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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2017 Navy **Date:** February 2016

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605285N / (U)Next Generation Fighter
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	0.000	4.794	5.000	1.200	-	1.200	0.000	0.000	0.000	0.000	0.000	10.994
2937: <i>Next Generation Fighter</i>	0.000	4.794	5.000	1.200	-	1.200	0.000	0.000	0.000	0.000	0.000	10.994

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

This program provides analytical support to the Secretary of the Navy and the Chief of Naval Operations as a basis for major policy, planning and acquisition program execution decisions. It supports research and development strategy development and planning. It supports studies in the areas of manpower, personnel, training, and aviation. It also develops analytical tools for evaluating effectiveness of U.S. weapons against potential foreign threat ships and submarines.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RESEARCH, DEVELOPMENT, TEST and EVALUATION MANAGEMENT SUPPORT because it supports efforts directed toward sustaining or modernizing installations or operations required for general research, development, test and evaluation.

<b><u>B. Program Change Summary (\$ in Millions)</u></b>	<b><u>FY 2015</u></b>	<b><u>FY 2016</u></b>	<b><u>FY 2017 Base</u></b>	<b><u>FY 2017 OCO</u></b>	<b><u>FY 2017 Total</u></b>
Previous President's Budget	4.794	5.000	0.000	-	0.000
Current President's Budget	4.794	5.000	1.200	-	1.200
Total Adjustments	0.000	0.000	1.200	-	1.200
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	0.000	0.000	1.200	-	1.200

**Change Summary Explanation**

Technical: Not applicable.  
 Schedule: Not applicable.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy										<b>Date:</b> February 2016		
<b>Appropriation/Budget Activity</b> 1319 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0605285N / (U)Next Generation Fighter				<b>Project (Number/Name)</b> 2937 / Next Generation Fighter			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
2937: Next Generation Fighter	0.000	4.794	5.000	1.200	-	1.200	0.000	0.000	0.000	0.000	0.000	10.994
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**Note**

This project was originally budgeted in PE 0605152N PU 3365 but was transferred at Congressional request to a new program element.

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

This project supports the analysis of the advanced air dominance family of systems to replace capabilities lost with the end of service life of the F/A-18E/F and EA-18G.

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<b>Title:</b> Next Generation Air Dominance Analysis	4.794	5.000	1.200	0.000	1.200
<b>Articles:</b>	-	-	-	-	-
<b>FY 2015 Accomplishments:</b>					
Establish the analytic environment to support the recapitalization of Naval Aviation capabilities to include those inherent in the F/A-18E/F/G that will be approaching end of service life within the timeframes to meet pre-Milestone B, DOD 5000 series mandated activities, as well as timelines mandated by the Congressional requirements for an Aviation Investment Plan. The environment includes the analysis and support for planning and development of documentation to support a Materiel Development Decision, Analysis of Alternatives planning and execution, and Advanced Development Program Office planning. The products include automated tools and decision aids necessary to perform acquisition planning in support of warfighter capability requirements.					
<b>FY 2016 Plans:</b>					
Conduct an Analysis of Alternatives (AoA) to establish cost and capability tradespaces described by the capability requirements described in the Next Generation Air Dominance Initial Capabilities Document. Conduct systems engineering analysis to sufficiently review capabilities provided by industry proposals. Conduct cost analysis with sufficient fidelity across the total life-cycle of the industry proposals to identify a preferred system concept. The environment includes analysis and support of AoA execution and Advanced Development Program Office planning. Products include automated tools and decision aids necessary to perform acquisition planning in support of warfighter capability requirements, as well as briefing support as required by excursions at the direction of the AoA executive steering group.					
<b>FY 2017 Base Plans:</b>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<b>Appropriation/Budget Activity</b> 1319 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0605285N / (U)Next Generation Fighter	<b>Project (Number/Name)</b> 2937 / Next Generation Fighter

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

	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Continue an AoA to establish cost and capability tradespaces described by the capability requirements described in the Next Generation Air Dominance (NGAD) Initial Capabilities Document and the signed NGAD Study Plan. Conduct systems engineering and mission effectiveness analysis to sufficiently review capabilities of the proposed family-of-system alternatives. Conduct cost estimates and affordability analysis with sufficient fidelity across the total life-cycle of the alternative courses of action to identify a preferred system concept. This includes analysis and support of Analysis of Alternatives (AoA) execution and Advanced Development Program Office planning. Products include data sets, automated tools, and decision aids necessary to provide OPNAV and OSD the information to perform acquisition planning in support of warfighter capability requirements. Conduct briefing support as required by excursions at the direction of the AoA executive steering group.					
<b><i>FY 2017 OCO Plans:</i></b> N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	4.794	5.000	1.200	0.000	1.200

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

**E. Performance Metrics**

Produce and deliver FA-XX (Next Generation Air Dominance) Analysis of Alternatives and Initial Capabilities Document development in accordance with Office of the Secretary of Defense Cost Assessment and Program Evaluation guidance. Analysis performed will be used to identify known warfighter capability gaps and support acquisition planning requirements associated with potential solutions. Analysis provides coherent and integrated cost, risk, and effectiveness data to support long-term planning for Naval Aviation consistent with DOD 5000 series instructions.

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