.021	0.000	-0.002	0.143	0.263

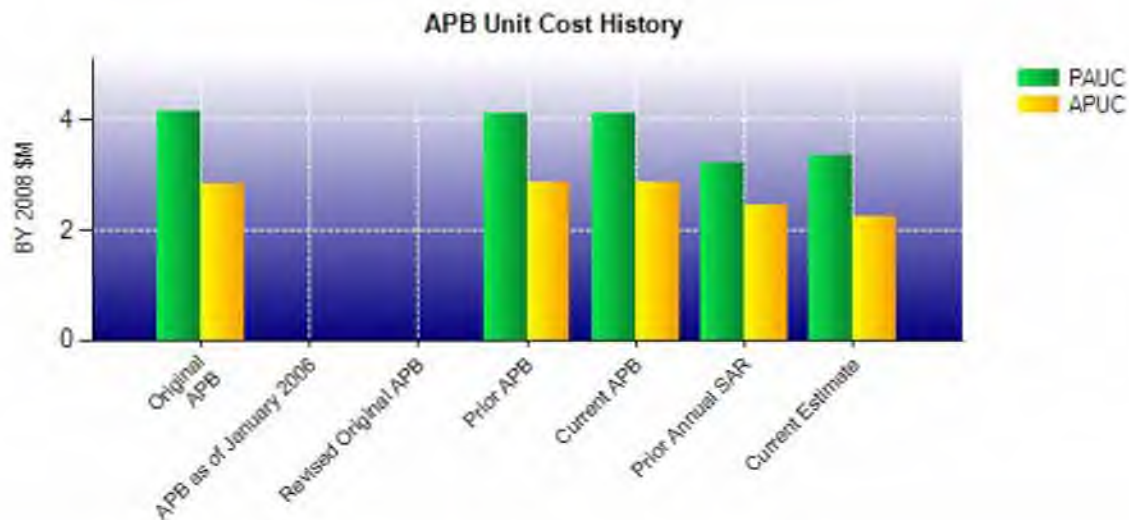
Current SAR Baseline to Current Estimate (TY \$M)									
Initial APUC Production Estimate	Changes								APUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.089	-0.003	0.013	0.046	0.000	0.021	0.000	-0.002	0.075	0.164

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	1034.4
Total Quantity	N/A	N/A	12809	3930
PAUC	N/A	N/A	0.120	0.263

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

IDECM Block 4

Current UCR Baseline and Current Estimate (Base-Year Dollars)			
Item	BY 2008 \$M	BY 2008 \$M	% Change
	Current UCR Baseline (Feb 2018 APB)	Current Estimate (Dec 2017 SAR)	
Program Acquisition Unit Cost			
Cost	1035.2	1082.1	
Quantity	324	324	
Unit Cost	3.195	3.340	+4.54
Average Procurement Unit Cost			
Cost	795.1	728.1	
Quantity	324	324	
Unit Cost	2.454	2.247	-8.44
Original UCR Baseline and Current Estimate (Base-Year Dollars)			
Item	BY 2008 \$M	BY 2008 \$M	% Change
	Original UCR Baseline (Jun 2008 APB)	Current Estimate (Dec 2017 SAR)	
Program Acquisition Unit Cost			
Cost	660.7	1082.1	
Quantity	160	324	
Unit Cost	4.129	3.340	-19.11
Average Procurement Unit Cost			
Cost	451.2	728.1	
Quantity	160	324	
Unit Cost	2.820	2.247	-20.32



APB 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	Feb 2014	4.114	2.852	4.543	3.206
Current APB	Feb 2016	4.114	2.852	4.543	3.206
Prior Annual SAR	Dec 2016	3.195	2.454	3.805	3.010
Current Estimate	Dec 2017	3.340	2.247	3.934	2.687

SAR Unit Cost History

Current SAR Baseline to Current Estimate (TY \$M)									
PAUC Development Estimate	Changes								PAUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
4.663	-0.069	-1.667	0.652	0.195	-0.107	0.000	0.267	-0.729	3.934

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	-0.060	-0.958	0.652	0.000	-0.476	0.000	0.267	-0.575	2.687

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	1274.7
Total Quantity	N/A	160	N/A	324
PAUC	N/A	4.663	N/A	3.934

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	-5.0	--	-6.3
Quantity	--	-11.2	--	-11.2
Schedule	--	+280.5	--	+280.5
Engineering	--	--	--	--
Estimating	+1.3	+120.7	--	+122.0
Other	--	--	--	--
Support	--	+51.7	--	+51.7
Subtotal	--	+436.7	--	+436.7
Current Changes				
Economic	--	-8.6	--	-8.6
Quantity	--	-732.6	--	-732.6
Schedule	--	-98.1	--	-98.1
Engineering	--	--	--	--
Estimating	--	-38.7	--	-38.7
Other	--	--	--	--
Support	--	-59.5	--	-59.5
Subtotal	--	-937.5	--	-937.5
Total Changes	--	-500.8	--	-500.8
CE - Cost Variance	391.0	643.4	--	1034.4
CE - Cost & Funding	391.0	643.4	--	1034.4

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	--	+92.4	--	+92.4
Engineering	--	--	--	--
Estimating	+1.5	+76.7	--	+78.2
Other	--	--	--	--
Support	--	+36.7	--	+36.7
Subtotal	+1.5	+195.3	--	+196.8
Current Changes				
Economic	--	--	--	--
Quantity	--	-424.6	--	-424.6
Schedule	--	-57.6	--	-57.6
Engineering	--	--	--	--
Estimating	--	-22.4	--	-22.4
Other	--	--	--	--
Support	--	-34.9	--	-34.9
Subtotal	--	-539.5	--	-539.5
Total Changes	+1.5	-344.2	--	-342.7
CE - Cost Variance	456.4	611.8	--	1068.2
CE - Cost & Funding	456.4	611.8	--	1068.2

Previous Estimate: December 2016

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-8.6
Total Quantity variance resulting from a decrease of 8,875 ALE-55(V) Fiber Optic Towed Decoys from 12,720 to 3,845 (Navy). (Subtotal)	-452.4	-761.9
Quantity variance resulting from a decrease of 8,875 ALE-55(V) from 12,720 to 3,845 (Navy). (Quantity)	(-370.1)	(-621.7)
Allocation to Schedule resulting from Quantity change. (Schedule) (QR)	(-57.6)	(-98.1)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(-24.7)	(-42.1)
Additional Quantity variance resulting from a decrease of 8,875 ALE-55(V) from 12,720 to 3,845 (Navy) (Quantity)	-54.5	-110.9
Adjustment for current and prior escalation. (Estimating)	+0.3	+0.4
Revised estimate to reflect actuals. (Estimating)	+2.0	+3.0
Adjustment for current and prior escalation. (Support)	+0.1	0.0
Decrease in Other Support to reflect revised estimate based on program end date acceleration from FY 2049 to FY 2021. (Support)	-35.0	-59.5
Procurement Subtotal	-539.5	-937.5

(QR) Quantity Related

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	-2.7	-15.9	--	-18.6
Quantity	--	+224.4	--	+224.4
Schedule	--	+223.2	--	+223.2
Engineering	+63.3	--	--	+63.3
Estimating	-27.1	-43.1	--	-70.2
Other	--	--	--	--
Support	--	+64.7	--	+64.7
Subtotal	+33.5	+453.3	--	+486.8
Current Changes				
Economic	--	-3.6	--	-3.6
Quantity	--	--	--	--
Schedule	--	-11.9	--	-11.9
Engineering	--	--	--	--
Estimating	+146.4	-111.0	--	+35.4
Other	--	--	--	--
Support	--	+21.9	--	+21.9
Subtotal	+146.4	-104.6	--	+41.8
Total Changes	+179.9	+348.7	--	+528.6
CE - Cost Variance	404.1	870.6	--	1274.7
CE - Cost & Funding	404.1	870.6	--	1274.7

Summary BY 2008 \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Development Estimate)	209.5	451.2	--	660.7
Previous Changes				
Economic	--	--	--	--
Quantity	--	+167.6	--	+167.6
Schedule	--	+165.7	--	+165.7
Engineering	+57.9	--	--	+57.9
Estimating	-27.3	-32.9	--	-60.2
Other	--	--	--	--
Support	--	+43.5	--	+43.5
Subtotal	+30.6	+343.9	--	+374.5
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	+113.9	-87.8	--	+26.1
Other	--	--	--	--
Support	--	+20.8	--	+20.8
Subtotal	+113.9	-67.0	--	+46.9
Total Changes	+144.5	+276.9	--	+421.4
CE - Cost Variance	354.0	728.1	--	1082.1
CE - Cost & Funding	354.0	728.1	--	1082.1

Previous Estimate: December 2016

RDT&E	\$M	
Current Change Explanations	Base Year	Then Year
Revised estimate to reflect actuals. (Estimating)	+0.7	+0.9
Additional funding for Adaptive Radar Countermeasures (ARC). (Estimating)	+113.2	+145.5
RDT&E Subtotal	+113.9	+146.4

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-3.6
Acceleration of procurement buy profile for ALQ-214(V)4/5s from FY 2027 to FY 2025. (Schedule)	0.0	-11.9
Adjustment for current and prior escalation. (Estimating)	+0.6	+0.7
Revised Estimate to reflect actual cost data from ALQ-214(V)4/5 full rate production lot 10 and lot 11 (FY 2013 and FY 2014). (Estimating)	-88.4	-111.7
Adjustment for current and prior escalation. (Support)	+0.1	0.0
Decrease in Other Support to reflect revised Government in-house support due the end of program acceleration from FY 2029 to FY2027. (Support)	-9.6	-14.8
Increase in Initial Spares to reflect actuals. (Support)	+30.3	+36.7
Procurement Subtotal	-67.0	-104.6

Contracts

Contract Identification

Appropriation: Procurement
Contract Name: IDECM Block 3 (ALE-55 FOTD) FRP 6, 7 & 8
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	63.6	N/A	847	63.6	63.6

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 7 and FRP 8.

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 & 13
Contractor: Harris Corporation
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	187.9	188.3	94	187.9	187.9

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 13.

Cost and Schedule Variance Explanations

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

General Contract Variance Explanation

Cost and schedule variances are not reported for this contract, because an earned value management waiver was granted by the Deputy Assistant Secretary of the Navy for Acquisition and Procurement (DASN (AP)) on July 23, 2015 due to the prime contractor successfully producing 11 Full Rate Production lots and delivered the ALQ-214 on or ahead of schedule.

Contract Identification

Appropriation: Procurement
Contract Name: IDECM Block 4 (ALQ-214) FRP 14 & 15
Contractor: Harris Corporation
Contractor Location: 77 River Road
 Clifton, NJ 07014
Contract Number: N00019-17-C-0090
Contract Type: Firm Fixed Price (FFP)
Award Date: September 27, 2017
Definitization Date: September 27, 2017

Contract Price

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
133.2	N/A	72	299.5	N/A	158	299.5	299.5

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 15.

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.

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	2524	2524	3930	64.22%
Total Program Quantity Delivered	2524	2524	3930	64.22%

Expended and Appropriated (TY \$M)

Total Acquisition Cost	1034.4	Years Appropriated	24
Expended to Date	885.7	Percent Years Appropriated	88.89%
Percent Expended	85.62%	Appropriated to Date	961.9
Total Funding Years	27	Percent Appropriated	92.99%

The above data is current as of February 12, 2018.

Deliveries reflect 85 ALQ-214s and 2,524 ALE-55 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	119	119	324	36.73%
Total Program Quantity Delivered	119	119	324	36.73%

Expended and Appropriated (TY \$M)

Total Acquisition Cost	1274.7	Years Appropriated	11
Expended to Date	628.2	Percent Years Appropriated	55.00%
Percent Expended	49.28%	Appropriated to Date	779.2
Total Funding Years	20	Percent Appropriated	61.13%

The above data is current as of February 12, 2018.

Expenditures reflect IDECM Block 4 RDT&E and Aircraft Procurement, Navy (APN-5).

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)2/3 (quantity 85 ALQ-214(V)2/3 systems)

The ALE-55(V) is an expendable. The 3,845 ALE-55(V) Fiber Optic Towed Decoys are not included in the quantity of systems to sustain.

Flight Hours per aircraft per month: 30

Number of Operating System Years: 1,700

Total Life Cycle Flight Hours: 306,000

Sustainment Strategy

The maintenance concept for the ALQ-214(V)2/3 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 (MaPI) for IDECM Blocks 2/3 is currently available to support the logistics program. The MaPIs are updated as necessary to reflect configuration changes. IDECM Blocks 2/3 MaPI 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 MaPIs for the ALQ-214(V)2/3 and ALE-55(V).

Antecedent Information

- Antecedent program: Aircraft Self Protection Jammer (ASPJ)
- # of Aircraft Operating Years: 1,700 (Not actual, but used in order to provide a comparison between the ALQ-214(V) 2/3 Suite and its antecedent system)

The Antecedent Average Annual Cost per System is derived from total cost from Naval Visibility and Management of Operating and Support Costs (VAMOSC) database Naval Aviation Maintenance Subsystem Report (NAMSAR) divided by the total number of systems in NAMSAR. This value is then multiplied by the total number of operating system years associated with the ALQ-214(V)2/3 Suite to provide a point of comparison.

Annual O&S Costs BY2008 \$M			
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	0.101		0.092
Sustaining Support	0.011		0.008
Continuing System Improvements	0.021		0.008
Indirect Support	0.000		0.000
Other	0.000		0.000
Total	0.133		0.108

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	183.4
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)2/3 Suite is calculated by dividing the Total O&S Cost by the Total Operational System Years for the program.

ALQ-214(V)2/3 Total O&S Cost = ALQ-214(V)2/3 Annual O&S Cost per System * Total Operating System Years
 \$226.3M Total O&S Cost = \$133.1K / System / Year * 1,700 Operating Years

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

2016 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 0.700 BY 2008 \$M and 1.059 TY \$M.

IDECM Block 4**Cost Estimate Details**

Date of Estimate:	February 28, 2017
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 2045

System - ALQ-214(V)4/5
 Flight Hours per aircraft per month: 30
 Number of Operating System Years: 6,480
 Total Life Cycle Flight Hours: 1,166,400

Sustainment Strategy

The IDECM Block 4 (IB-4), ALQ-214(V)4/5, is an Engineering Change Proposal to the ALQ-214(V)2/3 and as such will follow the same sustainment strategy and infrastructure established for the fielded ALQ-214(V)2/3.

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 WRAs identified by 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 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 DAPML. The DAPML will assess the issue and request support from the FST and/or OEM.

Depot Level activities will include: removal and replacement of faulty modules/parts to the component or 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 PBIT and 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 MaPI for IB-4 is currently available to support the logistics program. The MaPIs will be updated as necessary to reflect configuration changes. IB-4 MaPI 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 MaPI management will transition to the FST at Fleet Readiness Center-Southeast, In-Service Support Center, Jacksonville, Florida.

Antecedent Information

- Antecedent program: ASPJ
- # of Aircraft Operating Years: 6,480 (Not actual, but used in order to provide a comparison between the ALQ-214(V) 4 /5 Suite and its antecedent system)

The Antecedent Average Annual Cost per System is derived from total cost from Naval VAMOSC database NAMSAR divided by the total number of systems in NAMSAR. This value is then multiplied by the total number of operating system years associated with ALQ-214(V)4/5 Suite to provide a point of comparison.

Annual O&S Costs BY2008 \$M			
Cost Element	IDECM Block 4 Average Annual Cost Per System		ASPJ (Antecedent) Average Annual Cost Per ASPJ
Unit-Level Manpower	0.000		0.000
Unit Operations	0.000		0.000
Maintenance	0.067		0.092
Sustaining Support	0.002		0.008
Continuing System Improvements	0.010		0.008
Indirect Support	0.000		0.000
Other	0.000		0.000
Total	0.079		0.108

Item	Total O&S Cost \$M			
	IDECM Block 4			ASPJ (Antecedent)
	Current Production APB Objective/Threshold	Current Estimate		
Base Year	509.1	560.0	509.1	699.0
Then Year	746.2	N/A	746.2	N/A

Equation to Translate Annual Cost to Total Cost

The Average Annual Cost Per Aircraft for the ALQ-214(V)4/5 Suite is calculated by dividing the Total O&S Cost by the Total Operational System Years for the program.

ALQ-214(V)4/5 Total O&S Cost = ALQ-214(V)4/5 Annual O&S Cost per System * Total Operating System Years
 \$509.1 Total O&S Cost = \$78.6K / System / Year * 6,480 Operating Years

O&S Cost Variance		
Category	BY 2008 \$M	Change Explanations
Prior SAR Total O&S Estimates - Dec 2016 SAR	509.1	
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	509.1

Disposal Estimate Details

Date of Estimate: February 28, 2017
Source of Estimate: POE
Disposal/Demilitarization Total Cost (BY 2008 \$M): Total costs for disposal of all System are 2.6

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 2.600 BY 2008 \$M and 4.641 TY \$M.