

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: <b>February 2003</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-5</b>					R-1 ITEM NOMENCLATURE 0604221N P-3 Modernization Program			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Total PE Cost	<b>6.014</b>	<b>2.297</b>	<b>7.306</b>	<b>6.785</b>	<b>2.261</b>	<b>2.299</b>	<b>2.343</b>	<b>2.385</b>
H1152 P-3 Sensor Integration	<b>6.014</b>	<b>2.297</b>	<b>7.306</b>	<b>6.785</b>	<b>2.261</b>	<b>2.299</b>	<b>2.343</b>	<b>2.385</b>

**A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:**

This program provides upgrades to P-3C aircraft systems to enhance surface and subsurface tracking and classification; attack capabilities including Specific Emmitter Identification (SEI); improved APS-137 radar tracking and upgrades; and P-3 Off-the-Shelf Readiness Improvements. The P-3C Sensor Integration project provides for the technology insertion support necessary to integrate advanced sensors into embedded P-3C Update III computer systems. Also, P-3 Sensor Integration will expand software technology of P-3 systems to integrate additional sensors, tactical decision aids, and color capabilities to improve aircrew tactical proficiency and awareness. Sensor Integration is a continuous effort to integrate and test newly evolving ASW technologies under the "Extended Echo Ranging (EER) family of Mult-Static active sensor systems".

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**CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2003</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME 0604221N P-3 Modernization Program			PROJECT NUMBER AND NAME H1152 P-3 Sensor Integration			
COST (\$ in Millions)	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009
Project Cost	6.014	2.297	7.306	6.785	2.261	2.299	2.343	2.385
RDT&E Articles Qty								

**A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:**

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<b>(U) B. Accomplishments/Planned Program</b>				
	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	6.014	2.297	2.806	2.085
RDT&E Articles Quantity				
<div style="border: 1px solid black; min-height: 60px; margin-top: 5px;">                     System engineering support for integration of EER family of Multi-Static active sensor system.                 </div>				
	FY 02	FY 03	FY 04	FY 05
Accomplishments/Effort/Subtotal Cost	0.000	0.000	4.500	4.700
RDT&E Articles Quantity				
<div style="border: 1px solid black; min-height: 60px; margin-top: 5px;">                     P-3 Off-the-Shelf Readiness Improvements integration and testing.                 </div>				

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		<b>February 2003</b>
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
<b>RDT&amp;E, N / BA-5</b>	0604221N P-3 Modernization Program	H1152 P-3 Sensor Integration

**(U) C. PROGRAM CHANGE SUMMARY:**

(U) Funding:	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget:	3.192	2.348	3.259	2.495
Current BES/President's Budget	6.014	2.297	7.306	6.785
Total Adjustments	2.822	-0.051	4.047	4.290

Summary of Adjustments

Congressional program reductions				
Congressional undistributed reductions		-0.013		
Congressional rescissions	-0.007			
SBIR/STTR Transfer	-0.096			
Economic Assumptions	-0.009	-0.038	-0.187	-0.155
Reprogrammings				
Other Navy/OSD Adjustments	2.934		4.234	4.445
Reprioritization of requirements				
Congressional Increases				
Subtotal	2.822	-0.051	4.047	4.290

(U) Schedule:

The following milestones were reported incorrectly and are not included in this submission: IEER operational assessment (OA), AEER P-3C software development, IEER DT/OT and Swalas/Tamda. They are related to the ASW Sensor & processing development efforts. The P-3 Sensor integration takes the developed technologies and integrates them into the P-3. The milestones now reflect this integrated support and insertion of technology under "Extended Echo Ranging (EER) family of multi-static active sensor systems".

(U) Technical:

Not Applicable

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>			PROGRAM ELEMENT NUMBER AND NAME 0604221N P-3 Modernization Program				PROJECT NUMBER AND NAME H1152 P-3 Sesnor Integration			
<b>(U) D. OTHER PROGRAM FUNDING SUMMARY:</b>										
<u>Line Item No. &amp; Name</u>	<u>FY 2002</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>
BLI#36 P-3 Readiness Improvements (OSIP 04-04)			14.056	19.904	35.973	36.895	38.018	39.022	489.589	673.457
<b>(U) E. ACQUISITION STRATEGY:</b>										
<p>The Air Deployable Active Receiver/Improved Extended Echo Ranging (IEER) Operational Requirements Document (Ser# 297(1)-05-97) for H1152 was approved on 29 December 1997. The P-3 ASUW Improvement Program (AIP) ORD (Ser#355-88-94) for H2417 was approved on 30 March 1994. The Acquisition Plan (AIR-93-08A Rev 2) was approved on 30 March 1998.</p>										

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CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)									DATE: <b>February 2003</b>			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
<b>RDT&amp;E, N / BA-5</b>			0604221N P-3 Modernization Program			H1152 P-3 Sensor Integration						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total Pys 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 Development (EER)	C/FP	Raytheon, McKinney, Tx	6.425								6.425	6.425
Systems Engineering	Various	Various	28.160	1.067	01/03	1.181	01/04	0.920	01/05	Continuing	Continuing	
Systems Engineering	TBD	TBD				4.500	01/04	4.700	01/05	0.000	9.200	9.200
Subtotal Product Development			34.585	1.067		5.681		5.620		Continuing	Continuing	
Remarks:												
Software Development	C/FP	Raytheon, McKinney, Tx	5.781								5.781	5.781
Software Development	C/FP	Raytheon, McKinney, Tx	1.998								1.998	1.998
Software Development	SS/FP	LMNESS, Egan, MN	14.561								14.561	14.561
Software Development	WX	NAWCAD, Pax River, MD	2.266	0.324	01/03	0.405	01/04	0.398	01/05	Continuing	Continuing	
Subtotal Support			24.606	0.324		0.405		0.398		Continuing	Continuing	
Remarks:												

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**Exhibit R-3, Project Cost Analysis**  
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CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 2)										DATE: <b>February 2003</b>		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
<b>RDT&amp;E, N / BA-5</b>			0604221N P-3 Modernization Program			H1152 P-3 Sensor Integration						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total Pys 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
Subtotal T&E												
Remarks:												
Government Engineering Support	WX	NAWCAD, Pax River, MD	11.810	0.906	01/03	1.220	01/04	0.767	01/05	Continuing	Continuing	0.000
Subtotal Management			11.810	0.906		1.220		0.767		Continuing	Continuing	
Remarks:												
Total Cost			71.001	2.297		7.306		6.785		Continuing	Continuing	
Remarks:												

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EXHIBIT R4, Schedule Profile																								DATE: <b>February 2003</b>									
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>								PROGRAM ELEMENT NUMBER AND NAME 0604221N P-3 Modernization Program								PROJECT NUMBER AND NAME H1152 P-3 Sensor Integration																	
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	1	2	3	4	
EER Multi-Static Active Sensor System Support				△																													
EER Fleet Technology Insertion					△																												
P-3 Off-the-Shelf Readiness Improvements Integration and Test (RDT&E)									△	—————→							▽																
P-3 Readiness Improvements Kit Acquisitions (APN)									△	—————→							◻	—————→															

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

