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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2025 Navy **Date:** March 2024

<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 0604800N / <i>JNT Strike Fighter (JSF) - EMD</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	51,169.681	0.225	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	51,169.906
2261: <i>Joint Strike Fighter EMD</i>	51,169.681	0.225	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	51,169.906

**Program MDAP/MAIS Code:**  
**Project MDAP/MAIS Code(s):** 198

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

The F-35 Joint Strike Fighter (JSF) Program has developed and fielded an affordable, highly common family of next generation strike aircraft for the USN, USAF, USMC and allies. The three variants are the F-35A Conventional Takeoff and Landing; F-35B Short Takeoff and Vertical Landing; and the F-35C Aircraft Carrier suitable variant. The F-35A is a stealthy multi-role aircraft, primary air-to-ground for the Air Force to replace the F-16 and A-10 and complement the F-22. The F-35B variant is a multi-role strike fighter aircraft to replace the AV-8B and F/A-18 for the Marine Corps, the Sea Harrier and GR 7 for the United Kingdom, and the AV-8 currently employed by the Italian Navy. The F-35C provided the Department of the Navy with a multi-role, stealthy strike fighter aircraft to complement the F/A-18E/F.

Funding at the accomplishment/planned program level is reported as the total of all services and partners as these activities support all aircraft variants.

The System Development and Demonstration (SDD) budget funded a total quantity of 20 RDT&E test articles to include 6 ground test articles and 14 flight test articles for USN, USMC, and USAF use.

JUSTIFICATION FOR BUDGET ACTIVITY: 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.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2025 Navy	<b>Date:</b> March 2024
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<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 0604800N / <i>JNT Strike Fighter (JSF) - EMD</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	0.234	0.000	0.000	-	0.000
Current President's Budget	0.225	0.000	0.000	-	0.000
Total Adjustments	-0.009	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.009	0.000			
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000

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**Exhibit R-2A, RDT&E Project Justification:** PB 2025 Navy **Date:** March 2024

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604800N / JNT Strike Fighter (JSF) - E MD	<b>Project (Number/Name)</b> 2261 / Joint Strike Fighter EMD
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
2261: Joint Strike Fighter EMD	51,169.681	0.225	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	51,169.906
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**Project MDAP/MAIS Code:** 198

**Note**  
Beginning in FY2022, the JSF EMD (Project Unit 2261) budget is service specific with the following services removed:  
USAF PE 0604800F BPAC 653831  
USMC PE 0604800M Project Unit 2262

**A. Mission Description and Budget Item Justification**  
The F-35 Joint Strike Fighter (JSF) Program has developed and fielded an affordable, highly common family of next generation strike aircraft for the USN, USAF, USMC and allies. The three variants are the F-35A Conventional Takeoff and Landing; F-35B Short Takeoff and Vertical Landing; and the F-35C Aircraft Carrier suitable variant. The F-35A is a stealthy multi-role aircraft, primary air-to-ground for the Air Force to replace the F-16 and A-10 and complement the F-22. The F-35B variant is a multi-role strike fighter aircraft to replace the AV-8B and F/A-18 for the Marine Corps, the Sea Harrier and GR 7 for the United Kingdom, and the AV-8 currently employed by the Italian Navy. The F-35C provided the Department of the Navy with a multi-role, stealthy strike fighter aircraft to complement the F/A-18E/F.

The System Development and Demonstration (SDD) budget funded a total quantity of 20 RDT&E test articles to include 6 ground test articles and 14 flight test articles for USN, USMC, and USAF use.

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<b>Title:</b> System Development and Demonstration (SDD)	0.225	0.000	0.000	0.000	0.000
<b>Articles:</b>	-	-	-	-	-
<b>Description:</b> SDD execution of the Air System (Lockheed Martin) including International Commonality Efforts; includes airframe, vehicle and mission systems, autonomic logistics, systems engineering & test efforts.					
<b>FY 2024 Plans:</b> N/A					
<b>FY 2025 Base Plans:</b> N/A					
<b>FY 2025 OCO Plans:</b>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604800N / JNT Strike Fighter (JSF) - E MD	<b>Project (Number/Name)</b> 2261 / Joint Strike Fighter EMD

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	0.225	0.000	0.000	0.000	0.000

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• RDT&E/0604800M: F-35B JT Strike Fighter (JSF) - EMD	0.587	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	51,171.097
• APN/0605B: F-35B Joint Strike Fighter STOVL Spares	136.770	74.496	75.957	-	75.957	0.000	0.000	0.000	0.000	3,363.198	4,360.631
• APN/0605C: F-35C Joint Strike Fighter CV Spares	93.971	98.303	125.515	-	125.515	0.000	0.000	0.000	0.000	Continuing	Continuing
• APN/0592: F-35B STOVL Series	189.528	311.921	282.987	-	282.987	388.839	582.764	253.015	258.367	Continuing	Continuing
• APN/0593: F-35C CV Series	173.349	166.909	183.924	-	183.924	304.684	308.201	305.506	302.508	645.854	2,792.215
• APN/0147: F-35C Joint Strike Fighter CV	2,633.563	2,592.945	2,084.458	-	2,084.458	2,226.089	2,657.383	2,397.744	3,616.208	16,770.558	62,120.392
• APN/0152C: F-35B Joint Strike Fighter STOVL AP	200.118	193.125	169.389	-	169.389	332.167	406.422	412.017	434.897	1,212.765	6,223.473
• APN/0147C: F-35C Joint Strike Fighter CV AP	182.376	189.425	196.634	-	196.634	329.193	253.829	338.943	319.476	1,496.558	5,959.823
• APN/0152: F-35B Joint Strike Fighter STOVL	2,193.991	2,326.435	2,271.350	-	2,271.350	2,092.755	2,667.807	3,119.715	2,969.676	12,229.706	52,247.633
• RDT&E/0604840N: F-35C C2D2	478.430	543.834	466.186	-	466.186	493.845	466.798	428.356	417.407	Continuing	Continuing
• RDT&E/0604840M: F-35B C2C2	514.462	544.625	480.759	-	480.759	517.621	460.787	449.975	439.567	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

The SDD program consists of a cost-reimbursement contract awarded to Lockheed Martin Aeronautics Company to develop the F-35 Air System, consisting of three aircraft variants and its associated logistics support system, for the U.S. Services and international participants. Similarly, a cost-reimbursement contract was awarded to Pratt & Whitney to develop the F135 propulsion system. Ground and flight testing will be conducted during development to accomplish validation and verification, with the extensive use of modeling and simulation to offset the risk of this large, complex, and concurrent lifecycle program. A comprehensive logistics support environment, including an integrated training system for aircrew, maintenance, and support personnel, is also being developed.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604800N / JNT Strike Fighter (JSF) - E MD	<b>Project (Number/Name)</b> 2261 / Joint Strike Fighter EMD

On 25 April 2011, the Department of Defense terminated the development of the General Electric Rolls-Royce Fighter Engine Team F136 propulsion system.

The F-35 Program has made international involvement a key element of the acquisition strategy. This includes international partnership in the development, production, and sustainment phases of the lifecycle. Additional international participation includes Foreign Military Sales arrangements.

In Fiscal Year 2007, separate cost-type contracts were awarded to Lockheed Martin Aeronautics Company and Pratt & Whitney to begin low rate initial production for F-35 air vehicles, propulsion systems, and sustainment for the fielded systems. Transition to fixed-price-type procurement contracts occurred with the fourth low rate lot. To provide logistics support for delivered aircraft, Performance-Based Logistics cost-type contracts will be awarded to Lockheed Martin Aeronautics Company and Pratt & Whitney.

At the completion of Low Rate Initial Production, a Defense Acquisition Board review, and Milestone Decision Authority approval, the F-35 Program will enter Full Rate Production. Fixed-price procurement contracts will be awarded for F-35 air vehicles and propulsion systems for the U.S. Services and international participants. Multiyear procurement authority for the F-35 Air System will be requested for Full Rate Production. Concurrently, a fixed-price-type Performance Based Logistics contracts for sustainment will be requested to support multi-Service and multi-national requirements.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604800N / JNT Strike Fighter (JSF) - E MD	<b>Project (Number/Name)</b> 2261 / Joint Strike Fighter EMD
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<b>Product Development (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Primary Hardware Development - SDD	C/CPIF	Lockheed Martin : Ft. Worth, TX	32,475.017	0.225	Dec 2022	0.000		0.000		-		0.000	0.000	32,475.242	32,475.251
Prior Year No Longer Funded in FYDP	Various	Various : Various	13,965.497	0.000		0.000		0.000		-		0.000	0.000	13,965.497	13,965.497
<b>Subtotal</b>			46,440.514	0.225		0.000		0.000		-		0.000	0.000	46,440.739	N/A

**Remarks**  
 Contract type prior to 2013 was CPAF.  
 Cumulative Award Fee earned in prior years for Lockheed Martin is 97%.  
 Cumulative Award Fee earned in prior years for Pratt and Whitney is 98%.

<b>Support (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Prior Year No Longer Funded in FYDP	Various	Various : Various	1,394.817	0.000		0.000		0.000		-		0.000	0.000	1,394.817	1,394.817
<b>Subtotal</b>			1,394.817	0.000		0.000		0.000		-		0.000	0.000	1,394.817	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Prior Year Developmental Test & Evaluation Not Funded FYDP (PYDT&E)	Various	Various : Various	2,420.240	0.000		0.000		0.000		-		0.000	0.000	2,420.240	-
<b>Subtotal</b>			2,420.240	0.000		0.000		0.000		-		0.000	0.000	2,420.240	N/A

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy** **Date:** March 2024

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604800N / JNT Strike Fighter (JSF) - E MD	<b>Project (Number/Name)</b> 2261 / Joint Strike Fighter EMD
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Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Prior Year No Longer Funded in FYDP	Various	Various : Various	914.110	0.000		0.000		0.000		-		0.000	0.000	914.110	914.110
<b>Subtotal</b>			914.110	0.000		0.000		0.000		-		0.000	0.000	914.110	N/A

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract	
<b>Project Cost Totals</b>		51,169.681	0.225	0.000	0.000	-	0.000	0.000	51,169.906	N/A

**Remarks**  
Subtotals and totals may not add due to rounding.

NOTE 1:

JSF EMD Includes:  
 USAF PE 0604800F BPAC 653831  
 USN PE 0604800N Project Unit 2261  
 USMC PE 0604800M Project Unit 2262

D&S Includes:  
 USAF PE 0604800F BPAC 653832  
 USN PE 0604800N Project Unit 3352  
 USMC PE 0604800M Project Unit 3350

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Navy</b>		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604800N / JNT Strike Fighter (JSF) - E MD	<b>Project (Number/Name)</b> 2261 / Joint Strike Fighter EMD

		FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<b>JSF Variants - CV, STOVL &amp; CTOL</b>	
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-21	■
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LOT 16 Full Funding / Production / Delivery	■
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LOT 17 Full Funding / Production / Delivery	■
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LOT 18 Full Funding / Production / Delivery	■
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LOT 19 Full Funding / Production / Delivery	■
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LOT 20 Full Funding / Production / Delivery	■
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LOT 21 Full Funding / Production / Delivery	■

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Navy		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604800N / JNT Strike Fighter (JSF) - EMD	<b>Project (Number/Name)</b> 2261 / Joint Strike Fighter EMD

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>JSF Variants - CV, STOVL &amp; CTOL</b>				
Defense Acquisition Reviews: System Development Reviews: Interim Program Review (IPR) FY-21	1	2023	1	2023
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LOT 16 Full Funding / Production / Delivery	2	2023	2	2023
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LOT 17 Full Funding / Production / Delivery	2	2023	2	2023
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LOT 18 Full Funding / Production / Delivery	2	2024	2	2024
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LOT 19 Full Funding / Production / Delivery	2	2025	2	2025
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LOT 20 Full Funding / Production / Delivery	2	2026	2	2026
Production Lots (Full Funding / Production / Delivery: U.S. Aircraft): LOT 21 Full Funding / Production / Delivery	2	2027	2	2027