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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604221N / <i>P-3 Modernization Program</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	25.924	0.583	0.579	0.343	-	0.343	0.771	0.000	0.000	0.000	0.000	28.200
3016: <i>Fatigue Life Mgmt Program</i>	25.924	0.583	0.579	0.343	-	0.343	0.771	0.000	0.000	0.000	0.000	28.200

**A. Mission Description and Budget Item Justification**

Fatigue Life Management Program is required to manage P-3/EP-3 inventory fatigue life and includes ongoing structural analysis, analyzing emergent structural issues, conducting engineering studies, assessing Fleet impact, and applying new technologies such as Non-Destructive Inspection techniques.

This program is funded under SYSTEM DEVELOPMENT AND DEMONSTRATION because it includes those projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirement prior to full-rate production decision.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>
Previous President's Budget	0.598	0.579	0.000	-	0.000
Current President's Budget	0.583	0.579	0.343	-	0.343
Total Adjustments	-0.015	0.000	0.343	-	0.343
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.015	0.000			
• Program Adjustments	0.000	0.000	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	0.343	-	0.343

**Change Summary Explanation**

FY 2023 funding request was reduced by \$0.224 million to account for the availability of prior year execution balances.

Technical: Not applicable.

Schedule: Not applicable.

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FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.		

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**Exhibit R-2A, RDT&E Project Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604221N / P-3 Modernization Program	<b>Project (Number/Name)</b> 3016 / Fatigue Life Mgmt Program
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
3016: <i>Fatigue Life Mgmt Program</i>	25.924	0.583	0.579	0.343	-	0.343	0.771	0.000	0.000	0.000	0.000	28.200
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

Fatigue Life Management Program is required to manage P-3/EP-3 inventory fatigue life and includes ongoing structural analysis, analyzing emergent structural issues, conducting engineering studies, assessing Fleet impact, and applying new technologies such as Non-Destructive Inspection techniques.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Title:</b> P-3/EP-3 Fatigue Life Management	0.583	0.579	0.343	0.000	0.343
<b>Articles:</b>	-	-	-	-	-
<b>FY 2022 Plans:</b> Fatigue Life Management Program: Continue managing P-3/EP-3 inventory fatigue life including conducting structural analysis, analyzing structural issues, conducting engineering studies, and assessing Fleet impact. Continue researching, testing and applying new Fatigue Inspection techniques to the P-3/EP-3 Fleet.					
<b>FY 2023 Base Plans:</b> Fatigue Life Management Program: Continue managing P-3/EP-3 inventory fatigue life including conducting structural analysis, analyzing structural issues, conducting engineering studies, and assessing Fleet impact. Continue researching, testing and applying new Fatigue Inspection techniques to the P-3/EP-3 Fleet.					
<b>FY 2023 OCO Plans:</b> N/A					
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Reduction from FY2022 to FY2023 due to miscellaneous adjustments.					
<b>Accomplishments/Planned Programs Subtotals</b>	0.583	0.579	0.343	0.000	0.343

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

N/A

**Remarks**

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**Exhibit R-2A, RDT&E Project Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604221N / <i>P-3 Modernization Program</i>	<b>Project (Number/Name)</b> 3016 / <i>Fatigue Life Mgmt Program</i>
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**D. Acquisition Strategy**

The Fatigue Life Management Program leverages off of prior work done under P-3 Service Life Extension Program (2451). The Anti-Surface Warfare Improvement Program Operational Requirements Documents 355-88-94 was approved 30 March 94. Work will be performed by RBC, Inc and other industry participants along with the Naval Air Systems Command Structural Engineering Dept, AIR-4.3. This program supports the 7 June 2003 CNO approved P-3/EP-3 Sustainment Bridge to Multi-Mission Maritime Aircraft.



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**Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604221N / P-3 Modernization Program	<b>Project (Number/Name)</b> 3016 / Fatigue Life Mgmt Program
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Fatigue Life Mgmt Program	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027						
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q			
<b>Acquisition Milestones</b>																															
Milestones																															
<b>Systems Development</b>																															
Hardware Development																															
Software Development																															
Reviews																															
<b>Test &amp; Evaluation</b>																															
Technical Evaluation	Inventory Fatigue Life Management/Sustainment																														
Operational Evaluation																															
<b>Production Milestones</b>																															
Contract Awards																															
<b>Deliveries</b>																															

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604221N / <i>P-3 Modernization Program</i>	<b>Project (Number/Name)</b> 3016 / <i>Fatigue Life Mgmt Program</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Fatigue Life Mgmt Program</i></b>				
Test & Evaluation: Technical Evaluation: Inventory Fatigue Life Management/ Sustainment	1	2021	4	2024