Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0204152N: E-2 Squadrons

BA 7: Operational Systems Development

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	52.327	62.796	19.011	0.000	19.011	15.047	2.231	0.000	0.000	0.000	305.091
0463: E2C Improvements	52.327	62.796	19.011	0.000	19.011	15.047	2.231	0.000	0.000	0.000	305.091

A. Mission Description and Budget Item Justification

E-2 Improvements (0463) provides for incorporation of technologies for the evolution of E-2 Battle Management and Command and Control (BMC2) capabilities in support of naval warfare command and control requirements. It funds developments for the modification or replacement of Weapon Replaceable Assemblies (WRAs) of currently installed subsystems, as well as providing for experimentation with narrowband and wideband internet protocol (IP) concepts, to include technologies such as High Frequency (HF) Secure IP Router Network (HF SIPRNET), VRC-99 digital IP radio as a surrogate to the Joint Tactical Radio System, machine-to-machine digital data communications, Advanced Digital Networking System (ADNS), Tactical Information Services (TIS), cooperative and non-cooperative identification, and open architecture hardware and software computing environments. These efforts have laid the foundation for growth to provide additional functional capabilities satisfying evolving operational requirements, e.g., Airborne Networking, Joint Sensor Netting and Track Management, Tactical Decision Aids, Advanced communications, and permits the evolutionary growth of a Combat Identification (CID) and Theater Air and Missile Defense (TAMD) Capability.

A Core Open Architecture capability will modernize existing Mission Computer (MC) and Operational Flight Program (OFP) architecture, preserve interfaces to future E-2 weapon systems modification, simplify maintenance and upgrades of memory and operating systems (hardware/software independence), add an improved networking backbone to quickly field future interoperable warfighting applications and utilize open and commercially adopted standards and protocols to the maximum extent possible.

An In Flight Refueling (IFR) capability will allow the E-2 to receive fuel from various organic and strategic 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-2 to fully support current Carrier Strike Group (CSG)/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.

The Automatic Identification System (AIS) is a broadcast transponder system operating in the VHF maritime band for exchange of ship parameters including Registry, Port of Origin, Location, Course, Speed and other vessel characteristics. The current prototype E-2C AIS installation is integrated into the E-2C weapon system without a means to transfer information off board to other platforms/systems.

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

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0204152N: *E-2 Squadrons*

BA 7: Operational Systems Development

FY2010 starts the Radar Improvement Program. This provides funding to develop, and field improvements to APS-145 radar to address reliability and obsolescence and keep them viable until aircraft retirement.

This program element includes \$2.550M for the Defense Acquisition Workforce Development Fund (DAWDF).

B. Program Change Summary (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	53.834	63.058	0.000	0.000	0.000
Current President's Budget	52.327	62.796	19.011	0.000	19.011
Total Adjustments	-1.507	-0.262	19.011	0.000	19.011
 Congressional General Reductions 		-0.262			
 Congressional Directed Reductions 		0.000			
 Congressional Rescissions 	0.000	0.000			
 Congressional Adds 		0.000			
 Congressional Directed Transfers 		0.000			
 Reprogrammings 	0.001	0.000			
 SBIR/STTR Transfer 	-1.508	0.000			
 Program Adjustments 	0.000	0.000	19.011	0.000	19.011

Change Summary Explanation

Technical: Not applicable.

Schedule: Project Unit 0463 - Airborne Battlefield Command and Control (ABC2) efforts now complete in 1Q of FY14. Schedule changes to Core OA are due to contract administration delays and the addition of Trainer Integration. Schedule changes to the High Frequency Internet Protocol are to add Trainers in FY11. Schedule changes to In-Flight Refueling are due to FY09 DAWDF realignment and other miscellaneous adjustments which resulted in a rephasing of the program. Schedule changes to Universal Automatic Identification System are due to the Test Readiness Review being delayed from 1Q of FY10 to 2Q of FY10. Schedule changes to the Radar Improvements Program are due to this program being an FY10 new start and being under a continuing resolution through 1Q of FY10.

FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy PE 0204152N: E-2 Squadrons 0463: E2C Improvements

BA 7: Operational Systems Development

COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
0463: E2C Improvements	52.327	62.796	19.011	0.000	19.011	15.047	2.231	0.000	0.000	0.000	305.091
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

E-2 Improvements (0463) provides for incorporation of technologies for the evolution of E-2 Battle Management and Command and Control (BMC2) capabilities in support of naval warfare command and control requirements. It funds developments for the modification or replacement of Weapon Replaceable Assemblies (WRAs) of currently installed subsystems, as well as providing for experimentation with narrowband and wideband internet protocol (IP) concepts, to include technologies such as High Frequency (HF) Secure IP Router Network (HF SIPRNET), VRC-99 digital IP radio as a surrogate to the Joint Tactical Radio System, machine-to-machine digital data communications, Advanced Digital Networking System (ADNS), Tactical Information Services (TIS), cooperative and non-cooperative identification, and open architecture hardware and software computing environments. These efforts have laid the foundation for growth to provide additional functional capabilities satisfying evolving operational requirements, e.g., Airborne Networking, Joint Sensor Netting and Track Management, Tactical Decision Aids, Advanced communications, and permits the evolutionary growth of a Combat Identification (CID) and Theater Air and Missile Defense (TAMD) Capability.

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

DATE: February 2010

R-1 ITEM NOMENCLATURE
PE 0204152N: E-2 Squadrons

0463: E2C Improvements

FY2010 starts the Radar Improvement Program. This provides funding to develop, and field improvements to APS-145 radar to address reliability and obsolescence and keep them viable until aircraft retirement.

This project unit includes \$2.550M for the Defense Acquisition Workforce Development Fund (DAWDF).

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

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Airborne Battlefield Command and Control (ABC 2)	6.689	5.205	3.564	0.000	3.564
Funds development and demonstration of E-2 airborne Joint Sensor Netting and Track Management (including Network Centric Collaborative Targeting (NCCT)), IP networking concepts (including Advanced Digital Networking Systems, Tactical Information Services, and IP enabled communications systems), machine-to-machine interface, open architecture computing environment, network applications, tactical decision aids, combat identification technologies, on and off-board data fusion capabilities, and advanced mission computer and communications technologies airborne demonstrations.					
FY 2009 Accomplishments: Funded development efforts and Trident Warrior exercise and a Limited Objective Experiment.					
FY 2010 Plans: Funds development efforts and a Joint Expeditionary Force Exercise and a Limited Objective Experiment.					
FY 2011 Base Plans: Funding is for the continuation of development efforts and a Empire Challenge exercise and a Limited Objective Experiment.					
In Flight Refueling (IFR)	5.974	15.189	1.270	0.000	1.270
Funds the system development and testing to support the incorporation of In Flight Refueling (IFR) capability into the E-2 aircraft. Emphasis during system development is on system redesign, air					

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy				DATE: Feb	ruary 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0204152N: E-2 Squadrons		PROJECT 0463: <i>E2C</i>	ECT E2C Improvements				
B. Accomplishments/Planned Program (\$ in Millions)								
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total		
vehicle design, human systems integration and design, includin seat replacement. Flight testing is required to evaluate field of kinematic performance, and handling qualities. FY 2009 Accomplishments: Funded system development efforts.								
FY 2010 Plans: Funds continued system development efforts.								
FY 2011 Base Plans: Funding is for the continuation of system development efforts.								
Universal Automatic Identification System (UAIS)		4.094	4.095	0.000	0.000	0.000		
Funding integrates Universal Automatic Identification System (Usuand provides for a means to transfer Automatic Identification System to the warships. The integration includes non-recurring engineer to integrate UAIS control features and output into the E-2 weap and document the UAIS hardware already installed on E-2 aircridentification technologies complimentary to UAIS into the E-2.	rstem (AIS) data from the aircraft inflight ering, logistics and test and evaluation ons system and to standardize							
FY 2009 Accomplishments: Funded system development efforts.								
FY 2010 Plans: Funds developmental testing for the UAIS system.								
E-2 Core Open Architecture (OA)		25.530	24.415	5.885	0.000	5.885		
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R-1 Line Item #168 Page 5 of 16

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy **DATE:** February 2010 APPROPRIATION/BUDGET ACTIVITY **PROJECT R-1 ITEM NOMENCLATURE** 1319: Research, Development, Test & Evaluation, Navy PE 0204152N: *E-2 Squadrons* 0463: E2C Improvements BA 7: Operational Systems Development

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

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	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Funding supports the development, integration and test of an open architecture distributed computing environment and Internet Protocol networking infrastructure.					
FY 2009 Accomplishments: Funded system development efforts.					
FY 2010 Plans: Funds continued system development efforts and the beginning of the system integration and test.					
FY 2011 Base Plans: Funding is for the continuation of system integration and test and the beginning of Trainer Integration.					
E-2 High Frequency (HF) Internet Protocol (IP)	7.490	4.724	2.114	0.000	2.114
Funds the development, integration and test of High Frequency (HF) radio and Mission Computer hardware and software modifications and additions to provide an E-2 HF digital data communications path, allowing for E-2 connectivity with other HF Internet Protocol (IP) users.					
FY 2009 Accomplishments: Funded system design and code efforts, test assets, and System Integration and Test efforts.					
FY 2010 Plans: Funds continued System Integration and Test efforts and deployment.					
FY 2011 Base Plans: Funding is for HFIP trainers.					
Radar Improvements Program	0.000	9.168	6.178	0.000	6.178

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy	DATE: February 2010		
	R-1 ITEM NOMENCLATURE PE 0204152N: <i>E-2 Squadrons</i>	PROJECT 0463: <i>E2C</i>	Improvements

EV 2044 EV 2044 EV 2044

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

FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
2.550	0.000	0.000	0.000	0.000
52.327	62.796	19.011	0.000	19.011
	2.550	2.550 0.000	EY 2009 FY 2010 Base 2.550 0.000 0.000	FY 2009 FY 2010 Base OCO 2.550 0.000 0.000 0.000

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

			FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	Base	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• APN/0195: <i>E-2D AHE</i>	413.880	742.076	937.803	0.000	937.803	1,076.653	1,320.873	1,570.635	1,544.369	6,761.723	18,156.123
APN/0605: Initial Spares - E-2	58.175	37.884	23.618	0.000	23.618	40.801	36.575	17.135	35.652	149.738	548.500

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0204152N: E-2 Squadrons 0463: E2C Improvements

BA 7: Operational Systems Development

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

		•	FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	<u>Base</u>	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• APN/0544: <i>E-2 Series</i>	24.293	49.952	47.046	0.000	47.046	33.177	28.154	36.565	36.085	138.256	1,614.218

D. Acquisition Strategy

The Core Open Architecture Acquisition Strategy was signed by Milestone Decision Authority (MDA), Program Executive Officer Tactical Aircraft Programs (PEO (T)) on 11 September 2008. The Milestone B decision review is planned for third quarter FY11.

The In-Flight Refueling Acquisition Strategy was signed by the MDA, PEO(T) on 24 October 2008. The Milestone B decision review is planned for fourth quarter FY11.

E. Performance Metrics

Successfully complete Core Open Architecture System Integration and Test and begin Trainer Integration. Successfully develop and deliver Trainers in support of the High Frequency Internet Protocol program. Successfully complete the Pre - SD&D phase, conduct a successful Preliminary Design Review and successfully achieve a Milestone B decision in support of the In Flight Refueling program. Successfully complete developmental testing and deploy the Universal Automatic Identification System. Successfully complete Design Development for the Radar Improvements program and begin ground and flight testing.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development

PE 0204152N: *E-2 Squadrons*

0463: E2C Improvements

Product Development (\$ in Millions)

			FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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 Development1	Various/ Various	Various Various	1.402	0.297		0.000		0.000		0.000	0.000	1.699	Continuing
Primary Hardware Development2	Various/ Various	Various Various	2.375	0.000		0.000		0.000		0.000	0.000	2.375	Continuing
Primary Hardware Development3	Various/ Various	Various Various	1.497	0.000		0.000		0.000		0.000	0.000	1.497	Continuing
Primary Hardware Development	SS/CPFF	NGC NY	1.815	0.540	Dec 2009	0.152	Dec 2010	0.000		0.152	0.000	2.507	2.507
Primary Hardware Development4	Various/ Various	Various Various	6.554	15.467		3.571		0.000		3.571	6.488	32.080	Continuing
Primary Hardware Development	SS/FFP	Lockheed Martin NY	3.641	0.000		0.000		0.000		0.000	0.000	3.641	3.641
Ancillary Hardware Development	Various/ Various	Various Various	0.000	0.260	Jan 2010	0.300	Jan 2011	0.000		0.300	0.440	1.000	Continuing
Aircraft Integration	C/CPFF	NGC NY	2.547	0.997	Jan 2010	0.000		0.000		0.000	0.000	3.544	3.544
Aircraft Integration	Various/ Various	Various Various	0.000	2.100		0.300		0.000		0.300	0.275	2.675	Continuing
Systems Engineering	Various/ Various	Various Various	0.000	0.901	May 2010	0.000		0.000		0.000	0.000	0.901	Continuing
	Subtotal 19.831					4.323		0.000		4.323	7.203	51.919	9.692

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development

PE 0204152N: *E-2 Squadrons*

0463: E2C Improvements

Support (\$ in Millions)

				FY 2	2010	FY 2 Ba		FY 20 OCC		FY 2011 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 Various	1.523	0.701	Dec 2009	0.995	Dec 2010	0.000		0.995	1.066	4.285	Continuing
Software Development1	C/CPFF	Wyle Labs AL	3.661	0.729	Dec 2009	0.726	Dec 2010	0.000		0.726	0.000	5.116	5.116
Software Development2	Various/ Various	Various Various	5.786	1.333		0.538		0.000		0.538	0.000	7.657	Continuing
Software Development3	Various/ Various	Various Various	14.087	21.925		1.814		0.000		1.814	0.000	37.826	Continuing
Engineering & Technical Services	Various/ Various	Various Various	5.478	2.584	Dec 2009	1.865	Dec 2010	0.000		1.865	1.700	11.627	Continuing
Government Engineering Support1	Various/ Various	Various Various	0.516	0.000		0.000		0.000		0.000	0.000	0.516	Continuing
Government Engineering Support2	Various/ Various	Various Various	8.387	1.621	Nov 2009	0.903	Nov 2010	0.000		0.903	1.213	12.124	Continuing
Government Engineering Support3	WR	NAWCAD Pax River, MD	4.737	5.044	Nov 2009	1.725	Nov 2010	0.000		1.725	2.111	13.617	Continuing
Integrated Logistics Support	Various/ Various	Various Various	0.887	1.452	Dec 2009	0.321	Dec 2010	0.000		0.321	0.132	2.792	Continuing
		Subtotal	45.062	35.389		8.887		0.000		8.887	6.222	95.560	5.116

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0204152N: *E-2 Squadrons*

0463: E2C Improvements

BA 7: Operational Systems Development

Test and Evaluation (\$ in Millions)

				FY 2	2010	FY 2 Ba		FY 2		FY 2011 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 & Evaluation1	Various/ Various	Various Various	0.730	0.000		0.000		0.000		0.000	0.000	0.730	Continuing
Developmental Test & Evaluation2	Various/ Various	Various Various	9.233	0.781	Nov 2009	1.047	Nov 2010	0.000		1.047	1.900	12.961	Continuing
Developmental Test & Evaluation3	WR	NAWCAD Pax River, MD	2.642	1.439	Nov 2009	2.137	Nov 2010	0.000		2.137	0.409	6.627	Continuing
Developmental T&E ETS4	Various/ Various	Various Various	1.368	0.199	Dec 2009	0.386	Dec 2010	0.000		0.386	0.132	2.085	Continuing
Test Assets	Various/ Various	Various Various	0.000	0.621		0.000		0.000		0.000	0.000	0.621	Continuing
		Subtotal	13.973	3.040		3.570		0.000		3.570	2.441	23.024	

Remarks

Management Services (\$ in Millions)

				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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 Support1	Various/ Various	Various Various	0.042	0.000		0.000		0.000		0.000	0.000	0.042	Continuing
Government Engineering Support	WR	NAWCAD Pax River, MD	2.646	1.783	Nov 2009	0.869	Nov 2010	0.000		0.869	0.070	5.368	Continuing

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0204152N: *E-2 Squadrons*

0463: E2C Improvements

BA 7: Operational Systems Development

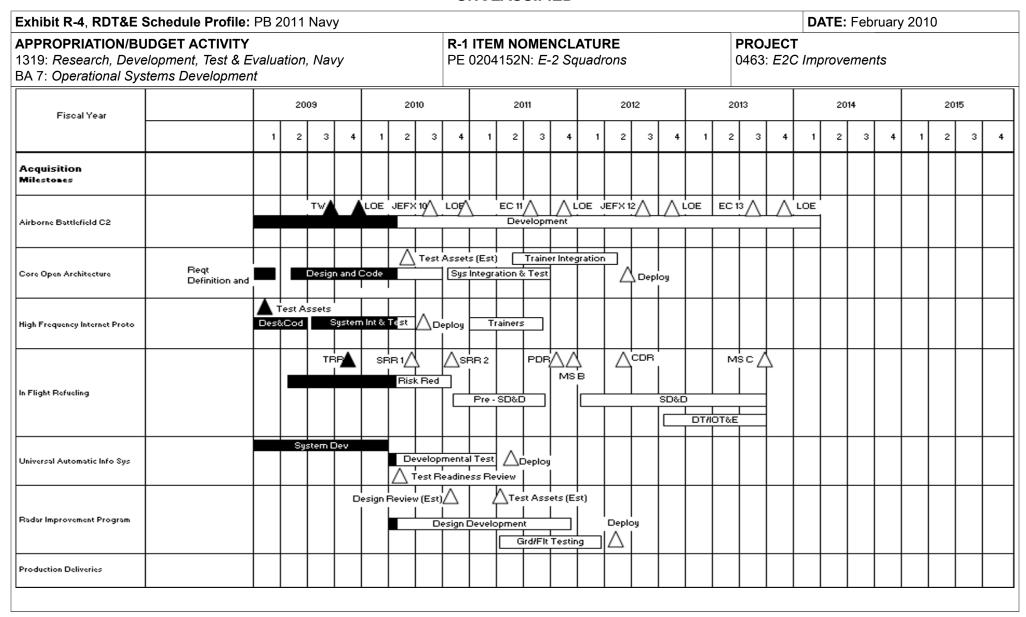
Management Services (\$ in Millions)

				FY 2	2010	FY 2 Ba	2011 se	FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date		Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support1	Various/ Various	Various Various	5.959	0.296	Nov 2009	0.204	Nov 2010	0.000		0.204	0.322	6.781	Continuing
Program Management Support-MSS2	C/CPFF	Wyle Labs AL	1.889	0.182	Dec 2009	0.088	Dec 2010	0.000		0.088	0.000	2.159	2.159
Program Management Support-MSS3	Various/ Various	Various Various	4.028	1.379	Dec 2009	0.985	Dec 2010	0.000		0.985	0.955	7.347	Continuing
Travel	Various/ Various	Various Various	0.538	0.165	Oct 2009	0.085	Oct 2010	0.000		0.085	0.065	0.853	Continuing
DAWDF Realignment	Various/ Various	Various Various	2.550	0.000		0.000		0.000		0.000	0.000	2.550	Continuing
		Subtotal	17.652	3.805		2.231		0.000		2.231	1.412	25.100	2.159

Remarks

	Total Prior Years Cost	FY 2	2010	FY 2 Ba	-	FY 20 ⁻ OCO		Cost To	Total Cost	Target Value of Contract
Project Cost Totals	96.518	62.796		19.011		0.000	19.011	17.278	195.603	16.967

Remarks



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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy PE 0204

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0204152N: *E-2 Squadrons*

PROJECT

0463: E2C Improvements

Schedule Details

	Sta	art	End		
Event	Quarter	Year	Quarter	Year	
Airborne Battlefield C2 - Development	1	2009	1	2014	
Airborne Battlefield C2 - Empire Challenge (EC) FY11	3	2011	3	2011	
Airborne Battlefield C2 - Empire Challenge (EC) FY13	3	2013	3	2013	
Airborne Battlefield C2 - Trident Warrior (TW)	3	2009	3	2009	
Airborne Battlefield C2 - Joint Expeditionary Force Exercise (JEFX) FY10	3	2010	3	2010	
Airborne Battlefield C2 - Joint Expeditionary Force Exercise (JEFX) FY12	3	2012	3	2012	
Airborne Battlefield C2 - Limited Objective Experiment (LOE) FY09	4	2009	4	2009	
Airborne Battlefield C2 - Limited Objective Experiment (LOE) FY10	4	2010	4	2010	
Airborne Battlefield C2 - Limited Objective Experiment (LOE) FY11	4	2011	4	2011	
Airborne Battlefield C2 - Limited Objective Experiment (LOE) FY12	4	2012	4	2012	
Airborne Battlefield C2 - Limited Objective Experiment (LOE) FY13	4	2013	4	2013	
Core Open Arch - Requirements Definition & Analysis	1	2009	1	2009	
Core Open Arch - Design & Code	2	2009	3	2010	
Core Open Arch - Test Asset Delivery (Est.)	2	2010	2	2010	
Core Open Arch - System Integration & Test	4	2010	3	2011	
Core Open Arch - Trainer Integration	2	2011	2	2012	
Core Open Arch - Deploy	2	2012	2	2012	
High Frequency Internet Proto - Design & Code	1	2009	2	2009	

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development

PE 0204152N: *E-2 Squadrons*

0463: E2C Improvements

	Sta	art	End		
Event	Quarter	Year	Quarter	Year	
High Frequency Internet Proto - Test Asset Delivery	1	2009	1	2009	
High Frequency Internet Proto - System Integration & Test	3	2009	2	2010	
High Frequency Internet Proto - Deploy	3	2010	3	2010	
High Frequency Internet Proto - Trainers	1	2011	3	2011	
In Flight Refueling - Risk Reduction	2	2009	4	2010	
In Flight Refueling - Test Readiness Review	4	2009	4	2009	
In Flight Refueling - System Readiness Review (SRR 1)	2	2010	2	2010	
In Flight Refueling - Pre System Development and Demonstration (Pre SD&D)	4	2010	3	2011	
In Flight Refueling - System Readiness Review (SRR 2)	4	2010	4	2010	
In Flight Refueling - Preliminary Design Review (PDR)	4	2011	4	2011	
In Flight Refueling - Acquisition Milestones - Milestone B	4	2011	4	2011	
In Flight Refueling - System Development and Demonstration	1	2012	3	2013	
In Flight Refueling - Developmental Test (DT)/Integrated Operational Test & Evaluation (IOT&E)	4	2012	3	2013	
In Flight Refueling - Critical Design Review (CDR)	2	2012	2	2012	
In Flight Refueling - Acquisition Milestones - Milestone C	3	2013	3	2013	
Universal Automatic Info System - System Development	1	2009	1	2010	
Universal Automatic Info System - Test Readiness Review	2	2010	2	2010	
Universal Automatic Info System - Developmental Testing	2	2010	1	2011	
Universal Automatic Info System - Deploy	2	2011	2	2011	
Radar Improvement Program - Development	2	2010	4	2011	

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0204152N: *E-2 Squadrons*

PROJECT

0463: E2C Improvements

	St	art	En	nd
Event	Quarter	Year	Quarter	Year
Radar Improvement Design Review (Est.)	4	2010	4	2010
Radar Improvement Program - Test Assets (Est.)	2	2011	2	2011
Radar Improvement Program - Ground & Flight Test	2	2011	1	2012
Radar Improvement Program - Deploy	2	2012	2	2012