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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2013 Air Force **DATE:** February 2012

<b>APPROPRIATION/BUDGET ACTIVITY</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0101122F: <i>AIR LAUNCHED CRUISE MISSILE</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	3.518	0.803	0.431	-	0.431	0.450	0.458	0.466	0.651	Continuing	Continuing
674797: <i>Flight Testing &amp; Navigation Enhancement</i>	3.518	0.803	0.431	-	0.431	0.450	0.458	0.466	0.651	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**Note**  
In FY2012, Long Range Stand Off (LRSO) efforts were transferred to PE 0101125F, Nuclear Weapon Modernization, project number 657008, in order to support LRSO development.

**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 element is to ensure ALCM sustainability to 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 to 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.

W80 Joint Test Assembly (JTA-8) Replacement was an effort to improve the unsupported W80 JTA-1, a simulated warhead used for flight testing. This replacement effort revised and improved the W80 JTA-1, Interface Control Documents (ICDs), provided integration support, and supported flight test qualification for the improved JTA-8. In FY09, the Research, Development, Test, and Evaluation (RDT&E) effort completed. Minimal effort remained through FY11 to finalize and complete archiving of all data.

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. FY12 funding is to be used for developing hardware and software to update the contractor's testing complex/capabilities in order to add the Guided Missile Flight Controller (GMFC) to the annual Aging & Surveillance testing program.

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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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>
Previous President's Budget	3.613	0.803	0.431	-	0.431
Current President's Budget	3.518	0.803	0.431	-	0.431
Total Adjustments	-0.095	-	-	-	-
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-0.095	-	-	-	-

**Change Summary Explanation**

No significant Changes

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
<p><b>Title:</b> W80 Joint Test Assembly (JTA-8) Replacement Support</p> <p><b>Description:</b> W80 JTA-8 Replacement Support, W80 LEP; revise the W80-1 ICDs, provide integration support, and flight test qualification for improved JTA-8.</p> <p><b>FY 2011 Accomplishments:</b> Complete integration support and flight test qualification. Complete archiving of all data.</p> <p><b>FY 2012 Plans:</b> N/A</p>	0.010	-	-
<p><b>Title:</b> ALCM Aging and Surveillance Program</p> <p><b>Description:</b> Continue aging and surveillance program for ALCM system components to identify age related failure trends and prevent reliability and supportability issues.</p> <p><b>FY 2011 Accomplishments:</b></p>	0.311	0.803	0.431

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
Continue execution of aging and surveillance program for ALCM system components to identify age related failure trends and prevent reliability and supportability issues. <b>FY 2012 Plans:</b> Continue execution of aging and surveillance program for ALCM system components to identify age related failure trends and prevent reliability and supportability issues. Develop hardware and software to update the contractor's testing complex/capabilities in order to add the Guided Missile Flight Controller (GMFC) to the annual A&S testing program. <b>FY 2013 Plans:</b> Continue execution of aging and surveillance program for ALCM system components to identify age related failure trends and prevent reliability and supportability issues.			
<b>Title:</b> Long Range Stand Off (LRSO) <b>Description:</b> Conduct Materiel Solution Analysis (MSA) phase for LRSO effort. <b>FY 2011 Accomplishments:</b> Support Materiel Development Decision (MDD). Initiate LRSO MSA phase activities. <b>FY 2012 Plans:</b> Effort transferred to PE 0101125F, Nuclear Weapons Modernization.	3.197	-	-
<b>Accomplishments/Planned Programs Subtotals</b>	3.518	0.803	0.431

<b>D. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PE 0101122F - ALCM, MPAF, Missil...: ,	10.735	9.955	13.620	0.000	13.620	11.448	11.706	3.153	0.000	Continuing	Continuing
• PE 0101122F - ALCM, MPAF, Replen...: ,	0.264	1.296	5.206	0.000	5.206	4.561	4.838	2.283	2.318	Continuing	Continuing
• PE 010122F - ALCM, OPAF, Electro...: .	1.575	1.582	1.635	0.000	1.635	1.659	1.687	1.716	1.761	Continuing	Continuing
• PE 0101125F, RDT&E AF: <i>Nuclear Weapon Modernization Long Range Stand-Off</i>	0.000	9.926	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

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

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PE 0604932F: <i>Long Range Stand-Off</i>	0.000	0.000	2.004	0.000	2.004	5.000	41.698	209.083	352.923	Continuing	Continuing

**E. Acquisition Strategy**

The ALCM JTA-8 Replacement Support was performed utilizing a Firm Fixed Price (FFP) contract.

The ALCM Aging and Surveillance Program is being executed by the prime contractor utilizing annual delivery orders on a Firm Fixed Price (FFP) contract. A new contract in FY12 will change the period of performance from June-to-June to December-to-December.

**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.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2013 Air Force		<b>DATE:</b> February 2012
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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2013 Air Force		<b>DATE:</b> February 2012
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
W80 JTA-8 Support	1	2011	4	2011
ALCM Aging & Surveillance Program Development	1	2011	4	2017
LRSO MDD	4	2011	4	2011
LRSO MSA Phase	4	2011	2	2013