

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE: FEBRUARY 2002			
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5						R-1 ITEM NOMENCLATURE 0604234N, E-2C RADAR MODERNIZATION PROGRAM					
COST (\$ in Millions)	Prior Year Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Total PE Cost				78.306	113.681	162.376	178.872	189.435	123.785	Continuing	Continuing
E3051 - (E-2C Radar Modernization Program)				78.306	113.681	162.376	178.872	189.435	123.785	Continuing	Continuing
Quantity of RDT&E Articles						1	1				
<p>*Two MYP E-2C aircraft will be modified in to provide RDT&E assets for the RMP program.</p> <p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The E-2C Radar Modernization Program (RMP) develops, demonstrates, and tests new radar technologies that modernize the primary sensor of the E-2C weapon system to provide a definitive littoral surveillance capability integral to the Navy's Theater Air Missile Defense (TAMD) Integrated Warfare Architecture. In addition, the RMP modernizes the E-2C avionics, provides improved battle space integration and improves the producibility of the entire weapons system. Key radar technologies are space-time adaptive processing (STAP), electronically scanning array (ESA), solid state transmitter, high dynamic range digital receivers and IFF/radar aperture integration. The resulting 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. The impact of the dominant battlefield awareness provided by this improved airborne early warning system will substantially contribute to the development of a single integrated air picture. These technologies were demonstrated in a ground environment in FY1999 and will continue to be refined through FY2003. This P.E. will be utilized for RMP pre-system development and demonstration (Pre-SD&D) in FY2002 followed by a phased SD&D beginning in FY2003 with the development of a Littoral Surveillance capability. RMP enters the production phase in FY2006-2007 and completes with a full rate production decision for a system compliant with the Joint Theater Air Missile Defense (JTAMD) mission needs statement in 2012.</p> <p>(U) JUSTIFICATION ACTIVITY: This program is funded under SYSTEM DEVELOPMENT AND DEMONSTRATION because it encompasses the development and demonstration of new end-items prior to a production approval decision.</p>											

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Exhibit R-2, RDTEN Budget Item Justification
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EXHIBIT R-2a, RDT&E Project Justification								DATE: FEBRUARY 2002			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5	PROGRAM ELEMENT NUMBER AND NAME 0604234N, E-2C RADAR MODERNIZATION PROGRAM					PROJECT NUMBER AND NAME E3051, E-2C RMP					
COST (\$ in Millions)	Prior Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost				78.306	113.681	162.376	178.872	189.435	123.785	Continuing	Continuing
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Exhibit R-2, RDTEN Budget Item Justification
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EXHIBIT R-2a, RDT&E Project Justification			DATE:
	FEBRUARY 2002		
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N / BA-5	0604234N, E-2C RADAR MODERNIZATION PROGRAM	E3051, E-2C RMP	
	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>
(U) FY 2002 President's Budget:		96.000	
(U) Adjustments from the FY2002 President's Budget:		-17.694	
(U) FY 2003 President's Budget Submit:		78.306	113.681
 CHANGE SUMMARY EXPLANATION:			
<p>(U) Funding: The FY 2002 net decrease of \$17.694 million consists of a \$17.000 million decrease for E-2C RMP KC-130 testbed (realigned to PE 0204152N) and a \$0.694 million decrease for undistributed congressional reduction.</p> <p>(U) Schedule: None.</p> <p>(U) Technical: Not Applicable.</p>			

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<p>(U) C. OTHER PROGRAM FUNDING SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Line Item No. & Name</u></th> <th style="text-align: right;">FY 2001</th> <th style="text-align: right;">FY 2002</th> <th style="text-align: right;">FY 2003</th> <th style="text-align: right;">FY 2004</th> <th style="text-align: right;">FY 2005</th> <th style="text-align: right;">FY 2006</th> <th style="text-align: right;">FY 2007</th> <th style="text-align: right;">To Complete</th> </tr> </thead> <tbody> <tr> <td>APN 1/E-2C (LI #12 &13)</td> <td style="text-align: right;">312.375</td> <td style="text-align: right;">275.216</td> <td style="text-align: right;">295.451</td> <td style="text-align: right;">252.860</td> <td style="text-align: right;">324.871</td> <td style="text-align: right;">421.542</td> <td style="text-align: right;">398.906</td> <td style="text-align: right;">6776.439</td> </tr> <tr> <td>APN 5/E-2C (LI #35)</td> <td style="text-align: right;">49.829</td> <td style="text-align: right;">48.498</td> <td style="text-align: right;">17.195</td> <td style="text-align: right;">90.933</td> <td style="text-align: right;">9.559</td> <td style="text-align: right;">8.740</td> <td style="text-align: right;">8.600</td> <td style="text-align: right;">1331.900</td> </tr> <tr> <td>APN 6/E-2C (LI #49)</td> <td style="text-align: right;">21.733</td> <td style="text-align: right;">26.733</td> <td style="text-align: right;">4.082</td> <td style="text-align: right;">13.040</td> <td style="text-align: right;">7.313</td> <td style="text-align: right;">2.071</td> <td style="text-align: right;">5.750</td> <td style="text-align: right;">216.927</td> </tr> </tbody> </table> <p><u>Related RDT&E</u> (U) 0603658N (Ship Self Defense, CEC) (U) 0204152N (E2 Squadrons)</p> <p>(U) D. ACQUISITION STRATEGY: Not Applicable</p> <p>(U) E. SCHEDULE PROFILE:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="text-align: center;"><u>FY 2001</u></th> <th style="text-align: center;"><u>FY 2002</u></th> <th style="text-align: center;"><u>FY 2003</u></th> <th style="text-align: center;"><u>TO COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>(U) Program Milestones</td> <td></td> <td></td> <td>Q1/03 MS B Decision Q2/03 Conduct SRR for NC130H TAMD Config.</td> <td>Q1/06 NC-130H Phase III 1st Flt</td> </tr> <tr> <td>(U) Engineering Milestones</td> <td></td> <td>Q4/02 Continue E-2C RMP dem/val effort</td> <td>Q1/03 RMP SFR Q2/03 RMP LS PDR</td> <td></td> </tr> <tr> <td>(U) T&E Milestones</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Contract Milestones</td> <td></td> <td>Q1-Q2/02 award BOA, MSI, NC-130H Vehicle, Systems contracts</td> <td>Q1/03 SD&D Contract Award, NC-130H Vehicle Systems Contracts</td> <td></td> </tr> </tbody> </table>								<u>Line Item No. & Name</u>	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete	APN 1/E-2C (LI #12 &13)	312.375	275.216	295.451	252.860	324.871	421.542	398.906	6776.439	APN 5/E-2C (LI #35)	49.829	48.498	17.195	90.933	9.559	8.740	8.600	1331.900	APN 6/E-2C (LI #49)	21.733	26.733	4.082	13.040	7.313	2.071	5.750	216.927		<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>TO COMPLETE</u>	(U) Program Milestones			Q1/03 MS B Decision Q2/03 Conduct SRR for NC130H TAMD Config.	Q1/06 NC-130H Phase III 1st Flt	(U) Engineering Milestones		Q4/02 Continue E-2C RMP dem/val effort	Q1/03 RMP SFR Q2/03 RMP LS PDR		(U) T&E Milestones					(U) Contract Milestones		Q1-Q2/02 award BOA, MSI, NC-130H Vehicle, Systems contracts	Q1/03 SD&D Contract Award, NC-130H Vehicle Systems Contracts	
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Exhibit R-3 Cost Analysis (page 1)										DATE: FEBRUARY 2002		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-5			0604234N, E-2C RADAR MODERNIZATION PROGRAM			E3051, E-2C RMP						
Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Hardware/Software Dev.	SS/CPFF	Classified				1.141	02/02	7.235	01/03		8.376	8.376
Hardware/Software Dev.	SS/CPFF	NGC, NY				1.140	02/02	9.798	01/03		10.938	10.938
E-2C RMP Dem/Val Continuation efforts	SS/CPFF	NGC, NY				47.530	11/01				47.530	47.530
E-2C RMP Eng. Spt Services	C/CPFF	NAWCAD, PAX RIVER, MD				1.600	11/01	1.250	11/02		2.850	2.850
E-2C RMP Require. Analysis Spt	C/FP	TBD				0.776	01/02	0.750	11/02		1.526	1.526
Hardware/Software Dev.	SS/CPFF	Classified				17.150	12/01				17.150	17.150
E-2C RMP SD&D	SS/CPAFF	NGC, NY						84.373	11/02		84.373	84.373
Subtotal Product Development						69.337		103.406			172.743	
Remarks: New Project begins in FY2002.												
Government Eng. Spt	WR/WX	NAWCAD, PAX RIVER, MD				2.496	11/01	5.862	11/02	Continuing	Continuing	
Government Eng. Spt	WX/RC	NAWCAD, PAX RIVER, MD				0.395	02/02				0.395	
Government Eng. Spt	WR	NSWCDD, Dahlgren, VA				0.350	02/02				0.350	
Government Eng. Spt	WR	NRL, Washington, D.C.				0.164	02/02				0.164	
Government Eng. Spt	WR	NAWCAD, PAX RIVER, MD						0.613	11/02	Continuing	Continuing	
Government Eng. Spt	WR	NAWCAD, PAX RIVER, MD						3.800	11/02	Continuing	Continuing	
Subtotal Support						3.405		10.275		Continuing	Continuing	
Remarks:												

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Exhibit R-2, RD TEN Budget Item Justification
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Exhibit R-3 Cost Analysis (page 2)							DATE: FEBRUARY 2002					
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-5			0604234N, E-2C RADAR MODERNIZATION PROGRAM			E3051, E-2C RMP						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Test & Evaluation	WR/WX	NAWCAD, PAX RIVER, MD				2.520	11/01				2.520	
Subtotal T&E						2.520					2.520	
Remarks:												
Management	WX/RX	NAWCAD, PAX RIVER, MD				0.149	11/01				0.149	
Travel	WR/WX	NAWCAD, PAX RIVER, MD				0.015	11/01				0.015	
SBIR Assessment						2.880					2.880	
Subtotal Management						3.044					3.044	
Remarks:												
Total Cost						78.306		113.681		Continuing	Continuing	
Remarks:												

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