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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>				PE 0604270N: <i>Electronic Warfare (EW) Dev</i>							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	78.147	95.018	51.304	-	51.304	35.988	35.729	24.505	25.048	Continuing	Continuing
0556: <i>EW Counter Response</i>	24.075	20.222	19.728	-	19.728	19.931	20.280	20.252	20.632	Continuing	Continuing
1742: <i>EW Technical Development and T&E</i>	4.719	1.784	1.702	-	1.702	1.649	1.552	1.542	1.568	Continuing	Continuing
2175: <i>Tactical Air Electronic Warfare</i>	49.353	62.100	29.874	-	29.874	14.408	13.897	2.711	2.848	Continuing	Continuing
3327: <i>MAGTF EW Aviation Development</i>	-	10.912	-	-	-	-	-	-	-	0.000	10.912

A. Mission Description and Budget Item Justification

This program element includes development of Electronic Warfare (EW) systems for the United States Navy (USN), United States Marine Corps (USMC), and United States Army tactical aircraft, USMC helicopters, surface combatants, data link vulnerability assessments, precision targeting, USN and USMC radio frequency jammers, and development and testing of electronic warfare devices for emerging threats and emergency contingencies.

B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	80.819	89.418	52.963	-	52.963
Current President's Budget	78.147	95.018	51.304	-	51.304
Total Adjustments	-2.672	5.600	-1.659	-	-1.659
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.400	-			
• SBIR/STTR Transfer	-1.861	-			
• Program Adjustments	-	5.600	-1.688	-	-1.688
• Rate/Misc Adjustments	-	-	0.029	-	0.029
• Congressional General Reductions Adjustments	-0.411	-	-	-	-

Change Summary Explanation

Technical:

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Project Unit 0556 / EW COUNTER RESPONSE: Not Applicable Project Unit 1742 / EW TECHNICAL DEVELOPMENT & T&E: Not Applicable Project Unit 2175 / TACTICAL AIR ELECTRONIC WARFARE (EW): Not Applicable Project Unit 3327 / Marine Air Ground Task Force (MAGTF) EW AVIATION DEVELOPMENT: FY13 and future funding moved to new PE 0604376M PU 3327. Schedule: Project Unit 0556 / EW COUNTER RESPONSE: Problems encountered during Improved Capability III Block 5 Developmental Testing delayed completion until 4th QTR 2012 delaying subsequent Block Developments. Project Unit 1742 / EW TECHNICAL DEVELOPMENT & T&E: Not Applicable Project E2175 / TACTICAL AIR EW: Integrated Defensive Electronic Countermeasure Block 2 (IB-2): Not Applicable. IDECM Block 3 (IB-3): The IB-3 Full Rate Production (FRP) 2 contract award has been changed to reflect the revised date of 3rd Qtr FY 2012. IDECM Block 4 (IB-4): The IB-4 In-Process Review 3 has been changed to 2nd Qtr FY 2012. The IB-4 FRP 9 quantities have been changed from 19 to 7 due to FY 2012 APN-5 budget mark. ALQ-214 Software Improvement: The ALQ-214 Software Improvement contract award and the start of development have been changed to 2nd Qtr FY 2012. Project Unit 3327 / MAGTF EW AVIATION DEVELOPMENT: Not Applicable.		

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev				PROJECT 0556: EW Counter Response			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
0556: EW Counter Response	24.075	20.222	19.728	-	19.728	19.931	20.280	20.252	20.632	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This project develops upgrades to combat the increasingly complex and dense Electronic Warfare (EW) threat environment. Required improvements in Airborne Electronic Attack (AEA) will achieve application of state-of-the-art signal exploitation, processing, display techniques, improved tactics, and jamming capabilities against EW threats.

Efforts include continued development of Force Protection/Overseas Contingency Operations (classified discussion available upon request) Navigation and Information Operations applications and enhanced communications jamming. The efforts under this project provide for electronic countermeasure responses to advanced threat weapon systems and C3 networks that are expanding in density and technical complexity. This project funds the continued development and integration of all EW and Electronic Attack systems for the US Navy electronic attack aircraft including improvements within precision Direction of Arrival, geo-location, Specific Emitter Identification, Auto-Electronic Support Measures, and selective reactive jamming.

The EA-6B Improved Capability (ICAP) III test aircraft will continue to serve as a test platform during government test and evaluation of Multi Functional Information Distribution Systems/Link-16, Low Band Transmitter, and other EW improvements. A requirement exists to allow the EA-6B ICAP III to participate in various coordinated targeting scenarios such as Network Centric Warfare, Force Net, Improved Suppression of Enemy Air Defenses/Destruction of Enemy Air Defenses, and other strategic and theatre-based DOD networks and strategies. Likewise, the ICAP III system shall be matured to enable the fusion and correlation of both organic and non-organic threat information to improve present sensor and targeting information to the theatre commander via coordinated efforts between other airborne, ground and ship-based operations. A method of implementing this requirement is to include the EA-6B on the Link-16 EW Network. Incorporation of the Link-16 message set into the EA-6B and participation of the ICAP III within the Network Centric Warfare arena improves the Strike Group Commander's situational awareness. All efforts and system upgrades include the conversion of and transition from the Tactical EA-6B Mission Planning System to the Joint Mission Planning System, including development of EA-6B Unique Planning Modules.

Electronic Attack Jammer Techniques Optimization (JATO) and test support is required to address and counter new and evolving radar and communications threats in support of existing and emerging systems such as the EA-6B, EA-18G, and NGJ. JATO will continue to generate techniques, tactics, and procedures that will optimize the capabilities of existing weapon systems, and to assist in requirements definitions of emerging AEA systems.

The Airborne Electronic Attack Expendable provides an expanded war fighting capability, on an expendable host platform against EW threats including; Integrated Air Defenses, Command and Control Communications, and Datalinks through an open Electronic Attack Subsystem interface specification. This flexible system allows rapid technology insertion and threat set adaptability that will address AEA capability and sufficiency gaps.

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev	PROJECT 0556: EW Counter Response		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Title: ICAP III UPDATE Articles: FY 2011 Accomplishments: Continued the integration and enhancement of Link-16 and ALQ-218 capabilities into the Improved Capability (ICAP) III aircraft as well as resolving any Operational Evaluation (OPEVAL)/Verification of Correction of Follow-on Operational Test & Evaluation (FOT&E) related deficiencies. Efforts focused on fielding the improvements achieved in ICAP III Block 5 as well as begin the initial planning and development of ICAP III Block 6. FY 2012 Plans: Continue development, integration, and enhancement of Link-16 and ALQ-218 Capabilities into ICAP III Aircraft as well as resolving OPEVAL and FOT&E related deficiencies via ICAP III Block releases. FY 2013 Plans: Continue development, integration, and enhancement of Link-16 and ALQ-218 Capabilities into ICAP III Aircraft as well as resolving OPEVAL and FOT&E related deficiencies via ICAP III Block releases.		6.472 0	5.281 0	4.459 0
Title: MISSION PLANNING Articles: FY 2011 Accomplishments: Joint Mission Planning System (JMPS) and associated EA-6B Unique Planning Component's (UPC's) support ICAP III Block upgrades. Continued development of the JMPS components in direct support of the ICAP III system. Mission Planning Environment framework continues development required to counter Microsoft Operating System obsolescence. FY 2012 Plans: Continue development of all elements of the mission planning environment including UPC's, EA-6B Tactical Information & Report Management System and Electronic Warfare Development System. Mission Planning Environment will continue development of an upgrade operating framework and transition from a Windows XP platform to a Windows 7 platform. New framework required to counter Microsoft Operating System obsolescence. FY 2013 Plans: Continue development of all elements of the mission planning environment including UPC's, EA-6B Tactical Information & Report Management System and Electronic Warfare Development System. Mission Planning Environment will continue development of an upgrade operating framework and transition from a Windows XP platform to a Windows 7 platform. New framework required to counter Microsoft Operating System obsolescence.		3.989 0	3.220 0	2.350 0
Title: LINK 16 MESSAGE SETS AND DATA LINKS		1.041	0.953	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Articles: FY 2011 Accomplishments: Continued development and testing of the Link-16 modification. These data link enhancements enable the EA-6B Improved Capability (ICAP) III continued participation within Force Net and facilitate the Electronic Attack (EA) contributions to the greater situational awareness allowed by Network Centric Warfare efforts. FY 2012 Plans: Continue development and testing of the Link-16 modification. These data link enhancements will enable the EA-6B ICAP III continued participation within Force Net and facilitate the EA contributions to the greater situational awareness allowed by Network Centric Warfare efforts. *Beginning in FY13, LINK 16 Message Sets and Data Links will be funded under Program Element 0604376M Project Unit 3327, MAGTF EW Aviation Development, as EA-6B Multifunctional Information Distribution Systems Block Upgrade.		0	0	
Title: JAMMER TECHNIQUES OPTIMIZATION (JATO) Articles: FY 2011 Accomplishments: Performed engineering development and test support required to address and counter new and evolving radar and communications threats in support of existing and emerging systems such as the EA-6B, EA-18G and Next Generation Jammer (NGJ). JATO continued to generate techniques, tactics, and procedures to optimize the capabilities of ALQ-99, ALQ-218, ALQ-227, ALQ-231, ALE-43 and Airborne Electronic Attack Expendable (AEAE) systems, and assisted in requirements definitions of emerging Airborne Electronic Attack (AEA) systems. JATO led efforts in support of Overseas Contingency Operation (OCO) and Force Protection issues. (Classified discussion available upon request.) FY 2012 Plans: Continue engineering development and test support required to address and counter new and evolving radar and communications threats in support of existing and emerging systems such as the EA-6B, EA-18G, and NGJ. JATO will continue to generate techniques, tactics, and procedures to optimize the capabilities of ALQ-99, ALQ-218, ALQ-227, ALQ-231, ALE-43 and AEAE systems, and to assist in requirements definitions of emerging AEA systems. JATO continues to lead efforts in support of OCO and Force Protection issues. (Classified discussion available upon request.) FY 2013 Plans: Provide engineering development and test support required to address new and evolving radar/communications threats in support of existing and emerging systems such as the EA-6B, EA-18G, and Next Generation Jammer. Jammer Techniques Optimization (JATO) will continue to generate techniques, tactics, and procedures to optimize the capabilities of ALQ-99,		9.965 0	10.433 0	11.033 0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
USQ-113, ALQ-218, ALQ-227, ALQ-231, ALE-43, and Airborne Electronic Attack Expendable (AEAE) systems, and to assist in requirements definitions of emerging Airborne Electronic Attack (AEA) systems. JATO continues to lead efforts in support of Overseas Contingency Operation and Force Protection issues. (Classified discussion available upon request.)				
Title: Intrepid Tiger II (ALQ-231) Articles: FY 2011 Accomplishments: The ALQ-231 program conducted combined Developmental Testing/Operational Testing on Lot 1 deliveries. Conducted further risk reduction for a sustainable AEA solution. *Beginning in FY12, Intrepid Tiger II (ALQ-231) will be funded under PE 0604270N, PU 3327, Marine Air Ground Task Force Electronic Warfare Aviation Development. Beginning in FY13, Intrepid Tiger II (ALQ-231) will be funded under PE 0604376M, PU 3327, MAGTF EW for Aviation.		0.436 0	-	-
Title: AEAE Articles: FY 2011 Accomplishments: AEA payload/ITALD A-Kit and B-kit designs completed and payload captive carry flights demonstrated system level operation and effectiveness. Mission planning tools completed with Concept of Operations (CONOP) development supporting Techniques, Tactics and Procedures maturation. Engineering Change Proposals and logistics support including Maintenance and Operation publications ongoing. Engineering Development Model assets built to support ground and initial F-18 flight testing. Systems Engineering reviews conducted through the Flight Test Readiness Review. AEA Payload optimized for additional form factors and levels of integration. Risk Reduction for a long term, sustainable AEA solution conducted to include analysis, prototype and test for F/A-18 E/F carriage of the AEA payload in an AEAE and other form factors to include networked connectivity and additional operational capabilities. FY 2012 Plans: The AEAE project will continue risk reduction efforts including scope development, CONOP refinement, engineering analysis, and data gathering on the ADM-160 Miniature Air Launched Decoy for F/A-18 E/F carriage. Threat analysis and capability improvements for the Electronic Attack System payload and threat effectiveness review will address Area of Regard defined threat sets utilizing fleet operator inputs. Will conduct training, planning, supportability, and maintenance concept refinement. FY 2013 Plans: Develop Instrumented Measurement Vehicles for carrier suitability and airborne flight test and evaluation. Characterize vibration and shock forces associated with F/A-18EF carrier catapult take-offs and arrested landings. Develop accurate mathematical		2.172 0	0.335 0	1.886 0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2011	FY 2012	FY 2013
models for wind tunnel simulation and test. Perform wind tunnel safe-separation and transition-to-flight tests for vehicle risk analysis and risk mitigation. Develop F/A-18EF Airborne Electronic Attack Expendable (AEAE) Unique Planning Component for integration into the F/A-18EF Joint Mission Planning System Mission Planning Environment and H12 Software Configuration Set. Develop and evaluate Electronic Warfare payloads for integration into AEAE platform. Integrate standard payload interface into the vehicle baseline and develop documentation in support of the Joint Capabilities Integration and Development System process to include a Capabilities Development Document.											
Accomplishments/Planned Programs Subtotals									24.075	20.222	19.728
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• APN/05110: EA-6 Series	12.634	27.734	30.062	0.000	30.062	18.600	14.099	10.068	10.285	Continuing	Continuing
• APN/05130: AEA Systems	29.601	77.365	49.999	0.000	49.999	48.878	59.692	43.688	41.870	Continuing	Continuing
D. Acquisition Strategy											
The Improved Capability (ICAP) III contract, an Engineering Manufacturing Development Cost Plus Incentive Fee/Award Fee basic contract with two Fixed Price Incentive production options, was awarded to a Northrop Grumman team in March 1998 following Milestone II after full and open competition. The contract was changed to a Cost Plus Award Fee contract in FY 1999. Low Rate Initial Production contract award was completed in FY 2003. A Milestone III Navy Program Decision Meeting was held on 23 September 2005. The Acquisition Decision Memorandum was signed by Assistant Secretary of the Navy for Research Development Acquisition on 21 November 2005. A Firm Fixed Price Full Rate Production (FRP) contract for Lot 2, 4 ALQ-218 systems, was awarded in March 2006. The FRP Lot 3 contract for 7 ALQ-218 systems was awarded 11 April 2008. The FRP Lot 4 contract for 9 ALQ-218 systems was awarded in August 2008.											
E. Performance Metrics											
1. Successful completion of ICAP III Block 4 development and testing.											
2. Continued development of ICAP III Block 5 sufficient to conduct a successful development test.											
3. Jammer Techniques Optimization development counters enemy radar systems and communication systems to provide techniques to protect allied forces.											
4. AEAE continues risk reduction and system development.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev				PROJECT 0556: EW Counter Response					
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary HDW Develop - ICAP III	C/FFP	Various:Various	260.171	0.533	Dec 2011	0.500	Dec 2012	-		0.500	Continuing	Continuing	Continuing
Studies & Analysis (Non FFRDC)	C/FFP	Various:Various	1.043	-		-		-		-	Continuing	Continuing	Continuing
Systems Engineering NR	WR	Naval Research Lab:Maryland	4.333	0.446	Dec 2011	0.409	Dec 2012	-		0.409	Continuing	Continuing	Continuing
Systems Engineering NAWCAD	WR	NAWCAD:Patuxent River, MD	17.729	2.294	Nov 2011	2.443	Nov 2012	-		2.443	Continuing	Continuing	Continuing
Systems Eng/BLK Update	WR	NAWCWD:Point Mugu, CA	53.770	5.921	Nov 2011	6.126	Nov 2012	-		6.126	Continuing	Continuing	Continuing
Systems Engineering NSWC	WR	NSWC Det:Crane, IN	8.258	0.755	Dec 2011	0.718	Dec 2012	-		0.718	Continuing	Continuing	Continuing
Systems Engineering VAR	WR	Various:Various	12.775	1.112	Dec 2011	1.075	Dec 2012	-		1.075	Continuing	Continuing	Continuing
Subtotal			358.079	11.061		11.271		-		11.271			
Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support - JATO	SS/FP	Johns Hopkins Univ:Maryland	20.642	4.035	Dec 2011	3.993	Dec 2012	-		3.993	Continuing	Continuing	Continuing
Eng & Tech Srvs (Non FFRDC)	Various	Various:Various	8.672	4.567	Dec 2011	3.979	Dec 2012	-		3.979	Continuing	Continuing	Continuing
DFCS Installs	Various	Various:Various	0.559	-		-		-		-	Continuing	Continuing	Continuing
ILS Pubs - ICAP III	WR	FRC:Jacksonville, FL	1.273	0.424	Dec 2011	0.387	Dec 2012	-		0.387	Continuing	Continuing	Continuing
Subtotal			31.146	9.026		8.359		-		8.359			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy											DATE: February 2012		
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Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	WR	Various:Various	0.772	0.135	Dec 2011	0.098	Dec 2012	-		0.098	Continuing	Continuing	Continuing
Subtotal			0.772	0.135		0.098		-		0.098			

	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	389.997	20.222		19.728		-		19.728			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>	PROJECT 0556: <i>EW Counter Response</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>	PROJECT 0556: <i>EW Counter Response</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>EW Counter Response</i>				
Acquisition Milestones: Milestones: Fleet Release - ICAP III BLOCK 5	4	2012	4	2012
Acquisition Milestones: Milestones: Fleet Release - ICAP III BLOCK 6	2	2014	2	2014
Acquisition Milestones: Milestones: Fleet Release - ICAP III BLOCK 7	2	2015	2	2015
Systems Development: Reviews: JATO Executive Steering Committee 2011	3	2011	3	2011
Systems Development: Reviews: JATO Executive Steering Committee 2012	3	2012	3	2012
Systems Development: Reviews: JATO Executive Steering Committee 2013	3	2013	3	2013
Systems Development: Reviews: JATO Executive Steering Committee 2014	3	2014	3	2014
Systems Development: Reviews: JATO Executive Steering Committee 2015	3	2015	3	2015
Systems Development: Reviews: JATO Executive Steering Committee 2016	3	2016	3	2016
Systems Development: Reviews: JATO Executive Steering Committee 2017	3	2017	3	2017
Test & Evaluation: Operational Evaluation: ICAP III Block 6 DT/OT	1	2013	1	2014
Test & Evaluation: Operational Evaluation: ICAP III Block 7 DT/OT	2	2014	1	2015
Deliveries: ICAP III - Lot 4 FRP Deliveries (Qty 9)	2	2011	1	2012

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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
1742: EW Technical Development and T&E	4.719	1.784	1.702	-	1.702	1.649	1.552	1.542	1.568	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Project Unit 1742 EW Technical Development and Test and Evaluation (T&E) funds efforts that focus on the quick reaction prototyping of tactical information and electronic warfare systems. This program directly addresses various fleet requirements across multiple platforms (airborne, surface and subsurface), airborne and surface cryptologic operational requirements documents and the joint oversight council missions needs statement to research, assess, and develop information warfare and electronic warfare systems and capabilities. These systems/capabilities provide information dominance to friendly forces during conflict, which is necessary for successful mission accomplishment.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2011	FY 2012	FY 2013
Title: EW Technical Development and T&E Articles: FY 2011 Accomplishments: Completed airborne Information Warfare jammer development, test, and evaluation to include ancillary equipment, cabling, hardware, antennas and installation on prototype aircraft.	0.395 0	-	-
Title: EW Technical Development Studies & Analysis Articles: FY 2011 Accomplishments: Continued studies and vulnerability analysis on emerging/changing threats/targets for EW programs. FY 2012 Plans: Continue studies and vulnerability analysis on emerging/changing threats/targets for EW programs. FY 2013 Plans: Continue studies and vulnerability analysis on emerging/changing threats/targets for EW programs.	2.633 0	1.584 0	1.500 0
Title: EW Technical Development/Develop and Systems Integration Articles: FY 2011 Accomplishments:	1.181 0	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012
Completed development of EW capabilities in accordance with Fleet Forces Command and prioritized signals and networks that are first to be integrated into existing Maritime Cryptologic Systems for the 21st Century EW systems and deployed on air and surface platforms.			
Title: EW Technical Development/Program Management			
Articles:		0.510 0	0.200 0
FY 2011 Accomplishments: Continued funding necessary travel expenses and training to support the Research & Development projects.			
FY 2012 Plans: Continue funding necessary travel expenses and training to support the Research & Development projects.			
FY 2013 Plans: Continue funding necessary travel expenses and training to support the Research & Development projects.			
Accomplishments/Planned Programs Subtotals		4.719	1.784
C. Other Program Funding Summary (\$ in Millions) N/A			
D. Acquisition Strategy The Navy Cyber Warfare Development Group (NCWDG) (formerly known as the Navy Information Operations Command (NIOC) Suitland) is granted streamlined acquisition authority for the development of classified prototypes and special capabilities under the DASN(C4I).			
E. Performance Metrics The NCWDG serves as the Program Management Office of the EW Technical Development and Information Warfare (IW) program. As such, NCWDG is tasked as the Navy's principal technical agent to research, assess, and develop EW/IW capabilities.			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy											DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev				PROJECT 1742: EW Technical Development and T&E						
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Primary Hardware Development	C/CPFF	Classified:Various	3.604	-		-		-		-	Continuing	Continuing	Continuing	
Aircraft Integration	WR	NAWC CL:China Lake, CA	1.600	-		-		-		-	Continuing	Continuing	Continuing	
Subtotal			5.204	-		-		-		-				
Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Development Support	C/CPFF	Classified:Various	2.987	-	Oct 2011	-		-		-	Continuing	Continuing	Continuing	
Software Development	C/CPFF	Classified:Various	3.944	-	Oct 2011	-		-		-	Continuing	Continuing	Continuing	
Studies & Analyses	Various	Classified:Various	7.974	1.584	Nov 2011	1.500	Nov 2012	-		1.500	Continuing	Continuing	Continuing	
Subtotal			14.905	1.584		1.500		-		1.500				
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Developmental Test & Evaluation	WR	NRL:Washington, DC	2.890	-		-		-		-	Continuing	Continuing	Continuing	
Subtotal			2.890	-		-		-		-				
Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Program Management	Various	Classified:Various	0.905	0.085	Oct 2011	0.084	Oct 2012	-		0.084	Continuing	Continuing	Continuing	
Travel	WR	NCWDG:Washington DC	1.388	0.115	Oct 2011	0.118	Oct 2012	-		0.118	Continuing	Continuing	Continuing	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy											DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>				PROJECT 1742: <i>EW Technical Development and T&E</i>					

Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Acquisition Workforce Fund - 2009	Various	Various:Various	0.026	-		-		-		-	0.000	0.026	
Subtotal			2.319	0.200		0.202		-		0.202			

Remarks Provides for official travel and training in direct support of Research & Development projects.													
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	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	25.318	1.784		1.702		-		1.702			

Remarks											
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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>	PROJECT 1742: <i>EW Technical Development and T&E</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>	PROJECT 1742: <i>EW Technical Development and T&E</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 1742				
ELECTRONIC WARFARE: Fixed Site Delivery: Electronic Warfare: Fixed Site Delivery: Fixed Site Delivery #3	4	2011	4	2011
ELECTRONIC WARFARE: Countermeasure Test Date: Countermeasure Test Date: Countermeasure Delivery #3	4	2011	4	2011
ELECTRONIC WARFARE: Test Support (NRL): Test Support (NRL)	3	2011	3	2011
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: Vulnerability Analysis Discovery	1	2011	1	2011
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 2 2011	2	2011	2	2011
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 3 2011	3	2011	3	2011
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 4 2011	4	2011	4	2011
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 1 2012	1	2012	1	2012
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 2 2012	2	2012	2	2012
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 3 2012	3	2012	3	2012
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 4 2012	4	2012	4	2012
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 1 2013	1	2013	1	2013
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 2 2013	2	2013	2	2013
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 3 2013	3	2013	3	2013
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 4 2013	4	2013	4	2013
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 1 2014	1	2014	1	2014
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 2 2014	2	2014	2	2014
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 3 2014	3	2014	3	2014
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 4 2014	4	2014	4	2014

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev		PROJECT 1742: EW Technical Development and T&E
		Start		End
Events by Sub Project		Quarter	Year	Quarter Year
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 1 2015		1	2015	1 2015
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 2 2015		2	2015	2 2015
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 3 2015		3	2015	3 2015
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 4 2015		4	2015	4 2015
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 1 2016		1	2016	1 2016
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 2 2016		2	2016	2 2016
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 3 2016		3	2016	3 2016
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 4 2016		4	2016	4 2016
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 1 2017		1	2017	1 2017
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 2 2017		2	2017	2 2017
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 3 2017		3	2017	3 2017
ELECTRONIC WARFARE: Vulnerability Analysis Discovery: VAD 4 2017		4	2017	4 2017

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE				PROJECT			
1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				PE 0604270N: Electronic Warfare (EW) Dev				2175: Tactical Air Electronic Warfare			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
2175: Tactical Air Electronic Warfare	49.353	62.100	29.874	-	29.874	14.408	13.897	2.711	2.848	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Integrated Defensive Electronic Countermeasures (IDECM) Block 3 (IB-3) introduced the new Fiber Optic Towed Decoy (FOTD) capability to the IDECM Block 2 Electronic Warfare (EW) Suite as a replacement for the ALE-50 decoy. The FOTD, when integrated with the rest of the F/A-18E/F EW suite (i.e., ALQ-214, ALR-67(V)3, ALE-47 and ALE-50), the associated cockpit controls, displays and other avionics significantly improves the survivability of the host aircraft in a Radio Frequency threat environment. Initial Operational Test & Evaluation found IB-3 effective, not suitable. Verification of Correction to Deficiencies completed in 2nd Qtr FY2011. An IB-3 MS III (Full Rate Production Decision) was approved in the 4th Qtr FY2011.

IDECM Block 4 (IB-4) is an Engineering Change Proposal (ECP) to the ALQ-214 to render it suitable for operation on F/A-18C/D aircraft (replacing the ALQ-126B and significantly improving F/A-18C/D survivability) while retaining all IDECM suite functionality when installed on F/A-18E/F aircraft. The IB-4 acquisition and contract strategy includes development of the Common On-Board-Jammer for the F/A-18 C/D/E/F aircraft through sole source contract awards for modifications to the ALQ-214. IB-4, ALQ-214 ECP, efforts include hardware and software design, development and test, delivery of 18 Engineering Development Models, integration and testing on the host aircraft. The F/A-18C/D EW Suite includes the ALR-67(V)2 Radar Warning Receiver (RWR), the ALE-47 Countermeasures Dispensing Set (CMDS), the mission computer and other avionics. In addition to performing the RWR function, the ALR-67(V)2 is the EW Bus Controller. The EW Bus is the primary interface between the EW Systems (Jammer, RWR, and CMDS). The mission computer is the Avionics Bus Controller, the interface between the EW suite and other avionics.

ALQ-214 Software Improvement will provide the ALQ-214 with Digital Radio Frequency Memory deny-delay, technique capability significantly improving F/A-18C/D/E/F survivability. Acquisition and contract strategy includes development, integration and test of the ALQ-214 software improvements through sole-source contract award. Minor modification to other avionics may be required in order to integrate this new capability. These other avionics may include, but are not limited to, the ALR-67(V)2, ALR-67(V)3, ALE-47, ALE-50, ALE-55, Mission Computer and Fire Control Radar.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2011	FY 2012	FY 2013
Title: Tactical Air EW	49.353	62.100	29.874
Articles:	6	0	0
FY 2011 Accomplishments: FY11 Base: The IDECM Block 4, ALQ-214 ECP engineering effort continued into FY11. In addition, engineering and logistics support with laboratory testing began in FY11.			
FY 2012 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy							DATE: February 2012				
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)			R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev			PROJECT 2175: Tactical Air Electronic Warfare					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2011	FY 2012	FY 2013		
The Integrated Defensive Electronic Countermeasures (IDECM) Block 4, ALQ-214 Engineering Change Proposal (ECP) engineering effort will continue into FY12 and will include engineering and logistics support and flight testing. The ALQ-214 Software Improvement contract is planned for award to include development, integration and test of the ALQ-214 with Digital Radio Frequency Memory deny-delay, technique capability.											
FY 2013 Plans: The IDECM Block 4, ALQ-214 ECP engineering effort will conclude in FY13. Flight testing for the ALQ-214 ECP will resume. The ALQ-214 Software Improvement contract will continue into FY13 and will include engineering and logistics support.											
Accomplishments/Planned Programs Subtotals							49.353	62.100	29.874		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• APN/0576 1: IDECM	18.845	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	268.108
• APN/0576 2: Common On-Board Jammer	0.000	40.272	57.067	0.000	57.067	84.305	102.388	133.449	51.569	156.382	625.432
• PANMC/0182: Airborne Expendable CM	19.041	20.248	20.931	0.000	20.931	21.508	22.210	22.575	22.996	Continuing	Continuing
D. Acquisition Strategy											
IDECM Block 3 (IB-3) sole source award of Full Rate Production (FRP) in FY 2012. Annual IB-3 production contracts will continue through FY 2041. The ALQ-214 ECP contract effort was awarded sole source to ITT Electronic Systems in December 2009. The contract is planned to continue through FY 2013. ALQ-214 Software Improvement acquisition is planned via sole-source award to ITT in FY 2012. ITT is the original developer/manufacturer and current sustainer of the ALQ-214.											
E. Performance Metrics											
IDECM Block 3: Successfully award FRP 2-6 Contract in 3rd Qtr FY 2012.											
IDECM Block 4: Successfully conduct In-Process Review 3 (Production Cut-In 1) in 1st Qtr FY 2012.											
ALQ-214 Software Improvement: Successfully award a software development contract in 2nd Qtr FY 2012.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev				PROJECT 2175: Tactical Air Electronic Warfare					
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Aircraft Integration-IDECM	Various	Various:Various	70.761	-		-		-		-	0.000	70.761	
Aircraft Integration-IDECM Boeing	SS/CPFF	Boeing:St. Louis, MO	7.269	3.012	Mar 2012	-		-		-	0.000	10.281	10.281
Primary Hdw Dev AAR-47 FY07 SUPP ATK	SS/CPFF	ATK Missile:Clearwater, FL	16.000	-		-		-		-	0.000	16.000	16.000
Primary Hdw Dev AAR-47 FY07 SUPP AFB	MIPR	AFB:Eglin, FL	2.100	-		-		-		-	0.000	2.100	
Primary Hdw Dev AAR-47 FY07 SUPP NVS	MIPR	NVS:Fort Belvoir, VA	0.064	-		-		-		-	0.000	0.064	
Primary Hdw Dev - IDECM ITT	SS/FFP	ITT:Clifton, NJ	91.243	19.068	Dec 2011	-		-		-	0.000	110.311	110.311
Ship Suitability AAR-47	WR	NAWCAD:Pax River, MD	0.050	-		-		-		-	0.000	0.050	
Studies & Analysis DRFM (CONG)	MIPR	NUWC:Keyport, WA	0.018	-		-		-		-	0.000	0.018	
Systems Eng - IDECM BAE	SS/CPFF	BAE Systems:Nashua, NH	14.552	-		-		-		-	0.000	14.552	14.552
Systems Eng - IDECM	SS/CPFF	Various:Various	62.783	6.477	Mar 2012	5.186	Mar 2013	-		5.186	Continuing	Continuing	Continuing
Systems Eng - IDECM Raytheon	SS/CPFF	Raytheon:Goleta, CA	0.268	-		-		-		-	0.000	0.268	0.268
Risk Reduction DRFM (CONG)	SS/CPFF	ITT:Clifton, NJ	1.810	-		-		-		-	0.000	1.810	1.810
Risk Reduction IDECM ITT1	SS/CPFF	ITT:Clifton, NJ	2.495	-		-		-		-	0.000	2.495	2.495
Risk Reduction IDECM ITT2	SS/FP	ITT:Clifton, NJ	7.505	-		-		-		-	0.000	7.505	7.505
Risk Reduction ALQ-214 SW Imp	SS/CPFF	ITT:Clifton, NJ	3.427	-		-		-		-	0.000	3.427	3.427
Subtotal			280.345	28.557		5.186		-		5.186			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev				PROJECT 2175: Tactical Air Electronic Warfare					
Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Dev/Eng Supt AAR-47 (Non-FFRDC)	WR	NRL:Washington, DC	0.343	-		-		-		-	0.000	0.343	
Dev/Eng Supt AAR-47	WR	Various:Various	0.220	-		-		-		-	0.000	0.220	
Software Dev - IDECM	WR	Various:Various	6.843	-		-		-		-	0.000	6.843	
Integrated Log Supt AAR-47	SS/CPFF	ATK Missile:Clearwater, FL	0.650	-		-		-		-	0.000	0.650	0.650
Software Dev AAR-47	SS/CPFF	ATK Missile:Clearwater, FL	0.171	-		-		-		-	0.000	0.171	0.171
Integrated Log Supt - IDECM	WR	FRC-SE:Jacksonville, FL	0.413	0.096	Dec 2011	-		-		-	0.000	0.509	
MSS - IDECM (Non-FFRDC)	SS/CPFF	FRC-SE:Jacksonville, FL	0.200	-		-		-		-	0.000	0.200	0.200
Software Dev-ALQ-214 SW Dev	SS/CPFF	ITT:Clifton, NJ	-	11.452	Feb 2012	7.485	Dec 2012	-		7.485	Continuing	Continuing	Continuing
Software Dev-ALQ-214 SW Dev	SS/CPFF	Various:Various	-	4.997	Mar 2012	4.935	Mar 2013	-		4.935	Continuing	Continuing	Continuing
Subtotal			8.840	16.545		12.420		-		12.420			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Dev Test & Eval Supt AAR-47	WR	NRL:Washington, DC	0.270	-		-		-		-	0.000	0.270	
Dev Test & Eval Supt ALQ-214 SW Imp	WR	Various:Various	-	0.475	Dec 2011	1.253	Dec 2012	-		1.253	Continuing	Continuing	Continuing
IDECM Test Supt (OPTEVFOR)	WR	Oper T&E for CD 30:VA	4.048	-		-		-		-	0.000	4.048	
IDECM Test Supt (Non-FFRDC)	SS/CPFF	Various:Various	1.486	-		-		-		-	0.000	1.486	1.486
Live Fire Test & Eval AAR-47	WR	NRL:Washington, DC	0.508	-		-		-		-	0.000	0.508	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy											DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>				PROJECT 2175: <i>Tactical Air Electronic Warfare</i>					
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Operational Test & Eval AAR-47	WR	NRL:Washington, DC	0.100	-		-		-		-	0.000	0.100	
Oper Test & Eval ALQ-214 SW Imp	WR	Various:Various	-	-		-		-		-	Continuing	Continuing	Continuing
Studies & Analysis (Non-FFRDC) (CONG)	SS/CPFF	John Hopkins Un:Laurel, MD	0.774	-		-		-		-	0.000	0.774	0.774
Flight Test - IDECM	WR	Various:Various	1.278	2.592	Dec 2011	0.605	Dec 2012	-		0.605	Continuing	Continuing	Continuing
Flight Test- IDECM	WR	NAWCWD:China Lake, CA	-	8.646	Dec 2011	2.988	Dec 2012	-		2.988	Continuing	Continuing	Continuing
Subtotal			8.464	11.713		4.846		-		4.846			
Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
AAR-47 Travel	Allot	NAVAIR:Pax River, MD	0.050	-		-		-		-	0.000	0.050	
Prog Mgmt DRFM	WR	NAWCAD:Pax River, MD	0.002	-		-		-		-	0.000	0.002	
PM Supt DRFM (Non-FFRDC)	SS/CPFF	Amelex:California, MD	0.146	-		-		-		-	0.000	0.146	0.146
Prog Mgmt Supt DRFM (CONG)	WR	NAWCAD:Pax River, MD	0.234	-		-		-		-	0.000	0.234	
Mgt & Prof Supt Srvc-IDECM (Non-FFRDC)	SS/CPFF	Amelex:California, MD	0.404	0.571	Dec 2011	-		-		-	0.000	0.975	0.975
Prog Mgmt Supt - IDECM	WR	Various:Various	19.985	-		-		-		-	Continuing	Continuing	Continuing
Prog Mgmt Supt (Non-FFRDC)	SS/CPFF	DPA, Inc.:Arlington, VA	0.077	-		-		-		-	0.000	0.077	0.077
Travel - IDECM	Allot	Various:Various	0.104	-		-		-		-	0.000	0.104	
Travel - IDECM NAWCAD	Allot	NAWCAD:Pax River, MD	0.224	-		-		-		-	0.000	0.224	
Travel	Allot	NAWCAD:Pax River, MD	0.435	0.185	Oct 2011	0.150	Oct 2012	-		0.150	Continuing	Continuing	Continuing

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev				PROJECT 2175: Tactical Air Electronic Warfare					
Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Impact Fees	WR	NAWCAD:Pax River, MD	0.032	-		-		-		-	0.000	0.032	
Eng Supt - IDECM NAWCAD	WR	NAWCWD:China Lake, CA	9.547	-		-		-		-	0.000	9.547	
Eng Supt - IDECM	WR	Various:Various	32.505	-		-		-		-	0.000	32.505	
Eng/Log Supt - DRFM (CONG) VAR	WR	Various:Various	0.524	-		-		-		-	0.000	0.524	
Eng/Log Supt - DRFM (CONG) NAWCAD	WR	NAWCAD:Pax River, MD	0.713	-		-		-		-	0.000	0.713	
Eng/Log Supt - DRFM (CONG) DTIC	MIPR	DTIC:Fort Belvoir, VA	0.067	-		-		-		-	0.000	0.067	
Eng/Log Supt - DRFM NAWCAD	WR	NAWCAD:Pax River, MD	0.120	-		-		-		-	0.000	0.120	
Eng/Log Supt - DRFM	WR	Various:Various	0.420	-		-		-		-	0.000	0.420	
Eng/Log Supt - IDECM NAWCAD	WR	NAWCAD:Pax River, MD	2.136	1.528	Dec 2011	1.331	Dec 2012	-		1.331	Continuing	Continuing	Continuing
Eng/Log Supt - IDECM	WR	Various:Various	5.726	2.252	Dec 2011	5.108	Dec 2012	-		5.108	Continuing	Continuing	Continuing
Eng/Log Supt - DRFM (CONG) NRL	WR	NRL:Washington, DC	0.375	-		-		-		-	0.000	0.375	
Eng/Log Supt - DRFM (CONG) FRCSE	WR	FRC-SE:Jacksonville, FL	0.050	-		-		-		-	0.000	0.050	
Eng/Log Supt - IDECM FRCSE	WR	FRC-SE:Jacksonville, FL	0.158	-		-		-		-	0.000	0.158	
Eng & Tech Svcs (Non- FFRDC) L3	SS/CPFF	L-3/Titan:California, MD	0.448	-		-		-		-	0.000	0.448	0.448
Eng & Tech Svcs (Non- FFRDC) NRL	SS/CPFF	NRL:Washington, DC	0.479	0.250	Dec 2011	0.258	Dec 2012	-		0.258	Continuing	Continuing	Continuing
Eng & Tech Svcs (Non- FFRDC)	SS/CPFF	COTF:Norfolk, VA	0.534	0.499	Dec 2011	0.575	Dec 2012	-		0.575	Continuing	Continuing	Continuing
Subtotal			75.495	5.285		7.422		-		7.422			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy								DATE: February 2012				
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>				PROJECT 2175: <i>Tactical Air Electronic Warfare</i>				
		Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		373.144	62.100		29.874		-		29.874			
Remarks												

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>	PROJECT 2175: <i>Tactical Air Electronic Warfare</i>

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>	PROJECT 2175: <i>Tactical Air Electronic Warfare</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>	PROJECT 2175: <i>Tactical Air Electronic Warfare</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
IDECM				
Acquisition Milestones: IDECM Block 3 Milestones: IDECM Block 3 Milestone III	4	2011	4	2011
Acquisition Milestones: IDECM Block 3 Milestones: IDECM Block 3 Initial Operating Capability (IOC)	4	2011	4	2011
Acquisition Milestones: IDECM Block 4 Milestones: IDECM Block 4 IOC	3	2014	3	2014
Acquisition Milestones: ALQ-214 SW Improvement: ALQ-214 SW Improvement (IOC)	4	2015	4	2015
Acquisition Milestones: Program Reviews: IDECM Block 4 In-Process Review (IPR) 3	2	2012	2	2012
Acquisition Milestones: Program Reviews: IDECM Block 4 In-Process Review (IPR) 4	2	2013	2	2013
Acquisition Milestones: Program Reviews: IDECM Block 4 In-Process Review (IPR) 5	2	2014	2	2014
Systems Development: IDECM Block 4 Development: IDECM Block 4 Development	1	2011	3	2014
Systems Development: IDECM Block 4 Development: IDECM Block 4 EDM Deliveries (18)	2	2011	3	2012
Systems Development: System Development Reviews: ALQ-214 SW Improvement Development (PDR)	3	2012	3	2012
Systems Development: System Development Reviews: ALQ-214 SW Improvement Development (CDR)	1	2013	1	2013
Systems Development: ALQ-214 SW Improvement Development: ALQ-214 SW Improvement (Contract Award)	2	2012	2	2012
Systems Development: ALQ-214 SW Improvement Development: ALQ-214 SW Improvement Development	2	2012	1	2015
Test and Evaluation: IDECM B-3 Verification of Correction of Deficiencies Testing: IDECM Block 3 VCD DT Flight Testing	1	2011	1	2011
Test and Evaluation: IDECM B-3 Verification of Correction of Deficiencies Testing: IDECM Block 3 VCD OT Flight Test	1	2011	2	2011

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev		PROJECT 2175: Tactical Air Electronic Warfare	
	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Test and Evaluation: IDECM Block 4 Testing: IDECM Block 4 Development Testing (DT)	1	2011	4	2013
Test and Evaluation: IDECM Block 4 Testing: IDECM Block 4 Operational Assessment (OA)	1	2012	3	2012
Test and Evaluation: IDECM Block 4 Testing: IDECM Block 4 Development Testing Flights	3	2012	1	2013
Test and Evaluation: IDECM Block 4 Testing: IDECM Block 4 Operational Testing Flights	1	2013	4	2013
Test and Evaluation: ALQ-214 SW Improvement Testing: ALQ-214 SW Improvement Development Testing (DT) Lab/Ground	1	2013	4	2014
Test and Evaluation: ALQ-214 SW Improvement Testing: ALQ-214 SW Improvement Development Testing(DT)/Operational Testing (OT) Flights	2	2014	4	2014
Test and Evaluation: ALQ-214 SW Improvement Testing: ALQ-214 SW Improvement Operational Testing (OT) Flights	1	2015	3	2015
Production Milestones: IDECM Block 2 Contract Awards: IDECM Block 2 Full Rate Production (FRP) 8	2	2011	2	2011
Production Milestones: IDECM Block 3 Contract Awards: IDECM Block 3 Full Rate Production (FRP) 1	4	2011	4	2011
Production Milestones: IDECM Block 3 Contract Awards: IDECM Block 3 Full Rate Production (FRP) 2	3	2012	3	2012
Production Milestones: IDECM Block 3 Contract Awards: IDECM Block 3 Full Rate Production (FRP) 3	2	2013	2	2013
Production Milestones: IDECM Block 3 Contract Awards: IDECM Block 3 Full Rate Production (FRP) 4	2	2014	2	2014
Production Milestones: IDECM Block 3 Contract Awards: IDECM Block 3 Full Rate Production (FRP) 5	2	2015	2	2015
Production Milestones: IDECM Block 3 Contract Awards: IDECM Block 3 Full Rate Production (FRP) 6	2	2016	2	2016

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev		PROJECT 2175: Tactical Air Electronic Warfare	
	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Production Milestones: IDECM Block 4 Contract Awards: IDECM Block 4 Full Rate Production (FRP) 9	2	2012	2	2012
Production Milestones: IDECM Block 4 Contract Awards: IDECM Block 4 Full Rate Production (FRP) 10	2	2013	2	2013
Production Milestones: IDECM Block 4 Contract Awards: IDECM Block 4 Full Rate Production (FRP) 11	2	2014	2	2014
Production Milestones: IDECM Block 4 Contract Awards: IDECM Block 4 Full Rate Production (FRP) 12	2	2015	2	2015
Production Milestones: IDECM Block 4 Contract Awards: IDECM Block 4 Full Rate Production (FRP) 13	2	2016	2	2016
Production Milestones: IDECM Block 4 Contract Awards: IDECM Block 4 Full Rate Production (FRP) 14	2	2017	2	2017
Deliveries: IDECM Block 2: IDECM Block 2 FRP 5 Deliveries (17)	1	2011	2	2011
Deliveries: IDECM Block 2: IDECM Block 2 FRP 6 Deliveries (10)	2	2011	2	2012
Deliveries: IDECM Block 2: IDECM Block 2 FRP 7 Deliveries (10)	2	2012	2	2013
Deliveries: IDECM Block 2: IDECM Block 2 FRP 8 Deliveries (3)	2	2013	2	2014
Deliveries: IDECM Block 3: IDECM Block 3 LRIP 4 Deliveries (150)	1	2011	1	2011
Deliveries: IDECM Block 3: IDECM Block 3 LRIP 5 Deliveries (251)	1	2011	4	2011
Deliveries: IDECM Block 3: IDECM Block 3 LRIP 6 Deliveries (334)	4	2011	4	2012
Deliveries: IDECM Block 3: IDECM Block 3 FRP 1 Deliveries (276)	4	2012	4	2013
Deliveries: IDECM Block 3: IDECM Block 3 FRP 2 Deliveries (292)	3	2013	3	2014
Deliveries: IDECM Block 3: IDECM Block 3 FRP 3 Deliveries (324)	3	2014	3	2015
Deliveries: IDECM Block 3: IDECM Block 3 FRP 4 Deliveries (336)	3	2015	3	2016
Deliveries: IDECM Block 3: IDECM Block 3 FRP 5 Deliveries (348)	3	2016	3	2017
Deliveries: IDECM Block 3: IDECM Block 3 FRP 6 Deliveries (354)	3	2017	4	2017
Deliveries: IDECM Block 4: IDECM Block 4 FRP 9 Deliveries (7)	2	2014	2	2015
Deliveries: IDECM Block 4: IDECM Block 4 FRP 10 Deliveries (17)	2	2015	2	2016

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev		PROJECT 2175: Tactical Air Electronic Warfare	
	Start		End	
Events by Sub Project	Quarter	Year	Quarter	Year
Deliveries: IDECM Block 4: IDECM Block 4 FRP 11 Deliveries (30)	2	2016	2	2017
Deliveries: IDECM Block 4: IDECM Block 4 FRP 12 Deliveries (41)	2	2017	4	2017

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev				PROJECT 3327: MAGTF EW Aviation Development			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
3327: MAGTF EW Aviation Development	-	10.912	-	-	-	-	-	-	-	0.000	10.912
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This project unit supports the United States Marine Corps (USMC) development of Marine Air Ground Task Force (MAGTF) Electronic Warfare (EW) and the various elements of its distributed System of Systems that support the Commandant of the Marine Corps' Strategy and Vision 2025 and Joint Vision 2025. The SoS will address MAGTF EW sufficiency gaps in the areas of Electronic Attack, Electronic Warfare Support, and Electronic Protection with a multitude of payloads designed for carriage on a variety of organic MAGTF air and ground assets. Payload development plans follow an adaptable, modular and open architecture philosophy to combat the increasing capability gap and enable future growth at a reduced operational and sustainment cost.

Prior to FY12, Intrepid Tiger II efforts were budgeted under PU 0556.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2011	FY 2012	FY 2013
Title: MAGTF EW Software Reprogrammable Payload (SRP) Articles: FY 2012 Plans: Transition SRP and associated components; Collaborative EW/EW Battle Management, EW Services Architecture (formerly Collaborative On-line Reconnaissance Operationally Responsive Attack Link), and Intrepid Tiger II(v)2 from the Joint Capabilities Technology Demonstration into a viable capability.	-	5.312 0	-
Title: Intrepid Tiger II (v)1 (ALQ-231) Articles: FY 2012 Plans: OCO: This project develops integration between Intrepid Tiger II(v)1 (ALQ-231) and USMC platforms including F/A-18, AV-8B, and the UAS. Initiation of incremental capability improvements and maintenance of threat effectiveness to Area of Regard defined threat sets employs fleet operator and networked utility assessment inputs. Production of 25 Intrepid Tiger II(v)1 (ALQ-231) Engineering Development Models. The project fully establishes initial supportability and maintenance concepts.	-	5.600 0	-
Accomplishments/Planned Programs Subtotals	-	10.912	-

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604270N: Electronic Warfare (EW) Dev				PROJECT 3327: MAGTF EW Aviation Development			
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• APN/0587: MAGTF EW for Aviation	2.600	0.489	34.127	0.000	34.127	14.446	20.507	8.006	6.095	Continuing	Continuing
D. Acquisition Strategy											
This project unit is part of USMC led efforts to ensure Marine Corps requirements are included in the budget process for the FYDP and beyond. These efforts include Software Reprogrammable Payload, Intrepid Tiger II(v)1 (ALQ-231), Intrepid Tiger II(v)2, Collaborative EW (Electronic Warfare)/EW Battle Management, EW Payload, and EW Service Architecture (formerly Collaborative On-line Reconnaissance Operationally Responsive Attack Link). These programs are the Marine Corps' initial steps to create systems to distribute EW capability across the battle space with the intent of replacing EA-6B capabilities for the Marine Air Ground Task Force by 2019.											
E. Performance Metrics											
Successful completion of Intrepid Tiger II(v)1 (ALQ-231) Engineering Development Model (EDM) Lot 1 Developmental Testing/Operational Testing. Delivery of final EDM test articles prior to Full Operational Capability.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>	PROJECT 3327: <i>MAGTF EW Aviation Development</i>
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Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering	WR	NAWC AD:Patuxent River, MD	-	0.200	Nov 2011	-		-		-	0.000	0.200	
Systems Engineering	WR	NSWC:Various	-	0.200	Nov 2011	-		-		-	0.000	0.200	
Systems Engineering	WR	Naval Research Lab:Washington, DC	-	5.312	Dec 2011	-		-		-	0.000	5.312	
Systems Engineering	WR	NAWC WD:Pt. Mugu, CA	-	1.460	Nov 2011	-		-		-	0.000	1.460	
Subtotal			-	7.172		-		-		-	0.000	7.172	

Remarks

Beginning in FY13, this program will be funded under Program Element 0604376M, Project Unit 3327.

Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Eng & Tech Svc (Non-FFRDC)	Various	Various:Various	-	1.440	Nov 2011	-		-		-	0.000	1.440	1.440
Subtotal			-	1.440		-		-		-	0.000	1.440	1.440

Remarks

Beginning in FY13, this program will be funded under Program Element 0604376M, Project Unit 3327.

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Testing	WR	NAWCAD:Patuxent River, MD	-	1.600	Nov 2011	-		-		-	0.000	1.600	
Flight Testing	WR	NAWCWD:China Lake, CA	-	0.700	Nov 2011	-		-		-	0.000	0.700	
Subtotal			-	2.300		-		-		-	0.000	2.300	

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy											DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>				PROJECT 3327: <i>MAGTF EW Aviation Development</i>					

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Remarks Beginning in FY13, this program will be funded under Program Element 0604376M, Project Unit 3327.													
			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	10.912		-		-		-	0.000	10.912	
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>	PROJECT 3327: <i>MAGTF EW Aviation Development</i>

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>	PROJECT 3327: <i>MAGTF EW Aviation Development</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604270N: <i>Electronic Warfare (EW) Dev</i>	PROJECT 3327: <i>MAGTF EW Aviation Development</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Software Reprogrammable Payload</i>				
Test & Evaluation: Technical Evaluation: Joint Capability Technology Demonstration (JCTD)	1	2011	4	2012
Test & Evaluation: Operational Evaluation: Operational Assessment (OA)	2	2011	2	2011
<i>Intrepid Tiger II (ALQ-231)</i>				
Acquisition Milestones: Milestones: Early Operational Capability (EOC)	1	2012	1	2012
Acquisition Milestones: Milestones: IOC	3	2012	3	2012
Test & Evaluation: Operational Evaluation: Quick Reaction Assessment (QRA)	3	2011	4	2011
Deliveries: Engineering Development Model (EDM) Lot 1 Deliveries (Qty 10)	3	2011	4	2011
Deliveries: EDM Lot 2 Deliveries (Qty 25)	2	2012	4	2012