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

**Date:** May 2017

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

PE 0101122F I Air-Launched Cruise Missile (ALCM)

Operational Systems Development

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	-	0.451	0.453	0.463	0.000	0.463	0.472	0.482	0.490	0.500	Continuing	Continuing
674797: ALCM Upgrades	-	0.451	0.453	0.463	0.000	0.463	0.472	0.482	0.490	0.500	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 are used to develop new tests and evaluation procedures, software, and equipment, and provide sustainment solutions for Line Replaceable Units (LRU) to ensure ALCM sustainability supports Air Force strategic nuclear deterrence and Global Strike mission requirements through 2030.

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 and to satisfy the recurring requirements to test Chemical, Biological, Radiological, and Nuclear (CBRN) susceptibility.

BA7- 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.

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	<b>FY 2018 Base</b>	FY 2018 OCO	FY 2018 Total
Previous President's Budget	0.451	0.453	0.462	0.000	0.462
Current President's Budget	0.451	0.453	0.463	0.000	0.463
Total Adjustments	0.000	0.000	0.001	0.000	0.001
<ul> <li>Congressional General Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Directed Reductions</li> </ul>	0.000	0.000			
<ul> <li>Congressional Rescissions</li> </ul>	0.000	0.000			
Congressional Adds	0.000	0.000			
<ul> <li>Congressional Directed Transfers</li> </ul>	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

PE 0101122F: Air-Launched Cruise Missile (ALCM)

Change Summary Explanation
No Significant Program Changes

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Air Force

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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force **Date:** May 2017 Appropriation/Budget Activity R-1 Program Element (Number/Name) 3600: Research, Development, Test & Evaluation, Air Force I BA 7: PE 0101122F I Air-Launched Cruise Missile (ALCM) Operational Systems Development C. Accomplishments/Planned Programs (\$ in Millions) **FY 2016** FY 2017 FY 2018 Title: ALCM Test Plan Development and Evaluation 0.451 0.453 0.463 **Description:** Develop test procedures to implement CJCS-directed requirement for Electromagnetic (EM) testing for nuclear systems. FY 2016 Accomplishments: Successfully executed consecutive tests for High Altitude Electromagnetic Pulse (HEMP), High Power Microwave (HPM), and Hazards of Electromagnetic Radiation to Ordnance (HERO). FY 2017 Plans: Began development of test plans and procedures for implementation of Chemical Biological Radiological Neutron (CBRN) testing requirements. FY 2018 Plans: Continue development of test plans and procedures for implementation of Chemical Biological Radiological Neutron (CBRN) testing requirements and Line Replaceable Units (LRU) test plan development and execution. **Accomplishments/Planned Programs Subtotals** 0.451 0.453 0.463 D. Other Program Funding Summary (\$ in Millions) FY 2018 **FY 2018 FY 2018** Cost To FY 2022 Complete Total Cost Line Item FY 2016 FY 2017 **Base** OCO Total FY 2019 FY 2020 FY 2021 MPAF: BA03: Line 25.019 21.762 36.425 0.000 36.425 25.171 24.804 24.981 25.482 Continuing Continuing Item # MALCBG: ALCM. Missile Modifications MPAF: BA04: Line 0.000 3.232 2.942 0.000 2.942 2.300 2.339 2.380 2.428 Continuing Continuing Item # MALCBG: ALCM. Replenishment Spares • OPAF: BA03: Line Item # 1.908 1.710 1.757 0.000 1.757 1.788 1.820 1.853 1.887 Continuing Continuing MALCBG: ALCM, Electronics & Telecomunications Equipment (BP83) MPAF: BA04: Line Item # 999/ 0.000 0.294 0.304 0.000 0.304 0.311 0.321 0.331 0.388 Continuing Continuing

PE 0101122F: Air-Launched Cruise Missile (ALCM)

Repl...: ALCM, Initial Spares

Remarks

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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force		<b>Date:</b> May 2017
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0101122F I Air-Launched Cruise Missile (ALC	·M)
E. Acquisition Strategy The Electro Magnetic (EM) test development is currently funded via Militar	ry Interdepartmental Purchase Requests to White Sand	s Missile Range, NM.
Follow-on EM test development and verification strategy (organic or contra	actor) is expected to be determined 4QFY17 with a focu	is on existing IDIQ contracts.
F. Performance Metrics Please refer to the Performance Base Budget Overview Book for informat Force performance goals and most importantly, how they contribute to our		ose resources are contributing to Air

PE 0101122F: *Air-Launched Cruise Missile (ALCM)* Air Force

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