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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy

Date: May 2017

Appropriation/Budget Activity

1319: Research, Development, Test & Evaluation, Navy I BA 5: System

Development & Demonstration (SDD)

R-1 Program Element (Number/Name)
PE 0604221N / P-3 Modernization Program

COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	19.172	1.485	1.909	1.361	-	1.361	2.169	0.000	0.000	0.000	0.000	26.096
3016: Fatigue Life Mgmt Program	19.172	1.485	1.909	1.361	-	1.361	2.169	0.000	0.000	0.000	0.000	26.096

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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	1.514	1.909	1.958	-	1.958
Current President's Budget	1.485	1.909	1.361	-	1.361
Total Adjustments	-0.029	0.000	-0.597	-	-0.597
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	0.000	0.000			
SBIR/STTR Transfer	-0.029	0.000			
Program Adjustments	0.000	0.000	-0.160	-	-0.160
 Rate/Misc Adjustments 	0.000	0.000	-0.437	-	-0.437

Change Summary Explanation

Technical: Not applicable.

Schedule: Not applicable.

PE 0604221N: P-3 Modernization Program

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Navy Page 1 of 3 R-1 Line #102

UNCLASSIFIED

Appropriation/Budget Activity 1319 / 5					, , , , , , , , , , , , , , , , , , , ,					Number/Name) tigue Life Mgmt Program		
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
3016: Fatigue Life Mgmt Program	19.172	1.485	1.909	1.361	-	1.361	2.169	0.000	0.000	0.000	0.000	26.096
Quantity of RDT&E Articles		-	-	=	-	-	-	-	-	-		

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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Title: P-3/EP-3 Fatigue Life Management Articles:	1.485 -	1.909 -	1.361 -	0.000	1.361 -
FY 2016 Accomplishments: Fatigue Life Management Program: Manage P-3/EP-3 inventory fatigue life including conducting structural analysis, analyzing structural issues, conducting engineering studies, assessing Fleet impact. Research, test and apply new Fatigue Inspection techniques to the P-3/EP-3 Fleet.					
FY 2017 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 2018 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 2018 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	1.485	1.909	1.361	0.000	1.361

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

			FY 2018	FY 2018	FY 2018					Cost To	
<u>Line Item</u>	FY 2016	FY 2017	<u>Base</u>	OCO	<u>Total</u>	FY 2019	FY 2020	FY 2021	FY 2022	Complete	Total Cost
 APN/0538: P-3 Series 	2.983	2.781	0.700	-	0.700	0.829	0.633	0.000	0.000	0.000	4,911.636

PE 0604221N: P-3 Modernization Program

UNCLASSIFIED Page 2 of 3

R-1 Line #102

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy			Date: May 2017
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (N	umber/Name)
1319 / 5	PE 0604221N I P-3 Modernization Program	3016 <i>I Fati</i>	igue Life Mgmt Program

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

			FY 2018	FY 2018	FY 2018					Cost To	
Line Item	FY 2016	FY 2017	<u>Base</u>	<u>oco</u>	<u>Total</u>	FY 2019	FY 2020	FY 2021	FY 2022	Complete	Total Cost

Remarks

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.

E. Performance Metrics

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Successful	application	ot s	vstem	engineering	processes.

PE 0604221N: *P-3 Modernization Program* Navy

Page 3 of 3

R-1 Line #102