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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy **DATE:** February 2011

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>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	107.394	80.819	89.418	5.600	95.018	52.963	38.040	37.762	26.266	Continuing	Continuing
0556: <i>EW Counter Response</i>	32.319	24.287	20.222	-	20.222	19.858	20.337	20.779	20.900	Continuing	Continuing
1742: <i>EW Technical Development and T&E</i>	4.106	4.799	1.784	-	1.784	1.702	1.649	1.552	1.542	Continuing	Continuing
2175: <i>Tactical Air Electronic Warfare</i>	62.312	51.733	62.100	-	62.100	30.044	14.996	14.560	3.138	Continuing	Continuing
2260: <i>Specific Emitter ID</i>	0.690	-	-	-	-	-	-	-	-	0.000	0.690
3327: <i>MAGTF EW Aviation Development</i>	-	-	5.312	5.600	10.912	1.359	1.058	0.871	0.686	Continuing	Continuing
9999: <i>Congressional Adds</i>	7.967	-	-	-	-	-	-	-	-	0.000	7.967

A. Mission Description and Budget Item Justification

This 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.

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B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	105.193	80.819	77.804	-	77.804
Current President's Budget	107.394	80.819	89.418	5.600	95.018
Total Adjustments	2.201	-	11.614	5.600	17.214
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	5.095	-			
• SBIR/STTR Transfer	-2.638	-			
• Program Adjustments	-	-	13.245	5.600	18.845
• Section 219 Reprogramming	-0.253	-	-	-	-
• Rate/Misc Adjustments	-	-	-1.631	-	-1.631
• Congressional General Reductions Adjustments	-0.003	-	-	-	-

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: *Congressional Adds*

- Congressional Add: *F/A18 Countermeasures Improvement*
- Congressional Add: *Small Survivable Jammer*
- Congressional Add: *PT Mugu Electronic Warfare Lab Upgrade*

Congressional Add Subtotals for Project: 9999

Congressional Add Totals for all Projects

	FY 2010	FY 2011
	3.983	-
	0.797	-
	3.187	-
Congressional Add Subtotals for Project: 9999	7.967	-
Congressional Add Totals for all Projects	7.967	-

Change Summary Explanation

Technical:

- 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: Not Applicable
- Project Unit 2260 / SPECIFIC EMITTER ID: Not Applicable
- Project Unit 3327 / MAGTF EW Aviation Development: Not Applicable.

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Project Unit 9999 / CONGRESSIONAL ADD: Not Applicable		
Schedule: Project Unit 0556 / EW COUNTER RESPONSE: JATO Executive Steering Committee Reviews added to schedule for increased visibility. A shortage in availability of test aircraft resulted in ICAP III schedule delays. Test aircraft availability decreased from two to one aircraft during Block 4 testing causing delays to Block 4 and subsequent Block 5 and 6 Development Test/Operational Test (DT/OT). ICAP III Block 4 OT completion delayed from 2nd QTR 2010 to 4th QTR 2010. ICAP III Fleet Release moved from 3rd QTR 2010 to 4th QTR 2010. ICAP III Block 5 DT/OT completion delayed from 2nd QTR 2011 to 3rd QTR 2011. ICAP III Block 5 Fleet Release moved from 3rd QTR 2011 to 4th QTR 2011. ICAP III Block 6 Fleet Release moved from 2nd QTR 2013 to 3rd QTR 2013. ICAP III Block 7 DT/OT and Fleet Release added in 2014-2015. Project Unit 1742 / EW TECHNICAL DEVELOPMENT & T&E: Not Applicable Project Unit 2175 / TACTICAL AIR ELECTRONIC WARFARE: IDECM Block 2 (IB-2): Full Rate Production deliveries shown on schedule. IDECM Block 3 (IB-3): The IB-3 schedule has been changed to reflect the completion of DT Flight Test. The completion of OT Flight Test has been moved to 2nd Qtr FY 2011. IB-3 Milestone III and Initial Operational Capability (IOC) have been moved to 3rd Qtr FY 2011 IDECM Block 4 (IB-4): Not Applicable ALQ-214 Software Improvement: Initial Operational Capability (IOC) planned for 4th Qtr FY 2015. Test events and SW Dev efforts added to the schedule. Project Unit 2260 / SPECIFIC EMITTER ID: Not Applicable Project Unit 3327 / MAGTF EW Aviation Development: Not Applicable. Project Unit 9999 / CONGRESSIONAL ADD: Not Applicable		

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0556: <i>EW Counter Response</i>	32.319	24.287	20.222	-	20.222	19.858	20.337	20.779	20.900	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. The required improvements in Airborne Electronic Attack (AEA) will be achieved by applying state-of-the-art signal exploitation, processing, display techniques, improved tactics, and jamming capabilities.

These efforts include the continued development of Force Protection/Overseas Contingency Operations (OCO) (classified discussion available upon request) Navigation (NAV) and Information Operations (I/O) 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 continuing development and integration of all EW and Electronic Attack systems for the US Navy electronic attack aircraft including improvements within precision Direction of Arrival (DOA), geo-location, Specific Emitter Identification (SEI), auto-Electronic Support Measures (ESM), and selective reactive jamming.

The Improved Capability (ICAP) III test articles begun in FY 1999 were two EA-6B aircraft modified to support the ICAP III program and Low Band Transmitter (LBT) Engineering Development Models (EDMs). An EA-6B ICAP III aircraft will continue to be used as a test article during government test and evaluation of Multi Functional Information Distribution Systems/Link-16, LBT and other EW improvements. A requirement exists to allow the EA-6B 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 full EW 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 (TEAMS) to the Joint Mission Planning System (JMPS), including development of EA-6B Unique Planning Modules.

The ALQ-99 LBT system provides an expanded war fighting capability against the early warning/acquisition radars and communication links of modern integrated air defense systems. The LBT entered Engineering and Manufacturing Development (EMD) in FY 1996, followed by Low Rate Initial Production (LRIP) in FY 2005, and achieved Full Rate Production (FRP) Milestone III approval in FY 2008.

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 and EA-18G. JATO will continue to generate techniques, tactics, and procedures that will help to optimize the capabilities of existing weapon systems, and to assist in requirements definitions of emerging AEA systems.

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The Airborne Electronic Attack Expendable (AEAE) 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 (EAS) interface specification . This flexible system allows rapid technology insertion and threat set adaptability that will address AEA capability and sufficiency gaps.

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

	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p>Title: ICAP III UPDATE</p> <p align="right">Articles:</p> <p>FY 2010 Accomplishments: Efforts will concentrate on completing the integration and enhancement of LINK-16 and ALQ-218 capabilities into the ICAP III aircraft as well as resolving any Operational Evaluation (OPEVAL)/Verification of Correction of Follow On Test and Evaluation (FOT&E) related deficiencies. ICAP III Block 4 weapon system includes integration of ALE-47 hardware and USQ-113 software improvements with a fleet release scheduled for 3rd QTR FY10. ICAP III Block 5 includes a robust software package designed to enhance functionality of the ALQ-218 and related EA-6B weapons systems. Development began in FY09 and continues until fielded.</p> <p>FY 2011 Plans: Efforts will concentrate on continuing the integration and enhancement of LINK-16 and ALQ-218 capabilities into the ICAP III aircraft as well as resolving any OPEVAL/Verification of Correction of FOT&E related deficiencies. Efforts will focus on fielding the improvements achieved in ICAP III Block 5 as well as begin the initial planning and development of ICAP III Block 6.</p> <p>FY 2012 Base 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.</p>	<p>4.140</p> <p>0</p>	<p>6.376</p> <p>0</p>	<p>5.281</p> <p>0</p>	<p>-</p>	<p>5.281</p> <p>0</p>
<p>Title: MISSION PLANNING</p> <p align="right">Articles:</p> <p>FY 2010 Accomplishments: JMPS and associated EA-6B Unique Planning Components (UPC's) support ICAP III Block upgrades. These efforts will continue development of the JMPS components in direct support of the ICAP III system.</p> <p>FY 2011 Plans: JMPS and associated EA-6B UPC's support ICAP III Block upgrades. These efforts will continue 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.</p> <p>FY 2012 Base Plans:</p>	<p>4.843</p> <p>0</p>	<p>3.893</p> <p>0</p>	<p>3.220</p> <p>0</p>	<p>-</p>	<p>3.220</p> <p>0</p>

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
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. New framework required to counter Microsoft Operating System obsolescence.					
Title: LINK 16 MESSAGE SETS AND DATA LINKS					
Articles:					
FY 2010 Accomplishments: Continued 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.					
FY 2011 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.					
FY 2012 Base 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.					
Title: JAMMER TECHNIQUES OPTIMIZATION (JATO)					
Articles:					
FY 2010 Accomplishments: Continued 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 generated techniques, tactics, and procedures to optimize the capabilities of ALQ-99 , ALQ-218, ALQ-227, ALQ-231, ALE-43 and ITALD-J systems, and assisted in requirements definitions of emerging AEA systems. JATO also continued to lead efforts in support of OCO and Force Protection issues. (Classified discussion available upon request.)					
FY 2011 Plans:					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p>conducted through the System Requirements Review (SRR). ITALD A-Kit design completed initial survey and identified integration points to the legacy design. Initial logistics analysis and maintenance concepts developed.</p> <p>FY 2011 Plans: AEA payload/ITALD A-Kit and B-kit designs will be completed and payload captive carry flights will demonstrate system level operation and effectiveness. Mission planning tools will be completed with CONOP development supporting TTPs maturation. ECP and logistics support including Maintenance and Operation publications will be completed. EDM assets will be built to support ground and initial F-18 flight testing. Systems Engineering reviews will be conducted through the Flight Test Readiness Review. AEA Payload will be optimized for additional form factors and levels of integration. Risk Reduction for a long term, sustainable AEA solution will be conducted to include analysis, prototype and test for F/A-18 E/F carriage of the AEA payload in an Airborne Electronic Attack Expendable (AEAE) and other form factors to include networked connectivity and additional operational capabilities.</p> <p>FY 2012 Base Plans: The AEAE project will continue Risk Reduction including requirements scoping, Concept of Operations (CONOP) refinement, engineering analysis and data gathering on existing platforms such as the ADM-160 MALD or ATALD air vehicles for F/A-18 E/F carriage. Threat analysis and capability improvements for the Electronic Attack Subsystem (EAS) payload and threat effectiveness review will address Area of Regard (AOR) defined threat sets utilizing fleet operator inputs. Will conduct training, planning, supportability, and maintenance concept refinement.</p>					
Accomplishments/Planned Programs Subtotals	32.319	24.287	20.222	-	20.222

C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• APN/05110: <i>EA-6 Series</i>	84.691	29.891	27.734	0.000	27.734	16.916	13.200	8.237	6.202	0.530	3,400.623
• APN/05130: <i>AEA Systems</i>	0.000	33.772	34.065	53.100	87.165	38.055	35.905	29.857	51.316	0.000	276.070

D. Acquisition Strategy

The ICAP III contract, an EMD Cost Plus Incentive Fee/Award Fee basic contract with two Fixed Price Incentive (FPI) 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. LRIP contract award was completed in FY 2003. A Milestone III Navy Program Decision Meeting was held on 23 September 2005. The Acquisition Decision Memorandum

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1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	PE 0604270N: <i>Electronic Warfare (EW) Dev</i>	0556: <i>EW Counter Response</i>

was signed by ASN RDA 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 DT.
2. Continued development of ICAP III Block 5 sufficient to conduct a successful and on time development test.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	259.544	0.627	Feb 2011	0.533	Dec 2011	-		0.533	2.200	262.904	262.904
Studies & Analysis (Non FFRDC)	C/FFP	Various:Various	1.043	-		-		-		-	0.000	1.043	1.043
Systems Engineering NR	WR	Naval Research Lab:Maryland	3.802	0.531	Nov 2010	0.446	Dec 2011	-		0.446	2.000	6.779	
Systems Engineering NAWCAD	WR	NAWCAD:Patuxent River, MD	14.702	3.027	Nov 2010	2.294	Nov 2011	-		2.294	9.644	29.667	
Systems Eng/BLK Update	WR	NAWCWD:Point Mugu, CA	46.894	7.000	Nov 2010	5.921	Nov 2011	-		5.921	24.707	84.522	
Systems Engineering NSWC	WR	NSWC Det:Crane, IN	7.346	0.912	Dec 2010	0.755	Dec 2011	-		0.755	3.600	12.613	
Systems Engineering VAR	WR	Various:Various	11.130	1.733	Dec 2010	1.112	Dec 2011	-		1.112	6.800	20.775	
Subtotal			344.461	13.830		11.061		-		11.061	48.951	418.303	

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	16.354	4.288	Feb 2011	4.035	Dec 2011	-		4.035	13.644	38.321	38.321
Eng & Tech Svc (Non FFRDC)	Various	Various:Various	3.109	5.563	Oct 2010	4.567	Dec 2011	-		4.567	19.000	32.239	32.239
DFCS Installs	Various	Various:Various	0.559	-		-		-		-	0.000	0.559	
ILS Pubs - ICAP III	WR	FRC:Jacksonville, FL	0.809	0.464	Dec 2010	0.424	Dec 2011	-		0.424	1.800	3.497	
Subtotal			20.831	10.315		9.026		-		9.026	34.444	74.616	

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
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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 4	4	2010	4	2010
Acquisition Milestones: Milestones: Fleet Release - ICAP III BLOCK 5	4	2011	4	2011
Acquisition Milestones: Milestones: Fleet Release - ICAP III BLOCK 6	3	2013	3	2013
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
Test & Evaluation: Operational Evaluation: ICAP III Block 4 OT	2	2010	4	2010
Test & Evaluation: Operational Evaluation: ICAP III Block 5 DT/OT	3	2010	3	2011
Test & Evaluation: Operational Evaluation: ICAP III Block 6 DT/OT	3	2012	2	2013
Test & Evaluation: Operational Evaluation: ICAP III Block 7 DT/OT	1	2014	1	2015
Deliveries: ICAP III - Lot 3 FRP Deliveries (Qty 7)	2	2010	1	2011
Deliveries: ICAP III - Lot 4 FRP Deliveries (Qty 9)	2	2011	1	2012

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
1742: <i>EW Technical Development and T&E</i>	4.106	4.799	1.784	-	1.784	1.702	1.649	1.552	1.542	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 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 for 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 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p>Title: EW Technical Development and T&E</p> <p align="right">Articles:</p>	0.402 0	0.420 0	-	-	-
<p>FY 2010 Accomplishments: Continued airborne Information Warfare jammer development, test, and evaluation to include ancillary equipment, cabling, hardware, antennas and installation on prototype aircraft.</p> <p>FY 2011 Plans: Complete airborne Information Warfare jammer development, test, and evaluation to include ancillary equipment, cabling, hardware, antennas and installation on prototype aircraft.</p>					
<p>Title: EW Technical Development Studies & Analysis</p> <p align="right">Articles:</p>	2.534 0	2.715 0	1.454 0	-	1.454 0
<p>FY 2010 Accomplishments: Continued studies and vulnerability analysis on emerging/changing threats/targets for EW programs.</p> <p>FY 2011 Plans: Continue studies and vulnerability analysis on emerging/changing threats/targets for EW programs.</p> <p>FY 2012 Base Plans: Continue studies and vulnerability analysis on emerging/changing threats/targets for EW programs. Dedicated Testbed for purposes of reverse engineering will no longer be funded.</p>					
<p>Title: EW Technical Development/Develop and Systems Integration</p>	0.598	1.152	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p align="right">Articles:</p> <p>FY 2010 Accomplishments: Continued developing EW capabilities in accordance with Fleet Forces Command and prioritized signal requirements that are first to be integrated into existing MCS-21 EW systems and deployed on air and surface platforms.</p> <p>FY 2011 Plans: Continue developing EW capabilities in accordance with Fleet Forces Command and prioritize signals that are first to be integrated into existing MCS-21 EW systems and deployed on air and surface platforms.</p>	0	0			
<p>Title: EW Technical Development/Program Management Support</p> <p align="right">Articles:</p> <p>FY 2010 Accomplishments: Continued to fund necessary travel expenses and training to support the Research & Development projects as well as acquisition expenses in support of the program management office.</p> <p>FY 2011 Plans: Continue funding necessary travel expenses and training to support the Research & Development projects as well as acquisition expenses in support of the program management office.</p> <p>FY 2012 Base Plans: Continue funding necessary travel expenses and training to support the Research & Development projects as well as acquisition expenses in support of the program management office.</p>	0.572 0	0.512 0	0.330 0	-	0.330 0
Accomplishments/Planned Programs Subtotals	4.106	4.799	1.784	-	1.784

C. Other Program Funding Summary (\$ in Millions)
N/A

D. Acquisition Strategy
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).

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011
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>

E. Performance Metrics

NIOC serves as the Program Management Office of the EW Technical Development and Information Warfare (IW) program. As such, NIOC Suitland 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 2012 Navy **DATE:** February 2011

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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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	-	Oct 2010	-		-		-	Continuing	Continuing	Continuing
Aircraft Integration	WR	NAWC CL:China Lake, CA	1.395	0.205	Oct 2010	-		-		-	Continuing	Continuing	Continuing
Subtotal			4.999	0.205		-		-		-			

Remarks
Continue studies for the development of EW/IW capabilities, test and evaluation to include ancillary equipment, cabling, hardware, antennas and installation on prototype aircraft and other Navy platforms. Current capabilities installation is planned for installation on final special prototype aircraft in FY11.

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	2.189	0.798	Oct 2010	0.279	Oct 2011	-		0.279	Continuing	Continuing	Continuing
Software Development	C/CPFF	Classified:Various	2.866	1.078	Oct 2010	0.202	Oct 2011	-		0.202	Continuing	Continuing	Continuing
Studies & Analyses	Various	Classified:Various	5.772	2.202	Nov 2010	0.950	Nov 2011	-		0.950	Continuing	Continuing	Continuing
Subtotal			10.827	4.078		1.431		-		1.431			

Remarks
Conduct studies and vulnerability analysis on emerging threats/targets for Electronic Warfare (EW) programs.

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	-		-		-		-			

Remarks
Supports the development of technical test plans and techniques for developed capabilities at various test facilities for multiple navy platforms.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

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Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	Various	Classified:Various	0.696	0.209	Oct 2010	0.156	Oct 2011	-		0.156	Continuing	Continuing	Continuing
Travel	WR	NIOC:Washington DC	1.081	0.307	Oct 2010	0.197	Oct 2011	-		0.197	Continuing	Continuing	Continuing
Acquisition Workforce Fund - 2009	Various	Various:Various	0.026	-		-		-		-	0.000	0.026	
Subtotal			1.803	0.516		0.353		-		0.353			

Remarks
Provides for official travel and training expenses and miscellaneous consumables for the program management office.

	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	20.519	4.799		1.784		-		1.784			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
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 2012 Navy		DATE: February 2011
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: Fixed Site Delivery #3	4	2011	4	2011
Countermeasure Test Date: Countermeasure Delivery #3	4	2011	4	2011
Countermeasure Test Date: Countermeasure Test #3	4	2012	4	2012
Test Support (NRL): Test Support (NRL)	1	2010	4	2011
EW CM Capabilities: Countermeasure Delivery #4	4	2012	4	2012
EW CM Capabilities: Countermeasure Development	1	2010	1	2010
EW CM Capabilities: Countermeasure Delivery #5	4	2014	4	2014
EW CM Capabilities: Countermeasure Delivery #6	4	2016	4	2016
Vulnerability Analysis Studies: Vulnerability Analysis Studies	1	2010	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy								DATE: February 2011			
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>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2175: <i>Tactical Air Electronic Warfare</i>	62.312	51.733	62.100	-	62.100	30.044	14.996	14.560	3.138	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 (RF) threat environment. Initial Operational Test & Evaluation (IOT&E) found IB-3 effective, not suitable. Verification of Correction to Deficiencies (VCD) identified during IOT&E is required. VCD activities are underway and are planned to conclude in 2nd Qtr FY 2011.

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 (EDMs), 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 DRFM 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 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: Tactical Air Electronic Warfare	62.312	51.733	62.100	-	62.100
Articles:	6	6	0		0
FY 2010 Accomplishments:					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
FY10: The IDECM Block 4, ALQ-214 ECP engineering effort was awarded in December 2009 to ITT Electronic Systems and includes the final design, development, integration and test of 18 Engineering and Manufacturing Development (EMD) units. The contract is planned to continue through FY13. FY 2011 Plans: FY11 Base: The IDECM Block 4, ALQ-214 ECP engineering effort will continue into FY11. In addition, engineering and logistics support with laboratory testing will begin in FY11. FY 2012 Base Plans: The IDECM Block 4, ALQ-214 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 DRFM deny-delay, technique capability.					
Accomplishments/Planned Programs Subtotals	62.312	51.733	62.100	-	62.100

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• APN/0576 1: <i>IDECM</i>	41.924	18.942	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	268.501
• APN/0576 2: <i>Common On-Board Jammer</i>	0.000	0.000	65.772	0.000	65.772	73.991	89.449	96.090	141.498	54.559	521.359
• PANMC/0182: <i>Airborne Expendable CM</i>	23.924	19.041	20.248	0.000	20.248	21.270	21.912	22.614	23.015	719.716	982.206

D. Acquisition Strategy
IDECM Block 3 (IB-3) sole source award of Full Rate Production (FRP) in FY 2011. Annual IB-3 production contracts will continue through FY 2041. The ALQ-214 ECP 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. ITT is the original developer/manufacturer and current sustainer of the ALQ-214.

E. Performance Metrics
IDECM Block 3: Successfully complete Verification of Correction to Deficiencies (VCD) Operational Test in 2nd Qtr FY 2011. Successfully achieve Milestone III in 3rd Qtr FY 2011. Successfully achieve Initial Operational Capability (IOC) in 3rd Qtr FY 2011.

IDECM Block 4: Successfully conduct In-Process Review 3 (Production Cut-In 1) in 1st Qtr FY 2012.

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ALQ-214 Software Improvement: Successfully award a software development contract in 1st Qtr FY 2012.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	2.305	4.974	Mar 2011	3.450	Mar 2012	-		3.450	0.000	10.729	10.729
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	56.767	34.258	Nov 2010	19.286	Dec 2011	-		19.286	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	4.952	Mar 2011	5.398	Mar 2012	-		5.398	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
Subtotal			237.478	44.184		28.134		-		28.134			

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Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	0.293	0.139	Dec 2010	0.143	Dec 2011	-		0.143	0.000	0.575	
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	-	-		9.276	Mar 2012	-		9.276	Continuing	Continuing	Continuing
Software Dev-ALQ-214 SW Dev	SS/CPFF	Various:Various	-	-		4.997	Mar 2012	-		4.997	Continuing	Continuing	Continuing
Subtotal			8.720	0.139		14.416		-		14.416			

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	-	-		0.477	Dec 2011	-		0.477	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	
	WR	NRL:Washington, DC	0.100	-		-		-		-	0.000	0.100	

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Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			Target Value of Contract	
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		
Operational Test & Eval AAR-47														
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	-	0.979	Jan 2011	2.592	Dec 2011	-		2.592	Continuing	Continuing	Continuing	
Flight Test- IDECM	WR	NAWCWD:China Lake, CA	-	-		8.646	Dec 2011	-		8.646	0.000	8.646		
Subtotal			7.186	0.979		11.715		-		11.715				

Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			Target Value of Contract
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	
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 Srvs-IDECM (Non-FFRDC)	SS/CPFF	Amelex:California, MD	0.404	0.165	Jan 2011	-		-		-	0.000	0.569	0.569
Prog Mgmt Supt - IDECM	WR	Various:Various	19.882	0.521	Dec 2010	0.537	Dec 2011	-		0.537	0.000	20.940	
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	0.305	0.150	Oct 2010	0.150	Oct 2011	-		0.150	Continuing	Continuing	Continuing

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Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	1.150	1.806	Dec 2010	1.801	Dec 2011	-		1.801	Continuing	Continuing	Continuing
Eng/Log Supt - IDECM	WR	Various:Various	2.299	3.171	Dec 2010	4.697	Dec 2011	-		4.697	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	0.236	0.243	Dec 2010	0.250	Dec 2011	-		0.250	0.000	0.729	0.729
Eng & Tech Svcs (Non-FFRDC)	SS/CPFF	COTF:Norfolk, VA	0.335	0.375	Feb 2011	0.400	Dec 2011	-		0.400	0.000	1.110	1.110
Subtotal			70.407	6.431		7.835		-		7.835			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy							DATE: February 2011		
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 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	323.791	51.733	62.100	-	62.100				

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
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 2012 Navy		DATE: February 2011
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 2012 Navy		DATE: February 2011
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	3	2011	3	2011
Acquisition Milestones: IDECM Block 3 Milestones: IDECM Block 3 Initial Operating Capability (IOC)	3	2011	3	2011
Acquisition Milestones: IDECM Block 4 Milestones: IDECM Block 4 Eng & Mfg Development (EMD) Award	1	2010	1	2010
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) 1	2	2010	2	2010
Acquisition Milestones: Program Reviews: IDECM Block 4 In-Process Review (IPR) 2	4	2010	4	2010
Acquisition Milestones: Program Reviews: IDECM Block 4 In-Process Review (IPR) 3	1	2012	1	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	2010	3	2014
Systems Development: IDECM Block 4 Development: IDECM Block 4 EDM Deliveries (18)	2	2011	3	2012
Systems Development: System Development Reviews: IDECM Block 4 Critical Design Review (CDR)	3	2010	3	2010
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)	1	2012	1	2012

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy **DATE:** February 2011

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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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Systems Development: ALQ-214 SW Improvement Development: ALQ-214 SW Improvement Development	1	2012	1	2015
Test and Evaluation: IDECM B-3 Verification of Correction of Deficiencies Testing: IDECM Block 3 VCD DT Flight Testing	1	2010	1	2011
Test and Evaluation: IDECM B-3 Verification of Correction of Deficiencies Testing: IDECM Block 3 VCD OT Flight Test	2	2010	2	2011
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) 7	2	2010	2	2010
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 Low Rate Initial Production (LRIP) 6	3	2010	3	2010
	2	2011	2	2011

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
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>

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Production Milestones: IDECM Block 3 Contract Awards: IDECM Block 3 Full Rate Production (FRP) 1				
Production Milestones: IDECM Block 3 Contract Awards: IDECM Block 3 Full Rate Production (FRP) 2	2	2012	2	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
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	3	2013	3	2013
Production Milestones: IDECM Block 4 Contract Awards: IDECM Block 4 Full Rate Production (FRP) 11	3	2014	3	2014
Production Milestones: IDECM Block 4 Contract Awards: IDECM Block 4 Full Rate Production (FRP) 12	3	2015	3	2015
Production Milestones: IDECM Block 4 Contract Awards: IDECM Block 4 Full Rate Production (FRP) 13	3	2016	3	2016
Deliveries: IDECM Block 2: IDECM Block 2 FRP 4 Deliveries (13)	1	2010	1	2010
Deliveries: IDECM Block 2: IDECM Block 2 FRP 5 Deliveries (17)	2	2010	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

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
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>

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Deliveries: IDECM Block 3: IDECM Block 3 LRIP 4 Deliveries (150)	1	2010	1	2011
Deliveries: IDECM Block 3: IDECM Block 3 LRIP 5 Deliveries (251)	4	2010	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 (320)	3	2012	3	2013
Deliveries: IDECM Block 3: IDECM Block 3 FRP 2 Deliveries (343)	3	2013	3	2014
Deliveries: IDECM Block 3: IDECM Block 3 FRP 3 Deliveries (344)	3	2014	3	2015
Deliveries: IDECM Block 3: IDECM Block 3 FRP 4 Deliveries (370)	3	2015	3	2016
Deliveries: IDECM Block 3: IDECM Block 3 FRP 5 Deliveries (380)	3	2016	4	2016
Deliveries: IDECM Block 4: IDECM Block 4 FRP 9 Deliveries (20)	2	2014	2	2015
Deliveries: IDECM Block 4: IDECM Block 4 FRP 10 Deliveries (24)	2	2015	2	2016
Deliveries: IDECM Block 4: IDECM Block 4 FRP 11 Deliveries (31)	2	2016	4	2016

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy **DATE:** February 2011

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 2260: <i>Specific Emitter ID</i>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
2260: <i>Specific Emitter ID</i>	0.690	-	-	-	-	-	-	-	-	0.000	0.690
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This project supports systems development and collection of Specific Emitter Identification (SEI) information from National Technical Means (NTM) to track commercial ships over 200 gross registered tons world-wide. Research and development will cover improvements and enhancements to Electronic Intelligence technology. This will include improved/next generation SEI technology for miniaturization and automation of hardware, national collection systems, signal processing and analysis, and de-interleaving of signals. Propagation in a multi-path signal environment will also be assessed. All work on this project will be undertaken in pursuit of goals stated by the Office of Naval Intelligence and the National Security Agency in support of the Worldwide Ship Tracking Program.

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

	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p>Title: SENSOR FUSION</p> <p align="right">Articles:</p> <p>Description: This effort supports systems development and information fusion of improved SEI technology for automation of hardware, national collection systems, signal processing and analysis, and de-interleaving of signals.</p> <p>FY 2010 Accomplishments: Continue all efforts of FY09.</p>	0.198 0	-	-	-	-
<p>Title: SYSTEM AUTOMATION</p> <p align="right">Articles:</p> <p>Description: This effort supports development of an autonomous surveillance system capable of providing emitter signal information to a central location.</p> <p>FY 2010 Accomplishments: Continue all efforts of FY09.</p>	0.245 0	-	-	-	-
<p>Title: TECHNOLOGY REFRESH & COMMUNICATION ENHANCEMENT</p> <p align="right">Articles:</p> <p>Description: This effort improves SEI system performance, real-time communication and tactical use of SEI which will be expanded with next generation SEI technology.</p>	0.247 0	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy	DATE: February 2011
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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 2260: <i>Specific Emitter ID</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<i>FY 2010 Accomplishments:</i> Continue all efforts of FY09.					
Accomplishments/Planned Programs Subtotals	0.690	-	-	-	-

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

Project moves to PE 0304270N starting FY 2011.

E. Performance Metrics

1. SEI information on thirty to fifty thousand ships per year are entered into the intelligence database.
2. System reliability increases of 10% each year are anticipated under the current funding level.
3. Two technical and software upgrades are accomplished each year that significantly enhance the SEI system's overall effectiveness.
4. It is estimated that one collection site per year can be fully automated increasing the systems effectiveness.
5. Continue developing and deploying techniques to increase capability for evolving radar types
6. Additional details can be described in a classified environment.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy **DATE:** February 2011

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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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3327: <i>MAGTF EW Aviation Development</i>	-	-	5.312	5.600	10.912	1.359	1.058	0.871	0.686	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 unit supports USMC development of Marine Air Ground Task Force (MAGTF) Electronic Warfare (EW) and the various elements of its distributed system of systems (SoS) 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 air and ground MAGTF 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 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
<p>Title: MAGTF EW Software Reprogrammable Payload</p> <p align="right">Articles:</p> <p>FY 2012 Base Plans: MAGTF EW RDT&E will focus on Software Reprogrammable Payload and Collaborative On-line Reconnaissance Operationally Responsive Attack Link (CORPORAL) transition from its Joint Capabilities Technology Demonstration.</p>	-	-	5.312 0	-	5.312 0
<p>Title: Intrepid Tiger II (ALQ-231)</p> <p align="right">Articles:</p> <p>FY 2012 Base Plans: N/A</p> <p>FY 2012 OCO Plans: This project develops integration between Intrepid Tiger II (ALQ-231) and USMC platforms including F/A-18, AV-8B, and the Unmanned Air System (UAS). Initiation of incremental capability improvements and maintenance of threat effectiveness to Area of Regard defined threat sets employs fleet operator and</p>	-	-	-	5.600 0	5.600 0

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy **DATE:** February 2011

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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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
CORPORAL utility assessment inputs. The project fully establishes initial supportability and maintenance concepts.					
Accomplishments/Planned Programs Subtotals	-	-	5.312	5.600	10.912

C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• 0587: <i>MAGTF EW for Aviation</i>	0.000	0.000	0.489	0.000	0.489	2.083	4.382	8.882	2.982	22.136	40.954

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 (SRP), Intrepid Tiger II (ALQ-231), and CORPORAL. 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 similar capabilities by 2019.

E. Performance Metrics
Successful completion Intrepid Tiger II (ALQ 231) EDM Lot 1 DT/OT.
Delivery of final EDM test articles prior to FOC.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

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 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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:Various	-	-		-		1.660	Nov 2011	1.660	0.000	1.660	
Systems Engineering	WR	NSWC:Various	-	-		-		0.200	Dec 2011	0.200	0.000	0.200	
Systems Engineering	WR	Naval Research Lab:Washington, DC	-	-		5.312	Dec 2011	-		5.312	4.100	9.412	
Subtotal			-	-		5.312		1.860		7.172	4.100	11.272	

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	Dec 2011	1.440	0.000	1.440	1.440
Subtotal			-	-		-		1.440		1.440	0.000	1.440	1.440

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	1.600	0.000	1.600	
Flight Testing	WR	NAWCWD:China Lake, CA	-	-		-		0.700	Nov 2011	0.700	0.000	0.700	
Subtotal			-	-		-		2.300		2.300	0.000	2.300	

			Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total		Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			-	-		5.312		5.600		10.912	4.100	15.012		

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
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 2012 Navy		DATE: February 2011
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>Intrepid Tiger II (ALQ-231)</i>				
Acquisition Milestones: Milestones: FOC	3	2013	3	2013
Test & Evaluation: Operational Evaluation: DT/OT (EDM Lot 1)	4	2010	1	2011
Test & Evaluation: Operational Evaluation: DT/OT (EDM Lot 2)	3	2011	4	2011
Deliveries: EDM Lot 1 Deliveries (Qty 5)	3	2010	4	2010
Deliveries: EDM Lot 2 Deliveries (Qty 6)	2	2011	3	2011
Deliveries: EDM Lot 3 Deliveries (Qty 18)	2	2012	2	2013

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy **DATE:** February 2011

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 9999: <i>Congressional Adds</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
9999: <i>Congressional Adds</i>	7.967	-	-	-	-	-	-	-	-	0.000	7.967
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Congressional Add.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2010	FY 2011
Congressional Add: F/A18 Countermeasures Improvement	3.983	-
FY 2010 Accomplishments: Additional funding to integrate improved countermeasure equipment and Mission Computer upgrades so that Navy and Marine Corps aircrew have the combat capabilities they need to survive and succeed against modern threats.		
Congressional Add: Small Survivable Jammer	0.797	-
FY 2010 Accomplishments: These funds were used for investigation of EW and jamming technology that could potentially be incorporated into an Unmanned Aerial System.		
Congressional Add: PT Mugu Electronic Warfare Lab Upgrade	3.187	-
FY 2010 Accomplishments: Upgraded laboratory equipment and facilities necessary to develop a Naval Air Warfare Center Weapons Division Point Mugu laboratory facility modernization.		
Congressional Adds Subtotals	7.967	-

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

Not required for Congressional Adds.

E. Performance Metrics

Not required for Congressional Adds.