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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604221N / <i>P-3 Modernization Program</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	23.850	2.074	0.000	0.606	-	0.606	0.600	0.604	0.604	0.000	0.000	28.338
3016: <i>Fatigue Life Mgmt Program</i>	23.850	2.074	0.000	0.606	-	0.606	0.600	0.604	0.604	0.000	0.000	28.338

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)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	2.134	0.000	0.000	-	0.000
Current President's Budget	2.074	0.000	0.606	-	0.606
Total Adjustments	-0.060	0.000	0.606	-	0.606
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-0.060	0.000			
• Program Adjustments	0.000	0.000	0.600	-	0.600
• Rate/Misc Adjustments	0.000	0.000	0.006	-	0.006

Change Summary Explanation

Technical: Not applicable.

Schedule: Fatigue Life Management Program extends to FY 2024.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy										Date: February 2020		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604221N / P-3 Modernization Program				Project (Number/Name) 3016 / Fatigue Life Mgmt Program			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
3016: <i>Fatigue Life Mgmt Program</i>	23.850	2.074	0.000	0.606	-	0.606	0.600	0.604	0.604	0.000	0.000	28.338
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: P-3/EP-3 Fatigue Life Management	2.074	0.000	0.606	0.000	0.606
Articles:	-	-	-	-	-
FY 2020 Plans: N/A					
FY 2021 Base Plans: Fatigue Life Management Program: Manage P-3/EP-3 inventory fatigue life including conducting structural analysis, analyzing structural issues, conducting engineering studies, and assessing Fleet impact. Research, test and apply new Fatigue Inspection techniques to the P-3/EP-3 Fleet.					
FY 2021 OCO Plans: N/A					
FY 2020 to FY 2021 Increase/Decrease Statement: FY2021 Increase over FY2020 to support P-3 Fatigue Life during transition of capability to P-8A and MQ-4C.					
Accomplishments/Planned Programs Subtotals	2.074	0.000	0.606	0.000	0.606

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

Line Item	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
• APN/0538: P-3 Series	0.803	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	4,910.963

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy **Date:** February 2020

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

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 Lockheed Martin Aeronautical Systems 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 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604221N / P-3 Modernization Program	Project (Number/Name) 3016 / Fatigue Life Mgmt Program
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Fatigue Life Mgmt Program	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025						
	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			
Acquisition Milestones																															
Milestones																															
Systems Development																															
Hardware Development																															
Software Development																															
Reviews																															
Test & Evaluation																															
Technical Evaluation	Inventory Fatigue Life Management/Sustainment																														
Operational Evaluation																															
Production Milestones																															
Contract Awards																															
Deliveries																															

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy **Date:** February 2020

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Fatigue Life Mgmt Program</i>				
Test & Evaluation: Technical Evaluation: Inventory Fatigue Life Management/ Sustainment	1	2019	4	2024