

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</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
Total Program Element	346.194	171.132	110.994	-	110.994	78.551	66.627	42.141	54.773	Continuing	Continuing
3051: <i>E-2C RMP</i>	346.194	171.132	110.994	-	110.994	78.551	66.627	42.141	54.773	Continuing	Continuing

A. Mission Description and Budget Item Justification

The E-2D Advanced Hawkeye (AHE) program develops, demonstrates, tests, and procures the replacement of the AN/APS-145 radar system and other aircraft system components including Cooperative Engagement Capability Pre-Planned Product Improvement and Dual Transmit Satellite Communications that modernize the E-2 weapon system to maintain open ocean mission capability while providing the United States Navy with an effective littoral surveillance, battle management, and Theater Air and Missile Defense (TAMD) capability. Key radar technologies are Space-Time Adaptive Processing, Electronically Scanning Array, solid state transmitter, high dynamic range digital receivers and Identification Friend or Foe (IFF)/radar aperture integration. The resultant detection system will provide a substantially improved overland performance by correcting current sensor shortfalls and enhancing all current required mission areas, while simultaneously contributing to the emerging TAMD mission requirements. Mode 5/S is an upgrade to the existing IFF System providing the warfighter positive, secure and reliable identification of friendly aircraft, surface and sub-surface platforms. Mode 5/S replaces the National Security Administration de-certified Mode 4 IFF capability, which is no longer effective or suitable for modern military operations. Mode 5/S will support the Joint Initial Operational Capability (IOC) as defined by the Joint Requirements Oversight Council.

This program element was utilized for AHE Radar Modernization Program pre-System Development and Demonstration (Pre-SDD), followed by SDD. Major activities in FY 2009 included continued subsystem and weapon system verification testing, discrepancy report and yellow sheet resolution and on-going risk reduction efforts on the two SDD aircraft. The three pilot production aircraft continue being manufactured on the production line, and Milestone C approval gave authority to enter the production and deployment phase and to procure Low Rate Initial Production lot aircraft. A second Operational Assessment on SDD aircraft will be conducted in FY 2010, with Initial Operational Test and Evaluation scheduled for FY 2012. IOC is planned for FY 2015.

An In-Flight Refueling (IFR) capability will allow the E-2D AHE to receive fuel from various organic and non-organic tanker aircraft. It provides Expanded Battle Space Surveillance and Targeting through significantly enhanced persistence and increased flexibility (range & endurance). IFR will better enable the E-2D AHE to fully support current Carrier Strike Group /Joint 24/7 Theater Operations by providing more versatile stationing and/or forward basing options. Previous domestic E-2 concept demonstration effort successfully established the feasibility of tanking behind the F/A-18E/F and KC-130 aircraft under E-2 Squadrons, PE 0204152N.

Link-16 Crypto Modernization and frequency remap are required to satisfy the National Security Agency and Federal Aviation Administration mandates. E-2D AHE uses Link-16 to exchange and provide tactical information with other tactical units. The Link-16 Crypto Modernization and frequency remap effort requires the integration of a modified Multifunctional Information Distribution System - Low Volume Terminal (1) terminal and software modification to the E-2D AHE mission computer operational flight program.

FY2012 starts the Guard Radio program. The Ultra High Frequency (UHF) Guard Radio allows the aircrew to monitor the emergency UHF Guard frequency without having to dedicate a specific radio, freeing that radio up for use in the tactical mission. Because of the UHF Tunable Filter Amplifiers, the ARC-210 radios can not

UNCLASSIFIED

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

APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE
1319: <i>Research, Development, Test & Evaluation, Navy</i>	PE 0604234N: <i>Advanced Hawkeye</i>
BA 5: <i>Development & Demonstration (SDD)</i>	

provide continuous UHF guard monitoring, although the internal guard receiver is operational. A separate UHF guard receiver is provided for monitoring the UHF guard (243 MHz) frequency. It is powered by the Guard switch located on the Communication/Control Display Unit Power Panel.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	361.053	171.132	77.067	-	77.067
Current President's Budget	346.194	171.132	110.994	-	110.994
Total Adjustments	-14.859	-	33.927	-	33.927
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-3.200	-			
• SBIR/STTR Transfer	-11.146	-			
• Program Adjustments	-	-	35.242	-	35.242
• Section 219 Reprogramming	-0.504	-	-	-	-
• Rate/Misc Adjustments	-	-	-1.315	-	-1.315
• Congressional General Reductions Adjustments	-0.009	-	-	-	-

Change Summary Explanation

Technical: Not applicable.

Schedule: Updated Pilot Production delivery schedule and LRIP III Production delivery schedule.

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</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
3051: <i>E-2C RMP</i>	346.194	171.132	110.994	-	110.994	78.551	66.627	42.141	54.773	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The E-2D Advanced Hawkeye (AHE) program develops, demonstrates, tests, and procures the replacement of the AN/APS-145 radar system and other aircraft system components including Cooperative Engagement Capability Pre-Planned Product Improvement and Dual Transmit Satellite Communications that modernize the E-2 weapon system to maintain open ocean mission capability while providing the United States Navy with an effective littoral surveillance, battle management, and Theater Air and Missile Defense (TAMD) capability. Key radar technologies are Space-Time Adaptive Processing, Electronically Scanning Array, solid state transmitter, high dynamic range digital receivers and Identification Friend or Foe (IFF)/radar aperture integration. The resultant detection system will provide a substantially improved overland performance by correcting current sensor shortfalls and enhancing all current required mission areas, while simultaneously contributing to the emerging TAMD mission requirements. Mode 5/S is an upgrade to the existing IFF System providing the warfighter positive, secure and reliable identification of friendly aircraft, surface and sub-surface platforms. Mode 5/S replaces the National Security Administration de-certified Mode 4 IFF capability, which is no longer effective or suitable for modern military operations. Mode 5/S will support the Joint Initial Operational Capability (IOC) as defined by the Joint Requirements Oversight Council.

This program element was utilized for AHE Radar Modernization Program pre-System Development and Demonstration (Pre-SDD), followed by SDD. Major activities in FY 2009 included continued subsystem and weapon system verification testing, discrepancy report and yellow sheet resolution and on-going risk reduction efforts on the two SDD aircraft. The three pilot production aircraft continue being manufactured on the production line, and Milestone C approval gave authority to enter the production and deployment phase and to procure Low Rate Initial Production lot aircraft. A second Operational Assessment on SDD aircraft will be conducted in FY 2010, with Initial Operational Test and Evaluation scheduled for FY 2012. IOC is planned for FY 2015.

An In-Flight Refueling (IFR) capability will allow the E-2D AHE to receive fuel from various organic and non-organic tanker aircraft. It provides Expanded Battle Space Surveillance and Targeting through significantly enhanced persistence and increased flexibility (range & endurance). IFR will better enable the E-2D AHE to fully support current Carrier Strike Group /Joint 24/7 Theater Operations by providing more versatile stationing and/or forward basing options. Previous domestic E-2 concept demonstration effort successfully established the feasibility of tanking behind the F/A-18E/F and KC-130 aircraft under E-2 Squadrons, PE 0204152N.

Link-16 Crypto Modernization and frequency remap are required to satisfy the National Security Agency and Federal Aviation Administration mandates. E-2D AHE uses Link-16 to exchange and provide tactical information with other tactical units. The Link-16 Crypto Modernization and frequency remap effort requires the integration of a modified Multifunctional Information Distribution System - Low Volume Terminal (1) terminal and software modification to the E-2D AHE mission computer operational flight program.

FY2012 starts the Guard Radio program. The Ultra High Frequency (UHF) Guard Radio allows the aircrew to monitor the emergency UHF Guard frequency without having to dedicate a specific radio, freeing that radio up for use in the tactical mission. Because of the UHF Tunable Filter Amplifiers, the ARC-210 radios can not

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>
---	--	---

provide continuous UHF guard monitoring, although the internal guard receiver is operational. A separate UHF guard receiver is provided for monitoring the UHF guard (243 MHz) frequency. It is powered by the Guard switch located on the Communication/Control Display Unit Power Panel.

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: System Development and Demonstration</p> <p align="right">Articles:</p> <p>Description: System Development and Demonstration (SD&D) contract with Northrop Grumman Corporation for SD&D and Pilot Production efforts for the E-2D Advanced Hawkeye (AHE) Program.</p> <p>FY 2010 Accomplishments: Continued SD&D, Pilot Production, Cooperative Engagement Capability Pre-Planned Product Improvement, and Dual Transmit Satellite Communications efforts.</p> <p>FY 2011 Plans: Conduct System Functional Qualification Testing, Operational Evaluation (OPEVAL) readiness testing and Production Validation, Weapon System functional and physical configuration audits of Pilot Production aircraft.</p> <p>FY 2012 Base Plans: Conduct OPEVAL.</p>	206.338 0	73.915 0	7.636 0	-	7.636 0
<p>Title: Government Furnished Equipment</p> <p align="right">Articles:</p> <p>Description: Government Furnished Equipment (GFE) for the Pilot Production aircraft and other AHE efforts.</p> <p>FY 2010 Accomplishments: Funded GFE for the Naval Integrated Fire Control-Counter Air (NIFC-CA) Test and Evaluation effort.</p> <p>FY 2011 Plans: Funds GFE for the NIFC-CA Test and Evaluation effort.</p>	3.193 0	1.208 0	-	-	-
<p>Title: Naval Air Warfare Center Aircraft Division Engineering and Test Support</p> <p align="right">Articles:</p> <p>Description: Fund Government Engineering, Contractor Engineering, and Classified Engineering Support. Perform Government oversight. Execute test program risk reduction efforts.</p> <p>FY 2010 Accomplishments:</p>	38.047 0	40.785 0	61.281 0	-	61.281 0

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>
---	--	---

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
---	----------------	----------------	---------------------	--------------------	----------------------

Funded the continuation of developmental testing including radar performance testing, remaining full system integration testing. Continue Weapon System Specification Verification for resolution of deficiencies prior to OPEVAL.

FY 2011 Plans:

Funds the continuation of developmental testing including radar performance testing, remaining full system integration testing, and NIFC-CA AHE efforts. Continue Weapon System Specification Verification for resolution of deficiencies prior to OPEVAL.

FY 2012 Base Plans:

Funding is for OPEVAL, NIFC-CA AHE, In-Flight Refueling (IFR) and Follow-On Test & Evaluation efforts.

Title: NC-130H/E-2D Classified Programs

Articles:

35.353	3.250	0.802	-	0.802
0	0	0		0

Description: Provides support for the E-2D AHE Classified Development efforts.

FY 2010 Accomplishments:

Funded E-2D AHE Classified Development efforts.

FY 2011 Plans:

Funds the continuation of E-2D AHE Classified Development efforts.

FY 2012 Base Plans:

Funding is for the continuation of E-2D AHE Classified Development efforts.

Title: Trainers

Articles:

43.977	25.193	14.152	-	14.152
0	0	0		0

Description: Funds the design, development and delivery of the trainers in support of the E-2D AHE program.

FY 2010 Accomplishments:

Funded the development of the Weapons System Trainer (WST) and the Operational Flight Trainer (OFT), also funds the design of the Simulated Maintenance Trainer.

FY 2011 Plans:

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Funds the development of the WST and the Simulated Maintenance Trainer, also funds the delivery of the OFT.						
FY 2012 Base Plans: Funding is for the development of the WST and the Simulated Maintenance Trainer, also funds the delivery of the OFT.						
Title: Mode 5/S		19.286	26.781	20.077	-	20.077
	Articles:	0	0	0		0
Description: Mode 5/S is the replacement/upgrade to the existing identification Friend or Foe (IFF) system.						
FY 2010 Accomplishments: Funded the system development of IFF Mode 5/S technology into the E-2D AHE IFF Interrogator mission equipment. Emphasis will be on software development for both the IFF Enclosure and the Mission Computer.						
FY 2011 Plans: Funds system development, integration and testing to support the incorporation of IFF Mode 5/S technology into the E-2D AHE IFF Interrogator mission equipment. Integration testing will include laboratory, ground and flight tests.						
FY 2012 Base Plans: Funding is for system development, integration and testing to support the incorporation of IFF Mode 5/S technology into the E-2D AHE IFF Interrogator mission equipment. Integration testing will include laboratory, ground and flight tests.						
Title: In-Flight Refueling		-	-	5.148	-	5.148
	Articles:			0		0
Description: Funds the system development and testing to support the incorporation of IFR capability into the E-2D AHE aircraft. Emphasis during system development is on system redesign, air vehicle design, human systems integration and design, including interior/lighting modifications and seat replacement. Flight testing is required to evaluate field of view, thermal and aerodynamic loads, kinematic performance, and handling qualities.						
FY 2012 Base Plans:						

UNCLASSIFIED

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>
---	--	---

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Funding is for the system development efforts.					
Title: Guard Radio <div style="text-align: right;">Articles:</div>	-	-	1.898 0	-	1.898 0
Description: The Ultra High Frequency (UHF) Guard Radio allows the aircrew to monitor the emergency UHF Guard frequency without having to dedicate a specific radio, freeing that radio up for use in the tactical mission. Due to the UHF Tunable Filter Amplifiers, the ARC-210 radios can not provide continuous UHF guard monitoring, although the internal guard receiver is operational. A separate UHF guard receiver is provided for monitoring the UHF guard (243 MHz) frequency. It is powered by the Guard switch located on the Communication/Control Display Unit Power Panel.					
FY 2012 Base Plans: Funding is for engineering efforts and system integration.					
Accomplishments/Planned Programs Subtotals	346.194	171.132	110.994	-	110.994

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/0195 : <i>E-2D AHE</i>	742.061	937.803	1,072.834	163.500	1,236.334	1,308.850	1,599.492	1,398.859	1,417.059	4,605.325	13,731.882
• APN/0605: <i>Initial Spares - E-2</i>	37.775	23.618	38.712	0.000	38.712	50.178	31.355	30.239	28.591	106.090	404.733
• APN/0544: <i>E-2 Series (Includes OSIPs 008-14 Dual Transmit SATCOM, 009-14 Mode 5/S, and 011-14 E-2D Avionics)</i>	0.000	0.000	0.000	0.000	0.000	0.000	9.945	13.781	14.669	43.658	82.053

D. Acquisition Strategy
 Acquisition Strategy was signed by Milestone Decision Authority, Under Secretary of Defense for Acquisition, Technology and Logistics on 29 Dec 2008. Milestone C approval to proceed into Production and Deployment was given 11 June 2009 by the Defense Acquisition Board (DAB).

E. Performance Metrics
 Successfully receive a DAB decision for approval to procure Low Rate Initial Production Lots III and IV. Successfully conduct an Operational Test Readiness Review for entrance into OPEVAL.

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>
---	--	---

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	SS/CPAF	Northrop Grumman Corporation (NGC):Bethpage, NY	2,795.059	63.964	Oct 2010	16.306	Oct 2011	-		16.306	88.109	2,963.438	2,963.438
Primary Hardware - In Flight Refueling	TBD	NGC:Bethpage, NY	-	-		5.148	May 2012	-		5.148	29.317	34.465	34.465
Training Development	C/CPAF	Rockwell Collins:Cedar Rapids, IA	77.508	22.961	May 2011	13.183	May 2012	-		13.183	1.966	115.618	115.618
Training Development	C/CPAF	Lockheed Martin:Liverpool, NY	5.694	1.040	May 2011	0.238	May 2012	-		0.238	0.000	6.972	6.972
Systems Engineering	PO	Navy Syst Mgt Activity:Arlington, VA	156.282	3.250	Mar 2011	0.800	Mar 2012	-		0.800	0.500	160.832	
Government Furnished Equipment (GFE)	C/CPAF	Naval Sea Systems Command:WNY, DC	17.545	3.192	Mar 2011	-		-		-	0.000	20.737	20.737
GFE	Various	Various:Various	31.301	1.208	Jan 2011	-		-		-	1.199	33.708	
Award Fees	SS/CPAF	NGC:Bethpage, NY	137.128	2.820	Aug 2011	-		-		-	0.000	139.948	139.948
Prior Year Costs No Longer Funded in FYDP	Various	Various:Various	150.497	-		-		-		-	0.000	150.497	
Subtotal			3,371.014	98.435		35.675		-		35.675	121.091	3,626.215	

Remarks
 Totals may not add due to rounding.
 Award Fee:
 Period 1 FY04 - 90% Period 5 FY06 - 100%
 Period 2 FY04 - 91% Period 6 FY07 - 95%
 Period 3 FY05 - 80% Period 7 FY08 - 94%
 Period 4 FY06 - 94% Period 8 FY09 - 93%
 Period 9 FY09 - 95% Period 9 FY10 - 95%

Changes made to Product Development: Corrected Training Development funding between Rockwell Collins and Lockheed Martin. Government Furnished Equipment (GFE) procured in FY 10 instead of FY11 for Cooperative Engagement Capability - long lead item.
 GFE - various contractors and award dates throughout the fiscal year.

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>
---	--	---

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	Various	Various:Various	9.400	0.257	Dec 2010	-		-		-	1.228	10.885	
Software Development	SS/CPIF	NGC:Bethpage, NY	17.626	18.003	Apr 2011	14.171	Apr 2012	-		14.171	12.013	61.813	61.813
Integrated Logistics Support	Various	Various:Various	6.131	1.694	Dec 2010	1.104	Nov 2011	-		1.104	3.939	12.868	
Government Engineering Sup	WR	Naval Air Warfare Center Aircraft Division (NAWCAD:Pax River, MD)	77.206	8.876	Nov 2010	3.613	Nov 2011	-		3.613	11.802	101.497	
Government Engineering Sup	WR	Naval Air Warfare Center Training Systems Division:Orlando, FL	8.010	1.394	Nov 2010	0.731	Nov 2011	-		0.731	0.000	10.135	
Government Engineering Sup	Various	Various:Various	11.206	1.023	Nov 2010	0.503	Nov 2011	-		0.503	2.346	15.078	
Government Engineering Sup	WR	NAWCAD:Lakehurst, NJ	3.137	0.617	Nov 2010	-		-		-	0.000	3.754	
Contractor Engineering Supt Engineering Technical Services (ETS)	Various	Various:Various	7.868	1.339	Dec 2010	-		-		-	0.000	9.207	
Contractor Engineering Supt ETS	C/CPFF	Wyle Labs:Huntsville, AL	20.873	2.441	Dec 2010	2.442	Dec 2011	-		2.442	0.807	26.563	26.563
Contractor Engineering Supt ETS	C/CPFF	Deloitte:Lexington Park, MD	3.356	0.834	Dec 2010	0.427	Dec 2011	-		0.427	0.000	4.617	4.617
Technical Data	Various	Various:Various	0.133	-		0.200	Mar 2012	-		0.200	2.372	2.705	
Configuration Management	TBD	Various:Various	-	-		0.125	Dec 2011	-		0.125	0.650	0.775	
Prior Year Costs No Longer Funded in FYDP	Various	Various:Various	18.315	-		-		-		-	0.000	18.315	
Integrated Logistics Support	TBD	NGC:Bethpage, NY	-	-		0.030	Mar 2012	-		0.030	1.976	2.006	2.006
Subtotal			183.261	36.478		23.346		-		23.346	37.133	280.218	

Remarks
 Totals may not add due to rounding.
 Development Support, Integrated Logistics Support, Government Engineering Support, Contractor Engineering Support, Technical Data and Configuration Management - various contractors and award dates throughout the fiscal year.

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>
---	--	---

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 (T&E)	WR	NAWCAD:Pax River, MD	52.524	12.879	Nov 2010	9.097	Nov 2011	-		9.097	49.649	124.149	
Developmental T & E	Various	Various:Various	24.474	10.239	Dec 2010	1.411	Dec 2011	-		1.411	8.357	44.481	
Developmental T & E 1	TBD	Various:Various	-	-		7.658	Mar 2012	-		7.658	30.952	38.610	
Developmental T&E ETS	C/CPFF	Wyle Labs:Huntsville, AL	6.193	2.384	Dec 2010	2.972	Dec 2011	-		2.972	2.460	14.009	14.009
Developmental T&E ETS	Various	Various:Various	1.996	0.704	Dec 2010	2.097	Dec 2011	-		2.097	0.000	4.797	
Developmental T&E ETS	C/FFP	L-3 Communications:Newport News, VA	4.957	2.066	Dec 2010	1.809	Dec 2011	-		1.809	2.225	11.057	11.057
Operational T & E	WR	NAWCAD:Pax River, MD	0.146	-		23.862	Nov 2011	-		23.862	5.450	29.458	
Operational T & E	Various	Various:Various	1.917	2.356	Dec 2010	0.759	Dec 2011	-		0.759	1.663	6.695	
Test Assets	SS/CPAF	NGC:Bethpage, NY	3.900	-		0.199	Mar 2012	-		0.199	12.166	16.265	16.265
Prior Year Costs No Longer Funded in FYDP	Various	Various:Various	7.865	-		-		-		-	0.000	7.865	
Subtotal			103.972	30.628		49.864		-		49.864	112.922	297.386	

Remarks

Totals may not add due to rounding.
Developmental Test & Evaluation (T&E), Developmental T&E, Engineering & Technical Services and Operational T&E - various contractors and award dates throughout the fiscal year.

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
Contractor Engineering Support Management & Professional Support Services (MSS)	Various	Various:Various	1.705	0.941	Dec 2010	0.903	Dec 2011	-		0.903	0.000	3.549	
Contractor Engineering Support MSS	C/CPFF	Wyle Labs:Huntsville, AL	9.779	1.399	Dec 2010	0.345	Dec 2011	-		0.345	0.000	11.523	11.523

UNCLASSIFIED

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>
---	--	---

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
Government Engineering Support	WR	NAWCAD:Pax River, MD	8.994	2.082	Nov 2010	0.610	Nov 2011	-		0.610	1.358	13.044	
Government Engineering Support	Various	Various:Various	14.458	0.317	Nov 2010	-		-		-	0.000	14.775	
Program Management Support	Various	Various:Various	1.920	0.752	Nov 2010	0.095	Nov 2011	-		0.095	0.180	2.947	
Travel	Various	Various:Various	2.144	0.100	Oct 2010	0.156	Oct 2011	-		0.156	0.546	2.946	
Prior Year Costs No Longer Funded in FYDP	Various	Various:Various	26.174	-		-		-		-	0.000	26.174	
Subtotal			65.174	5.591		2.109		-		2.109	2.084	74.958	

Remarks
Totals may not add due to rounding.
Contractor Engineering Support, Government Engineering Support, Program Support and Travel - various contractors and/or award dates throughout the fiscal year.

	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	3,723.421	171.132		110.994		-		110.994	273.230	4,278.777	

Remarks
Totals may not add due to rounding.

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>

--	--	--

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>

--	--	--

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>

--	--	--

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>

--	--	--

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
E-2C RMP				
Acquistion Milestones: Milestones: Acquistion Milestones - Overarching Integrated Product Team	2	2010	2	2010
Acquistion Milestones: Milestones: Acquistion Milestones - Defense Acquisition Board	2	2011	2	2011
Acquistion Milestones: Milestones: Acquistion Milestones - Full Rate Production (FRP)	1	2013	1	2013
Acquistion Milestones: Milestones: Acquistion Milestones - Initial Operational Capabilities	1	2015	1	2015
Test & Evaluation: Technical Evaluation: Test & Evaluation Milestones - Development Test - System Development & Demonstration #1 & 2	1	2010	4	2011
Test & Evaluation: Technical Evaluation: Test & Evaluation Milestones - Developmental Test (DT)/DT Assist - Pilot Production	4	2010	4	2011
Test & Evaluation: Operational Evaluation: Test & Evaluation Milestones - Operational Assessment #2	4	2010	4	2010
Test & Evaluation: Operational Evaluation: Test & Evaluation Milestones - Operational Test - Readiness Review	4	2011	4	2011
Test & Evaluation: Operational Evaluation: Test & Evaluation Milestones - Operational Evaluation	1	2012	2	2012
Test & Evaluation: Operational Evaluation: Follow On Test & Evaluation	1	2012	4	2016
Production Milestones: Contract Awards: Production Milestones - Low Rate Initial Production (LRIP) II Contract Award (CA) (3 A/C APN)	2	2010	2	2010
Production Milestones: Contract Awards: Production Milestones - LRIP III CA (4 A/C APN)	3	2011	3	2011
Production Milestones: Contract Awards: Production Milestones - LRIP IV CA (6 A/C APN)	2	2012	2	2012
Production Milestones: Contract Awards: Production Milestones - FRP CA	3	2013	3	2013

UNCLASSIFIED

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Production Milestones: Contract Awards: Production Milestones - FRP Lot II CA	2	2014	2	2014
Production Milestones: Contract Awards: Production Milestones - FRP Lot III CA	2	2015	2	2015
Production Milestones: Contract Awards: Production Milestones - FRP Lot IV CA	2	2016	2	2016
Deliveries: Production Deliveries - Pilot Production (3 A/C)	3	2010	1	2011
Deliveries: Production Deliveries - LRIP I (2 A/C APN)	4	2011	1	2012
Deliveries: Production Deliveries - LRIP II (3 A/C APN)	3	2012	2	2013
Deliveries: Production Deliveries - LRIP III (4 A/C APN)	3	2013	2	2014
Deliveries: Production Deliveries - LRIP IV (6 A/C APN)	3	2014	2	2015
Deliveries: Production Deliveries - FRP I (7 A/C)	2	2015	1	2016
Deliveries: Production Deliveries - FRP II (8 A/C)	2	2016	4	2016
E-2C RMP IFR				
System Development: Hardware/Software Development: In-Flight Refueling - Valve Trade Study	1	2012	1	2013
System Development: Hardware/Software Development: In-Flight Refueling - Engineering & Manufacturing Development	1	2012	4	2016
System Development: Reviews: In-Flight Refueling - System Requirements Review2/ System Functional Review	1	2012	1	2012
System Development: Reviews: In-Flight Refueling - Preliminary Design Review	2	2014	2	2014
System Development: Reviews: In-Flight Refueling - Critical Design Review	2	2015	2	2015
System Development: Reviews: In-Flight Refueling - Functional Readiness Review	1	2016	1	2016
System Development: Reviews: In-Flight Refueling - Early Operational Assessment	3	2016	3	2016
System Development: Reviews: In-Flight Refueling - Operational Test - Readiness Review	4	2016	4	2016
Test & Evaluation: Technical Evaluation: In-Flight Refueling - SIL Test	4	2014	2	2015
Test & Evaluation: Technical Evaluation: In-Flight Refueling - Fuel Rig Test	1	2015	4	2015

UNCLASSIFIED

UNCLASSIFIED

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 0604234N: <i>Advanced Hawkeye</i>	PROJECT 3051: <i>E-2C RMP</i>

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Test & Evaluation: Technical Evaluation: In-Flight Refueling - Instrumentation/Aircraft Mod	3	2015	1	2016
Test & Evaluation: Technical Evaluation: In-Flight Refueling - First Flight	1	2016	1	2016
<i>E-2C RMP Link 16 Crypto Modernization</i>				
System Development: Hardware Development: Link-16 Crypto Modernization - Multifunctional Information Distribution System Hardware Procurement	2	2013	3	2014
System Development: Software Development: Link-16 Crypto Modernization - Software Development	2	2014	1	2015
System Development: Software Development: Link-16 Crypto Modernization - System Integration Laboratory (SIL) Integration	4	2014	2	2015
Test & Evaluation: Technical Evaluation: Link-16 Crypto Modernization - Flight Test	2	2015	1	2016
Test & Evaluation: Technical Evaluation: Link-16 Crypto Modernization - Validation (VAL)	2	2016	2	2016
Test & Evaluation: Technical Evaluation: Link-16 Crypto Modernization - Verification (VER)	3	2016	3	2016
<i>E-2C RMP Guard Radio</i>				
System Development: Hardware Development: Guard Radio - System Integration Design	3	2012	4	2013
Test & Evaluation: Technical Evaluation: Guard Radio - SIL Integration & Test	3	2013	4	2014
Test & Evaluation: Technical Evaluation: Guard Radio - VAL	3	2014	3	2014
Test & Evaluation: Technical Evaluation: Guard Radio - Flight Test	4	2014	2	2015

UNCLASSIFIED