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

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0101122F / <i>Air-Launched Cruise Missile (ALCM)</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	-	0.571	0.290	0.542	0.000	0.542	0.557	0.567	0.588	0.599	Continuing	Continuing
674797: <i>ALCM Upgrades</i>	-	0.571	0.290	0.542	0.000	0.542	0.557	0.567	0.588	0.599	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The AGM-86B, Air Launched Cruise Missile (ALCM), is a subsonic, air-to-surface strategic nuclear missile, operational since 1982. Armed with a W-80 warhead, it is designed to evade air and ground-based defenses in order to strike targets at any location within any enemy's territory. The ALCM is designed for B-52H internal and external carriage.

RDT&E funds support development of new test and evaluation procedures, software, and equipment. RDT&E funds also provide sustainment solutions for Line Replaceable Units (LRU) and technology insertion to ensure ALCM sustainability supports Air Force strategic nuclear deterrence and Global Strike mission requirements until the capability is replaced by the Long Range Stand Off (LRSO) cruise missile. Additionally, RDT&E funds support aging and surveillance analysis to pro-actively identify components which will degrade system reliability.

The ALCM Test Plan Development and Evaluation program develops plans and procedures for testing nuclear systems, and implements those procedures as directed by the Chairman, Joint Chiefs of Staff (CJCS) and to satisfy the recurring requirements to test Chemical, Biological, Radiological, and Nuclear (CBRN) susceptibility.

An extensive Service Life Extension Program (SLEP) is in place to address age related issues and to ensure reliability and sustainability until replaced by the Long Range Stand Off (LRSO) cruise missile. Technology insertion is anticipated to address serviceability of components at or near end of life.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605827F, 0605828F, 0605829F, 0605831F, 0605832F, 0605833F, 0605898F, 0606398F. In FY23 \$0.0M was expended for civilian pay expenses in this program element, and in FY24 \$0.0M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

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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	0.571	0.290	0.541	0.000	0.541
Current President's Budget	0.571	0.290	0.542	0.000	0.542
Total Adjustments	0.000	0.000	0.001	0.000	0.001
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	0.000			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	0.001	0.000	0.001

**Change Summary Explanation**

No significant changes.

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> ALCM Test Plan Development and Evaluation	0.571	0.290	0.542
<b>Description:</b> Develop test procedures to implement CJCS-directed requirement for Electromagnetic (EM) testing for nuclear systems.			
<b>FY 2024 Plans:</b> - Air Launched Cruise Missile (ALCM) Interface Test Trainer (ITT) instrument installation in support of risk reduction testing for nuclear hardness qualification test. - ALCM ITT receipt, unpack, setup, re-pack and shipment costs in support of risk reduction testing for nuclear hardness qualification test. - On-site support, ALCM Subject Matter Experts in engineering, documentation in support of risk reduction testing for nuclear hardness qualification test.			
<b>FY 2025 Plans:</b> Preparations for ALCM Pylon and Common Strategic Rotary Launcher (CSRL) High-Altitude Electromagnetic Pulse (HEMP) testing in 2026.			
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Funding increased due to the fact that HEMP testing efforts have additional scope than the risk reduction testing.			
<b>Accomplishments/Planned Programs Subtotals</b>	0.571	0.290	0.542

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• MPAF 03 Line Item MALCBG: <i>ALCM, Missile Modifications</i>	33.778	41.494	33.956	-	33.956	28.818	29.272	29.896	8.088	Continuing	Continuing
• MPAF 04 Line Item MALCBG: <i>ALCM, Replenishment Spares</i>	2.508	2.577	2.629	-	2.629	2.669	2.705	2.763	2.818	Continuing	Continuing
• MPAF 04 Line Item 999/Replen <i>Spa...: ALCM, Initial Spares</i>	0.452	0.360	0.365	-	0.365	0.370	0.376	0.384	0.391	Continuing	Continuing

**Remarks**

**E. Acquisition Strategy**

Previously, the Air Launched Cruise Missile (ALCM) was assessed in the nuclear environment for Chemical, Biological, Radiological and Nuclear (CBRN) Survivability for High Altitude Electromagnetic Pulse (HEMP) and Total Ionizing Dose at White Sands Missile Range (WSMR).

Follow-on test development will assess the neutron and gamma component in the nuclear environment for CBRN survivability. Test development and execution will utilize organic and contractor agencies.

Existing contracts are either Indefinite Delivery Indefinite Quantity (IDIQ) or Requirements contracts.

Continuous and on-going efforts to identify reliability issues are addressed through low-cost modifications and Service Life Extension Programs (SLEPs).

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

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0101122F / Air-Launched Cruise Missile (ALCM)	<b>Project (Number/Name)</b> 674797 / ALCM Upgrades
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<b>Test and Evaluation (\$ 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>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
CBRN Test Plan Development & Evaluation	Various	WSMR, Boeing : NV	-	0.446	Mar 2023	0.290	May 2024	0.542	May 2025	-		0.542	Continuing	Continuing	-
<b>Subtotal</b>			-	0.446		0.290		0.542		-		0.542	Continuing	Continuing	N/A

<b>Management Services (\$ 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>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>			
Management and Engineering Services for research, development, test and evaluation on ALCM	C/CPAF	Not specified. : TBD	-	0.105	Jul 2023	-		-		-		-	Continuing	Continuing	-
PMA - Government Costs	Various	Various : Various	-	0.020	Jul 2023	-		-		-		-	Continuing	Continuing	-
<b>Subtotal</b>			-	0.125		-		-		-		-	Continuing	Continuing	N/A

**Remarks**  
Test Development and Evaluation PMA is for Supplies and Travel in support of project number 674797.

	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	-	0.571	0.290	0.542	-	0.542	Continuing	Continuing	N/A

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0101122F / <i>Air-Launched Cruise Missile (ALCM)</i>	<b>Project (Number/Name)</b> 674797 / <i>ALCM Upgrades</i>

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>CBRN Test</b>	
CBRN Test Plan Development	[REDACTED]
CBRN Test Execution	[REDACTED]

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Air Force		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0101122F / <i>Air-Launched Cruise Missile (ALCM)</i>	<b>Project (Number/Name)</b> 674797 / <i>ALCM Upgrades</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>CBRN Test</b>				
CBRN Test Plan Development	2	2023	4	2025
CBRN Test Execution	2	2025	4	2027