

CLASSIFICATION:

UNCLASSIFIED

EXHIBIT R-2, RDT&E Budget Item Justification							DATE:	
							February 2004	
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE			
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7					0204152N, E-2 Squadrons			
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost		18.878	19.331	6.055	2.155	1.579	1.586	1.605
0463 - (E-2C Improvements)		8.502	8.749	6.055	2.155	1.579	1.586	1.605
2321 - (E-2 Radar Modernization)		10.376						
9417 - (E-2C Program Support Activity)*			0.989					
9418 - (E-2C Program Support Activity)*			3.461					
9419 - (Non-Cooperative Combat Identification)*			1.682					
9420 - (PMRF Net-Centric Test Bed/Adv. Haw.)*			4.450					
<p>* The FY 2004 budget reflects the following Congressional adds: \$1.0M for E-2C Program Support Activity (PSA) which has been revised by \$.011 for Congressional Undistributed Adjustments; \$3.5M for E-2C PSA (SBIR Phase III) which has been revised by \$.039 for Congressional Undistributed Adjustments; \$1.7M for Non-Cooperative Combat Identification Capability which has been revised by \$.018 for Congressional Undistributed Adjustments; and \$4.5M for PMRF Net-Centric Test Bed/AHE Testing which has been revised by \$.050 for Congressional Undistributed Adjustments.</p> <p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>E-2C Improvements provides pre-planned product improvements for the evolution of E-2C airborne warning system capabilities in support of naval warfare command and control requirements. It has previously funded developments for the modification replacement of selected weapon replaceable assemblies of current installed subsystems. This has resulted in a new capability configuration referred to as Group II aircraft. The program has developed a Mission Computer Upgrade (MCU), applying on-going developments in data processing and target detection, which will relieve current bottlenecks in signal and data processing. The MCU will permit incorporation of additional functional capabilities to satisfy evolving operational requirements, e.g., Cooperative Engagement Capability (CEC), Satellite Communications (SATCOMS), and permits the evolutionary growth of a Combat Identification and Theater Air and Missile Defense (TAMD) Capability.</p> <p>FY2003-2009: Funding provides for evaluation of technology for new emergent systems and subsystems. This initiative allows for data collection and the evaluation of new technologies in the context of emerging missions and requirements including Theater Air and Missile Defense, Ballistic Missile Defense, littoral warfare, combat identification including specific emitter identification, multi-source integration, Airborne Battlefield Command and Control (ABC2), and Single Integrated Air Picture (SIAP) as well as parts and system obsolescence. Emphasis will be upon the following areas: participation in exercises to assess capabilities against emerging threats; identify deficiencies, identification of candidate solutions; and ground/airborne demonstrations of the identified technologies.</p>								

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Exhibit R-2, RDTEN Budget Item Justification
(Exhibit R-2, page 1 of 13)

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EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							February 2004	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7		PROGRAM ELEMENT NUMBER AND NAME 0204152N, E-2 SQUADRONS			PROJECT NUMBER AND NAME 0463, E-2C IMPROVEMENTS			
COST (\$ in Millions)		FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost		8.502	19.331 *	6.055	2.155	1.579	1.586	1.605
RDT&E Articles Qty								
<p>* The FY 2004 budget reflects the following Congressional adds: \$1.0M for E-2C Program Support Activity (PSA) which has been revised by \$.011 for Congressional Undistributed Adjustments; \$3.5M for E-2C PSA (SBIR Phase III) which has been revised by \$.039 for Congressional Undistributed Adjustments; \$1.7M for Non-Cooperative Combat Identification Capability which has been revised by \$.018 for Congressional Undistributed Adjustments; and \$4.5M for PMRF Net-Centric Test Bed/AHE Testing which has been revised by \$.050 for Congressional Undistributed Adjustments.</p> <p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>E-2C Improvements provides pre-planned product improvements for the evolution of E-2C airborne warning system capabilities in support of naval warfare command and control requirements. It has previously funded developments for the modification replacement of selected weapon replaceable assemblies of current installed subsystems. This has resulted in a new capability configuration referred to as Group II aircraft. The program has developed a Mission Computer Upgrade (MCU), applying on-going developments in data processing and target detection, which will relieve current bottlenecks in signal and data processing. The MCU will permit incorporation of additional functional capabilities to satisfy evolving operational requirements, e.g., Cooperative Engagement Capability (CEC), Satellite Communications (SATCOMS), and permits the evolutionary growth of a Combat Identification and Theater Air and Missile Defense (TAMD) Capability.</p> <p>Funding provides for evaluation of technology for new emergent systems and subsystems. This initiative allows for data collection and the evaluation of new technologies in the context of emerging missions and requirements including Theater Air and Missile Defense, Ballistic Missile Defense, littoral warfare, combat identification including specific emitter identification, multi-source integration, Airborne Battlefield Command and Control (ABC2), and Single Integrated Air Picture (SIAP) as well as parts and system obsolescence. Emphasis will be upon the following areas: participation in exercises to assess capabilities against emerging threats; identify deficiencies, identification of candidate solutions; and ground/airborne demonstrations of the identified technologies.</p>								

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Exhibit R-2a, RDTEN Project Justification
(Exhibit R-2a, page 2 of 13)

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2004																
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7	PROGRAM ELEMENT NUMBER AND NAME 0204152N, E-2 SQUADRONS	PROJECT NUMBER AND NAME 0463, E-2C IMPROVEMENTS																	
B. Accomplishments/Planned Program																			
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 15%;"></th><th style="width: 15%;">FY 03</th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td></td><td></td><td></td><td></td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></tbody></table> <div style="border: 1px solid black; height: 60px; margin-top: 10px;"></div>							FY 03	FY 04	FY 05	Accomplishments/Effort/Subtotal Cost					RDT&E Articles Quantity				
		FY 03	FY 04	FY 05															
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		FY 03	FY 04	FY 05															
Accomplishments/Effort/Subtotal Cost		2.380	2.300																
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Accomplishments/Effort/Subtotal Cost		1.501	1.100	0.950															
RDT&E Articles Quantity																			
<div style="border: 1px solid black; padding: 5px;"><p>Multi-Source Integration (MSI) Phase II Developed software applications to facilitate incorporation of new technologies such as MSI in existing E-2C operational Flight Program (OFP). Performed data collection to support MSI efforts and participated in Fleet Battle Experiment Juliet. Fund requirements analysis for development of integrated communication system architecture to support advanced sensor networking. Fund Fleet Battle Group interoperability testing and evaluation for the E-2C. Perform all source data fusion in the E-2 including radar, Identification Friend or Foe (IFF), Electronic Surveillance Measures (ESM), Link 16, Link 11, and Cooperative Engagement Capability (CEC).</p></div>																			
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Accomplishments/Effort/Subtotal Cost		1.000	1.200																
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<div style="border: 1px solid black; padding: 5px;"><p>Integrated Processor Architecture Development Perform integrated processor architecture development to support programs computer resources roadmap to improve computer performance and incorporate new technologies.</p></div>																			
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<div style="border: 1px solid black; padding: 5px;"><p>Single Integrated Air Picture (SIAP) Block 0 Fund Multi-Source Integration (MSI) development to support SIAP and add correlation/decorrelation to support MSI.</p></div>																			

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Fund Airborne Battlefield Command and Control (ABC2). Develop ABC2 Software and Automated Decision Aides.																			
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Air Operations Decision Support (AODS) Conduct AODS productionization and final test and evaluation for fielding in the E-2C.																			
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Accomplishments/Effort/Subtotal Cost			0.989																
RDT&E Articles Quantity																			
Congressional Add for E-2C Program Support Activity (9417). Complete ground testing and initiate flight test of a slide lateral engine mount design to improve vibration isolation capabilities.																			

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B. Accomplishments/Planned Program (Cont.)				
		FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost			3.461	
RDT&E Articles Quantity				
<p>Congressional Add for E-2C Program Support Activity (9418). Support integration of the Multi-purpose Transportable Middleware capability into the E-2C Hawkeye 2000 mission computer.</p>				
		FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost			1.682	
RDT&E Articles Quantity				
<p>Congressional Add for Non-Cooperative Combat Identification Capability (9419). Support of concept development, system engineering, and system prototyping for an advanced non-cooperative identification system capability.</p>				
		FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost			4.450	
RDT&E Articles Quantity				
<p>Congressional Add for PMRF Net-Centric Test Bed/Advanced Hawkeye Testing (9420). Support science and technology and advanced technology demonstration initiatives for potential transition to the E-2 Hawkeye program.</p>				

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<p>C. PROGRAM CHANGE SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; width: 35%;">Funding:</th> <th style="text-align: right; width: 15%;">FY 2003</th> <th style="text-align: right; width: 15%;">FY 2004</th> <th style="text-align: right; width: 15%;">FY 2005</th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget:</td> <td style="text-align: right;">7.773</td> <td style="text-align: right;">9.083</td> <td style="text-align: right;">6.229</td> </tr> <tr> <td>Current BES/President's Budget:</td> <td style="text-align: right;">8.502</td> <td style="text-align: right;">19.331</td> <td style="text-align: right;">6.055</td> </tr> <tr> <td>Total Adjustments</td> <td style="text-align: right; border-top: 1px solid black;">0.729</td> <td style="text-align: right; border-top: 1px solid black;">10.248</td> <td style="text-align: right; border-top: 1px solid black;">-0.174</td> </tr> <tr> <td colspan="4" style="padding-top: 10px;">Summary of Adjustments</td> </tr> <tr> <td> Congressional program reductions</td> <td></td> <td style="text-align: right;">-0.232</td> <td></td> </tr> <tr> <td> Congressional undistributed reductions</td> <td></td> <td style="text-align: right;">-0.232</td> <td></td> </tr> <tr> <td> Congressional rescissions</td> <td></td> <td></td> <td></td> </tr> <tr> <td> SBIR/STTR Transfer</td> <td style="text-align: right;">-0.153</td> <td></td> <td></td> </tr> <tr> <td> Reprioritization</td> <td></td> <td style="text-align: right;">-0.220</td> <td style="text-align: right;">-0.167</td> </tr> <tr> <td> Economic Assumptions</td> <td></td> <td></td> <td style="text-align: right;">-0.007</td> </tr> <tr> <td> Reprogrammings</td> <td style="text-align: right;">0.882</td> <td></td> <td></td> </tr> <tr> <td> Congressional increases</td> <td></td> <td style="text-align: right;">10.700</td> <td></td> </tr> <tr> <td> Subtotal</td> <td style="text-align: right; border-top: 1px solid black;">0.729</td> <td style="text-align: right; border-top: 1px solid black;">10.248</td> <td style="text-align: right; border-top: 1px solid black;">-0.174</td> </tr> </tbody> </table> <p style="margin-top: 20px;">Schedule: The MSI S&T Demo schedule slid in FY03 from the first quarter to the third quarter due to technical performance in control signals in Multi-Mission Advanced Tactical Terminal (MATT) radio, causing other minor schedule changes for MSI to slide according. No impact to the overall program schedule.</p> <p style="margin-top: 20px;">Technical: Not Applicable.</p>					Funding:	FY 2003	FY 2004	FY 2005	Previous President's Budget:	7.773	9.083	6.229	Current BES/President's Budget:	8.502	19.331	6.055	Total Adjustments	0.729	10.248	-0.174	Summary of Adjustments				Congressional program reductions		-0.232		Congressional undistributed reductions		-0.232		Congressional rescissions				SBIR/STTR Transfer	-0.153			Reprioritization		-0.220	-0.167	Economic Assumptions			-0.007	Reprogrammings	0.882			Congressional increases		10.700		Subtotal	0.729	10.248	-0.174
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RDT&E, N / BA-7		0204152N, E-2 SQUADRONS			0463, E-2C IMPROVEMENTS					
D. OTHER PROGRAM FUNDING SUMMARY:										
<u>Line Item No. & Name</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Complete</u>	<u>Total Cost</u>	
APN-1/E-2C (LI# 12 & 13)	286.594	226.811	247.950	249.059	208.579	175.895	733.639	10283.83	14917.757	
APN-5/E-2C (LI# 36)	25.001	50.274	15.124	13.785	9.444	9.338	8.561	349.280	923.011	
APN-6/E-2C (LI# 53)	20.970	2.947	1.148	0.000	0.000	0.000	11.925	287.622	430.515	
<u>Related RDT&E</u>										
(U) 0204152N E-2 Squadrons PU E2321										
(U) 0603658N (Ship Self Defense, CEC)										
(U) 0604234N Advanced Hawkeye										
E. ACQUISITION STRATEGY:										
Not Applicable										

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2004				
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RDT&E, N / BA-7			0204152N, E-2 SQUADRON			0463, E-2C IMPROVEMENTS						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Dev. - MCU	SS/CPIF	NGC, NY/FL	157.460								157.460	157.460
Primary Hardware Dev. - CEC	SS/CPFF	NGC, NY/FL	291.513								291.513	291.513
Primary Hardware Dev.	Various	Various	5.765	0.882	09/03						6.647	
Primary Hardware Mod. - ICR	SS/CPFF	NGC, NY	1.766								1.766	1.766
Primary Hardware - JMPS/TAMPS	WX	PT. Mugu, CA	0.255								0.255	
Primary Hardware - SEI	SS/CPFF	NGC, NY	7.638								7.638	7.638
Primary Hardware - MSI	C/CPFF	Various		2.925	02/03	0.700	10/03				3.625	3.625
Primary Hardware - IPAD	SS/CPFF	NGC				1.000	10/03				1.000	1.000
Primary Hardware - ABC2	Various	Various				2.049	01/04	1.800	10/04		3.849	
Primary Hardware - SIAP	Various	Various		1.093	01/03	2.100	01/04				3.193	
Primary Hardware - SIAP												
E-2C Prog Spt Act	TBD	Various				0.989	02/04				0.989	
E-2C Prog Spt Act-SBIR Phase III	TBD	Various				3.461	02/04				3.461	
Non-Coop Combat ID Capability	TBD	Various				1.682	02/04				1.682	
PMRF Net-Centric Test Bed	TBD	Various				4.450	02/04				4.450	
Training Development												
Licenses												
Tooling												
GFE												
Primary Hardware - AODS	TBD	Various						0.600	10/04		0.600	
Subtotal Product Development			464.397	4.900		16.431		2.400			488.128	
Remarks:												

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Exhibit R-3, Project Cost Analysis
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Exhibit R-3, Project Cost Analysis
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UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)										DATE: February 2004		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7			PROGRAM ELEMENT 0204152N, E-2 SQUADRONS			PROJECT NUMBER AND NAME 0463, E-2C IMPROVEMENTS						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 03 Cost	FY 03 Award Date	FY 04 Cost	FY 04 Award Date	FY 05 Cost	FY 05 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Dev. Test & Eval. - MCU/Various	WX/RC	NAWCAD, PAX RIVER, MD	88.905	2.152	12/02	0.700	10/03	1.639	10/04	Continuing	Continuing	
Dev. Test & Eval. ACIS (PMS-440)	PD	NAVSEA	2.483								2.483	
Dev. Test & Eval. LEAR Jet - MCU	PD	PMA-207	0.601								0.601	
Dev. Test & Eval. - MCU	WX	PMRF, HAWAII	1.500								1.500	
Dev. Test & Eval. Misc. - MCU	MIPR	VARIOUS	0.666								0.666	
Dev. Test & Eval. - Contract/Improv	MIPR	TBD	0.325								0.325	
Dev. Test & Eval. - EBC	TBD	VARIOUS	2.500								2.500	
Subtotal T&E			96.980	2.152		0.700		1.639		Continuing	Continuing	
Remarks:												
Contractor Engineering Support											0.000	
Government Engineering Support											0.000	
Program Management Support	WX/RX	NAWCAD, PAX RIVER, MD	0.091	1.016	01/03	0.470	10/03	0.683	10/04		2.260	
Travel	WX/WR	NAWCAD, PAX RIVER, MD	0.166	0.114	12/02	0.030	10/03	0.060	10/04	Continuing	Continuing	
Transportation											0.000	
											0.000	
Subtotal Management			0.257	1.130		0.500		0.743		Continuing	Continuing	
Remarks:												
Total Cost			645.724	8.502		19.331		6.055		Continuing	Continuing	
Remarks:												

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Exhibit R-3, Project Cost Analysis
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CLASSIFICATION:

EXHIBIT R4, Schedule Profile																										DATE: February 2004									
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-7									PROGRAM ELEMENT NUMBER AND NAME 0204152N, E-2 SQUADRONS																PROJECT NUMBER AND NAME 0463, E-2C IMPROVEMENTS										
Fiscal Year	2002				2003				2004				2005				2006				2007				2008				2009						
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4							
Acquisition/T&E Milestones																																			
MSI																																			
AODS																																			
IPAD																																			
ABC2																																			
MSI PH II																																			
SIAP Blk 0																																			

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* Not required for Budget Activities 1, 2, 3, and 6

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Exhibit R-4a, Schedule Detail
(Exhibit R-4a, page 13 of 13)