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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy Date: March 2019

Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 6: RDT&E Management Support					R-1 Program Element (Number/Name) PE 0605285N / (U)Next Generation Fighter							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	5.000	20.698	-	20.698	55.051	111.263	255.592	371.897	Continuing	Continuing
2937: Next Generation Fighter	0.000	0.000	5.000	20.698	-	20.698	55.051	111.263	255.592	371.897	Continuing	Continuing

A. Mission Description and Budget Item Justification

Next Generation Air Dominance (NGAD) is the Family-of-System (FoS) required to deliver future aircraft carrier based TACAIR capabilities. The FoS will include both the recapitalization of current capabilities of the existing air wing and development of new capabilities for 2035 mission success across multiple domains. 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 and provides the initial airframe, avionics, and power/propulsion efforts to develop and field the FoS necessary to replace the United States Navy's F/A-18E/F Super Hornet. It supports research and development strategy development and planning and supports studies in the areas of manpower, personnel, training, and aviation. It also develops and delivers Technology Maturation and Risk Reduction Acquisition Plans and all supporting documents and security classification guides/program protection plans.

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. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	0.000	5.000	5.100	-	5.100
Current President's Budget	0.000	5.000	20.698	-	20.698
Total Adjustments	0.000	0.000	15.598	-	15.598
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	-0.020	-	-0.020
• Rate/Misc Adjustments	0.000	0.000	15.618	-	15.618

Change Summary Explanation

Technical: Not applicable.
Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy										Date: March 2019		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605285N / (U)Next Generation Fighter				Project (Number/Name) 2937 / Next Generation Fighter			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
2937: Next Generation Fighter	0.000	0.000	5.000	20.698	-	20.698	55.051	111.263	255.592	371.897	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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)

	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: Next Generation Air Dominance Analysis	0.000	5.000	5.082	0.000	5.082
Articles:	-	-	-	-	-
FY 2019 Plans: 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 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.					
FY 2020 Base Plans: Conduct systems engineering and mission effectiveness analysis to sufficiently review capabilities of the proposed family-of-system alternatives. This includes analysis and support of 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					
FY 2020 OCO Plans: N/A					
FY 2019 to FY 2020 Increase/Decrease Statement: No significant change between FY19 and FY20					
Title: NG Advanced Engines	0.000	0.000	15.616	0.000	15.616
Articles:	-	-	-	-	-
FY 2019 Plans:					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)						
		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
N/A						
FY 2020 Base Plans: Support Technology Maturation and Risk Reduction (TMRR) acquisition planning and execution. Define TMRR propulsion and power system requirements, security construct and execution plan. Conduct in-house performance analysis and requirements refinement. Initiate TMRR development efforts to include engine, power and thermal systems design, refined cycle definitions and performance analysis.						
FY 2020 OCO Plans: N/A						
FY 2019 to FY 2020 Increase/Decrease Statement: Increase between FY19 and FY20 due to Next Generation Advanced Engine effort beginning in FY20						
Accomplishments/Planned Programs Subtotals		0.000	5.000	20.698	0.000	20.698
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.						