

**UNCLASSIFIED**

**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 0207161F: <i>Tactical AIM Missiles</i>
--	---

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	5.834	8.023	8.234	-	8.234	9.675	10.775	12.971	13.143	Continuing	Continuing
674132: <i>AIM-9 Product Improvement</i>	5.834	8.023	8.234	-	8.234	9.675	10.775	12.971	13.143	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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

The AIM-9X Sidewinder short-range air-to-air missile is a long-term evolution of the AIM-9 series of fielded missiles. The AIM-9X missile program provides a launch and leave, air combat munition that uses passive infrared (IR) energy for acquisition and tracking of enemy aircraft and complements the Advanced Medium Range Air-to-Air Missile (AMRAAM). Air superiority in the short range air-to-air missile arena is essential and includes first-shot, first-kill opportunity against an enemy employing IR countermeasures. The AIM-9X employs several components common with the AIM-9M (fuse, rocket motor, and warhead). Anti-Tamper features have been incorporated to protect improvements inherent in this design. AIM-9X is a Post Milestone III, Acquisition Category 1C (ACAT 1C) joint-service program with Navy lead.

This budget line item will fund the development, test and integration of software updates to the missile, insensitive munitions improvements and aircraft platform integration, to ensure these capabilities perform in accordance with established requirements.

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	6.040	8.023	8.219	-	8.219
Current President's Budget	5.834	8.023	8.234	-	8.234
Total Adjustments	-0.206	-	0.015	-	0.015
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.175	-			
• Other Adjustments	-0.031	-	0.015	-	0.015

**Change Summary Explanation**

FY2011 adjustments are Congressional General Reductions of -\$0.031

**UNCLASSIFIED**

**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 0207161F: <i>Tactical AIM Missiles</i>
--	---

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
---	---------	---------	--------------	-------------	---------------

<p><b>Title:</b> Product Development</p> <p><b>Description:</b> Continuation of Primary Hardware Development/Pre-Planned Product Improvement efforts for the AIM-9X fuze. Includes Systems Engineering/Program management, as well as support required to ensure AIM-9X missile integration with threshold US Navy aircraft platforms. Includes efforts to update missile components in order to comply with Insensitive Munitions requirements as established by Joint Requirements Oversight Council memo dated 11 February 2009.</p>	3.247	4.490	6.200	-	6.200
---	-------	-------	-------	---	-------

**FY 2011 Accomplishments:**  
Continued refinement of v9.3 Software Algorithm and Code Development in support of the AIM-9X missile testing and integration effort with threshold aircraft platforms.

**FY 2012 Plans:**  
Continued refinement of v9.3 Software Algorithm and Code Development in support of the AIM-9X missile testing and integration effort with threshold aircraft platforms, as well as study insensitive munitions alternatives and risk reduction methods.

**FY 2013 Base Plans:**  
Finalization of v9.3 Software Algorithm and Code Development in support of the AIM-9X missile testing and integration effort with threshold aircraft platforms. Begin Software Algorithm and Code Development on the next version of missile software, as well as continue study on insensitive munitions alternatives and risk reduction methods. Continued support of Operational Test anomaly resolution.

**FY 2013 OCO Plans:**  
N/A

<p><b>Title:</b> Test and Evaluation</p> <p><b>Description:</b> Test &amp; Evaluation and associated Governmental/contractor support required to ensure the AIM-9X missile integration with threshold aircraft platforms.</p> <p><b>FY 2011 Accomplishments:</b> Completed Operational Testing of missile software rehosting into the Pre-Planned Product Improvements that resolved obsolescence associated with the Computer Processor Unit on the Captive Air Training Missile. In support of MS-C, the program successfully completed an Operational Assessment of the performance</p>	2.587	3.533	2.034	-	2.034
--	-------	-------	-------	---	-------

**UNCLASSIFIED**

**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 0207161F: <i>Tactical AIM Missiles</i>
--	---

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
requirements defined in the Capability Production Document. Program is executing Developmental Test and Integration.					
<b>FY 2012 Plans:</b> Complete final phase of Operational Testing of missile software rehosting into new AIM-9X components. Complete Integrated (Development and Operational) Testing and begin Operational Testing of the follow on missile software (v9.3) for the AIM-9X missile integration. Begin Developmental Testing of next version of missile software.					
<b>FY 2013 Base Plans:</b> Complete Operational Testing of the follow on missile software (v9.3) for the AIM-9X missile integration. Continue Developmental Testing and begin Integrated (Development and Operational) Testing of next version of missile software.					
<b>FY 2013 OCO Plans:</b> N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	5.834	8.023	8.234	-	8.234

<b>D. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013 Base</b>	<b>FY 2013 OCO</b>	<b>FY 2013 Total</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• PE 0207161F, Tactical AIM Missil...: <i>Missile Mods, USAF</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing
• PE 0207161F, Tactical AIM Mi (1)...: <i>Sidewinder (AIM-9X)</i>	64.166	88.769	88.020	0.000	88.020	82.729	131.786	85.401	86.706	1,887.298	3,003.001
• PE 0207161F, Tactical AIM Mi (2)...: <i>Replen Spares, USAF</i>	3.492	7.866	8.854	0.000	8.854	10.728	10.881	11.267	11.440	156.200	220.223
• PE 0207161F, Tactical AIM Mi (3)...: <i>Initial Spares, USAF</i>	1.402	1.659	1.651	0.000	1.651	1.650	1.743	1.803	1.831	94.949	106.688
• PE 0207161N, Tactical AIM Missil...: <i>Tactical AIM Missile, USN</i>	0.906	8.765	21.107	0.000	21.107	29.441	58.084	61.986	58.040	11.239	603.033
• PE 0207162N, Sidewinder, WPN: <i>Sidewinder, USN</i>	52.016	42.198	80.226	0.000	80.226	88.262	88.350	89.524	96.088	1,331.573	2,241.508

**UNCLASSIFIED**

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

**APPROPRIATION/BUDGET ACTIVITY**

3600: *Research, Development, Test & Evaluation, Air Force*  
BA 7: *Operational Systems Development*

**R-1 ITEM NOMENCLATURE**

PE 0207161F: *Tactical AIM Missiles*

**E. Acquisition Strategy**

The LRIP, Lot 4, Firm-Fixed-Price (FFP) contract was awarded in April 2004. Assistant Secretary of the Navy for (Research Development & Acquisitions) approved the Full-Rate Production (FRP) decision in May 2004. FRP 1, Lot 5 contract was awarded November 2004. FRP 2, Lot 6 through FRP 3 Lot 7 contracts were awarded November 2006. Rewards or penalties are provided depending on Raytheon Missile Systems performance relative to the Procurement Price Commitment Curve (PPCC) for Lot's 5 through 7 (FY2005 - FY2007). FRP 4 Lot 8 (FY2008) contract was re-negotiated outside of the PPCC, and was awarded in January 2008. The FRP 5 Lot 9 (FY2009) contract was awarded in June 2009, and incorporated the new electronics unit into the CATM resolving critical obsolescence issues, as well as, a low quantity of test articles to prove out the capability and producibility of the AIM-9X missile. The FRP 6 Lot 10 (FY2010) contract was awarded in June 2010 to procure Block I AUR missiles as well as additional tactical test articles.

Block II: Milestone C decision for Low Rate Initial Production (LRIP) was held on 24 June 2011, and the program entered into LRIP contracts for Block II in FY2011 and FY2012. The program will enter the final LRIP in FY2013, followed by Block II FRP in FY2014 and beyond.

**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.

**UNCLASSIFIED**

<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2013 Air Force		<b>DATE:</b> 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 0207161F: <i>Tactical AIM Missiles</i>	<b>PROJECT</b> 674132: <i>AIM-9 Product Improvement</i>

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2013 Air Force		<b>DATE:</b> 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 0207161F: <i>Tactical AIM Missiles</i>	<b>PROJECT</b> 674132: <i>AIM-9 Product Improvement</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Acquisition Milestone - Block II: Milestone C	3	2011	3	2011
T&E Milestones: Block II Development Test: v9.2 Operational Test CATM (OT-IIIIC)	1	2011	1	2011
T&E Milestones: Block II Development Test: v9.3 Development Test (DT-B1)	1	2011	2	2012
T&E Milestones: Block II Development Test: v9.3 Integrated Development/Operational Test (IT-B1)	1	2011	2	2012
T&E Milestones: Block II Development Test: v9.3 Operational Test (OT-C1)	3	2012	3	2013
T&E Milestones: Block II Development Test: v9.x Development Test (DT-D1)	3	2012	1	2015
T&E Milestones: Block II Development Test: v9.x Integrated Development/Operational Test (IT-D1)	4	2013	2	2016
Production: Block II Contract Award: Low Rate Initial Production (LRIP 1)	4	2011	4	2011
Production: Block II Contract Award: LRIP 2	1	2012	1	2012
Production: Block II Contract Award: LRIP 3	2	2013	2	2013