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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force										Date: March 2014		
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 (ALCM)							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	0.322	0.450	0.450	-	0.450	0.454	0.462	0.471	0.481	Continuing	Continuing
674797: Flight Testing & Navigation Enhancement	-	0.322	0.450	0.450	-	0.450	0.454	0.462	0.471	0.481	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

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 W80 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.

The purpose of this program is to ensure ALCM sustainability through 2030 in support of Air Force strategic nuclear deterrence and global strike mission requirements.

An ALCM Service Life Extension Program (SLEP) was developed to support ALCM Service Life through 2030. The results of SLEP studies identified system components and support equipment that will become non-supportable prior to 2030. Service life extension of this critical weapon is essential to meet United States Strategic Command (USSTRATCOM) deliberate planning commitments. Development funds are required to add capabilities to assist in identifying candidate components for future SLEP efforts.

The Aging and Surveillance program for ALCM continuously assesses critical components such as those in the safe arm and fuze subsystem, navigation/guidance system, and electrical/power distribution system. The program identifies aging trends prior to failures in fielded components that would result in fleet-wide reliability and supportability problems. Development funds are required to update software, test procedures, and test equipment. FY15 funding will complete the Guided Missile Flight Controller sub-component testing and allow for the development of test capabilities for additional ALCM components.

As part of the build phase of the sustaining engineering approach, the program has developed a plan for ALCM sustainment using a computer-aided decision making process called the ALCM Sustainment Enhancement Toolbox (ASET). The first phase of ASET is the ALCM Report Recommendation Tool (ARRT). FY15 funds are required to continue developing test procedures to implement the Chairman of the Joint Chiefs of Staff (CJCS)-directed requirement for High-Altitude Electromagnetic Pulse (HEMP) testing for nuclear systems.

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.

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B. Program Change Summary (\$ in Millions)		FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget		0.431	0.450	0.455	-	0.455
Current President's Budget		0.322	0.450	0.450	-	0.450
Total Adjustments		-0.109	-	-0.005	-	-0.005
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-0.009	-			
• Other Adjustments		-0.100	-	-0.005	-	-0.005
Change Summary Explanation						
FY13: Other Adjustments, -\$.100M due to Sequestration						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2013	FY 2014	FY 2015
Title: ALCM Aging and Surveillance Program (DMS A&S)				0.280	0.185	0.339
Description: Continue Aging and Surveillance program for ALCM system components to identify age-related failure trends and prevent reliability and supportability issues.						
FY 2013 Accomplishments: Continued Aging and Surveillance program for ALCM system components to identify age-related failure trends and prevent reliability and supportability issues. Developed High Altitude Electromagnetic Pulse (HEMP) Test procedures. Continued development of ALCM Sustainment Enhancement Toolbox (ASET).						
FY 2014 Plans: Continue Aging and Surveillance program for ALCM system components at a reduced level of effort due to a higher HEMP test priority. Will resume planned level of Aging and Surveillance effort in FY15.						
FY 2015 Plans: Continue Aging and Surveillance Program for ALCM system components to identify age-related failure trends and prevent reliability and supportability issues.						
Title: ALCM HEMP Test Plan Development (DMS A&S)				0.042	0.225	0.111

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C. Accomplishments/Planned Programs (\$ in Millions)							FY 2013	FY 2014	FY 2015		
Description: Develops test procedures to implement a new CJCS-directed requirement for High-Altitude Electromagnetic Pulse (HEMP) testing for nuclear systems. FY 2013 Accomplishments: Developed test procedures to implement a new CJCS-directed requirement for High-Altitude Electromagnetic Pulse (HEMP) testing for nuclear systems. FY 2014 Plans: Continue development of test procedures to implement CJCS-directed requirement for High-Altitude Electromagnetic Pulse (HEMP) testing for nuclear systems. FY 2015 Plans: Complete development of test procedures to implement CJCS-directed requirement for High-Altitude Electromagnetic Pulse (HEMP) testing for nuclear systems.											
Title: ALCM Sustainment Enhancement Tool (ASET) (DMS A&S) Description: Develop a plan for ALCM sustainment using a computer-aided decision-making process. The first phase of ASET is the ALCM Report Recommendation Tool (ARRT). FY 2013 Accomplishments: N/A FY 2014 Plans: Develop a plan for ALCM sustainment using a computer-aided decision-making process. The first phase of ASET is the ALCM Report Recommendation Tool (ARRT). FY 2015 Plans: N/A							-	0.040	-		
Accomplishments/Planned Programs Subtotals							0.322	0.450	0.450		
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cos
• MPAF: BA03: Line Item # MALCBG: ALCM, Missile Modifications	13.602	6.888	16.083	-	16.083	3.059	-	-	-	Continuing	Continuing

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D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• MPAF: BA04: Line Item # MALCBG: <i>ALCM, Replenishment Spares</i>	5.206	4.561	4.767	-	4.767	2.216	2.258	2.299	2.342	Continuing	Continuing
• OPAF: BA03: Line Item # MALCBG: <i>ALCM, Electronics & Telecommunications Equipment (BP83)</i>	1.632	1.125	1.989	-	1.989	1.920	1.738	1.768	1.800	Continuing	Continuing
Remarks											
E. Acquisition Strategy The ALCM Aging and Surveillance Program is being executed by the prime contractor utilizing annual delivery orders on a Firm Fixed Price (FFP) contract. The HEMP test development will be funded via a Military Interdepartmental Purchase Request (MIPR) to White Sands Missile Range, NM. ARRT is a 206-funded organic workload to the Tinker Software Lab.											
F. Performance Metrics Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force			Date: March 2014
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0101122F / Air-Launched Cruise Missile (ALCM)	Project (Number/Name) 674797 / Flight Testing & Navigation Enhancement	

Air Launched Cruise Missile

