

**UNCLASSIFIED**

PE NUMBER: 0207161F  
 PE TITLE: Tactical AIM Missiles

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2007</b>
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0207161F Tactical AIM Missiles</b>
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Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	14.974	8.817	7.927	5.816	6.073	6.264	6.391	6.526	Continuing	TBD
4132 AIM-9 Product Improvement	14.974	8.817	7.927	5.816	6.073	6.264	6.391	6.526	Continuing	TBD

**(U) A. Mission Description and Budget Item Justification**

The AIM-9X is a long-term evolution of the AIM-9 series of fielded air-to-air missiles. The AIM-9X (Sidewinder) short range air-to-air 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 to the AIM-9M. Anti-Tamper features are incorporated to protect improvements inherent in the AIM-9X design. AIM-9X is an Acquisition Category 1C (ACAT 1C) joint-service program with Navy lead. As a natural course of program evolution, pre-planned product improvements (P3I) and hardware/software updates are being done to meet evolving threats and warfighter requirements.

The program is in full-rate production (FRP) with Lot 7 contract award Dec 06.

The program is currently in budget activity 7 - Operational System Development because it modifies an existing weapon system.

**(U) B. Program Change Summary (\$ in Millions)**

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	15.416	8.850	7.897	5.805
(U) Current PBR/President's Budget	14.974	8.817	7.927	5.816
(U) Total Adjustments	-0.442	-0.033		
(U) Congressional Program Reductions				
Congressional Rescissions	-0.001	-0.033		
Congressional Increases				
Reprogrammings	-0.038			
SBIR/STTR Transfer	-0.403			

**(U) Significant Program Changes:**

None.

Exhibit R-2a, RDT&E Project Justification

DATE  
February 2007

BUDGET ACTIVITY <b>07 Operational System Development</b>					PE NUMBER AND TITLE <b>0207161F Tactical AIM Missiles</b>			PROJECT NUMBER AND TITLE <b>4132 AIM-9 Product Improvement</b>		
Cost (\$ in Millions)	FY 2006 Actual	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
4132 AIM-9 Product Improvement	14.974	8.817	7.927	5.816	6.073	6.264	6.391	6.526	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**

The AIM-9X is a long-term evolution of the AIM-9 series of fielded air-to-air missiles. The AIM-9X (Sidewinder) short range air-to-air 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 to the AIM-9M. Anti-Tamper features are incorporated to protect improvements inherent in the AIM-9X design. AIM-9X is an Acquisition Category 1C (ACAT 1C) joint-service program with Navy lead. As a natural course of program evolution, pre-planned product improvements (P3I) and hardware/software updates are being done to meet evolving threats and warfighter requirements.

The program is in full-rate production (FRP) with Lot 7 contract award Dec 06.

The program is currently in budget activity 7 - Operational System Development because it modifies an existing weapon system.

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Raytheon Missile Systems (RMS) P3I Contract	11.097	5.381	1.284	1.222
(U) Software/OPF Upgrade	2.300	1.030	1.611	1.162
(U) DT&E/OT&E for P3I software updates and FOT&E efforts	1.127	1.956	4.569	2.961
(U) In-house/CSS Support	0.450	0.450	0.463	0.471
(U) Total Cost	14.974	8.817	7.927	5.816

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

	<u>FY 2006</u> Actual	<u>FY 2007</u> Estimate	<u>FY 2008</u> Estimate	<u>FY 2009</u> Estimate	<u>FY 2010</u> Estimate	<u>FY 2011</u> Estimate	<u>FY 2012</u> Estimate	<u>FY 2013</u> Estimate	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) DOD PE (0603715D)										25.000
(U) Tactical AIM Missile Modification (BP21)										30.817
(U) Tactical AIM Missile Procurement	50.228	49.727	58.920	80.409	80.586	63.355	64.581	65.952	Continuing	TBD
(U) SEEK EAGLE (PE_0207590F)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.028

Congressional language directed the program to report as a missile procurement, starting in FY02, and not as a missile modification.

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2007

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0207161F Tactical AIM Missiles

PROJECT NUMBER AND TITLE

4132 AIM-9 Product Improvement

(U) **D. Acquisition Strategy**

After a full and open competition, a Cost Plus Incentive Fee/Award Fee contract was awarded to Hughes Missile Systems Company (now Raytheon Systems Corp (RSC)) to complete missile system development and prepare for production. This EMD contract included three Fixed Price Options for Low Rate Initial Production (LRIP) Lots 1, 2, and 3. Per an ADM signed in May 2003, FRP Lot 4 was changed to LRIP 4 which was awarded in Apr 2004. Milestone III decision with advice from the Air Force Acquisition Executive, was approved in May 04. FRP 1, Lot 5, was awarded in Nov 04; FRP 2, Lot 6 was awarded in Dec 05, and FRP 3 Lot 7 was awarded in Dec 06. It is a Firm Fixed Price (FFP) with incentives provided if the contractor meets or beats his Procurement Price Commitment Curve (PPCC), a quantity price curve provided by RSC with the EMD proposal. Lot 7 is the last lot under the current PPCC. FRP's 4-8, (Lots 8-12) will be procured under a new contract and a new PPCC.

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**Exhibit R-3, RDT&E Project Cost Analysis**

DATE  
**February 2007**

BUDGET ACTIVITY				PE NUMBER AND TITLE						PROJECT NUMBER AND TITLE					
<b>07 Operational System Development</b>				<b>0207161F Tactical AIM Missiles</b>						<b>4132 AIM-9 Product Improvement</b>					
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>	
(U) <u>Product Development</u>															
Hughes	C/CPIF											0.000	0.000		
Raytheon	C/CPIF											0.000	0.000		
Raytheon	C/CPIF											Continuing	TBD		
Raytheon Software/OFP Upgrades				2.300	Dec-05	1.030	Dec-06	1.611	Dec-07	1.162	Dec-08	Continuing	TBD		
Raytheon P3I Contract				11.097	Dec-05	5.381	Dec-06	1.284	Dec-07	1.222	Dec-08	Continuing	TBD		
Boeing	C/CPIF												0.000		
Engineering Services	Various											Continuing	TBD		
Program Management*	PO											Continuing	TBD		
Subtotal Product Development			0.000	13.397		6.411		2.895		2.384		Continuing	TBD	0.000	
Remarks:	Note*: Based on a Memorandum of Agreement, RDT&E program costs includes Navy PMA working capital funded personnel funded at 50%/50% ratio per Service.														
(U) <u>Support</u>															
Various Contracts	FFP											Continuing	TBD		
In House Support	N/A			0.450	Nov-05	0.450	Nov-06	0.463	Dec-07	0.471	Dec-08	Continuing	TBD		
Subtotal Support			0.000	0.450		0.450		0.463		0.471		Continuing	TBD	0.000	
Remarks:															
(U) <u>Test &amp; Evaluation</u>															
Field Activities	PO			1.127	Nov-05	1.956	Nov-06	4.569	Dec-07	2.961	Dec-08	Continuing	TBD		
Subtotal Test & Evaluation			0.000	1.127		1.956		4.569		2.961		Continuing	TBD	0.000	
Remarks:															
(U) <u>Management</u>															
Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:															
(U) Total Cost			0.000	14.974		8.817		7.927		5.816		Continuing	TBD	0.000	

Exhibit R-4, RDT&E Schedule Profile

DATE  
February 2007

BUDGET ACTIVITY  
07 Operational System Development

PE NUMBER AND TITLE  
0207161F Tactical AIM Missiles

PROJECT NUMBER AND TITLE  
4132 AIM-9 Product Improvement

# AIM-9X Program Schedule

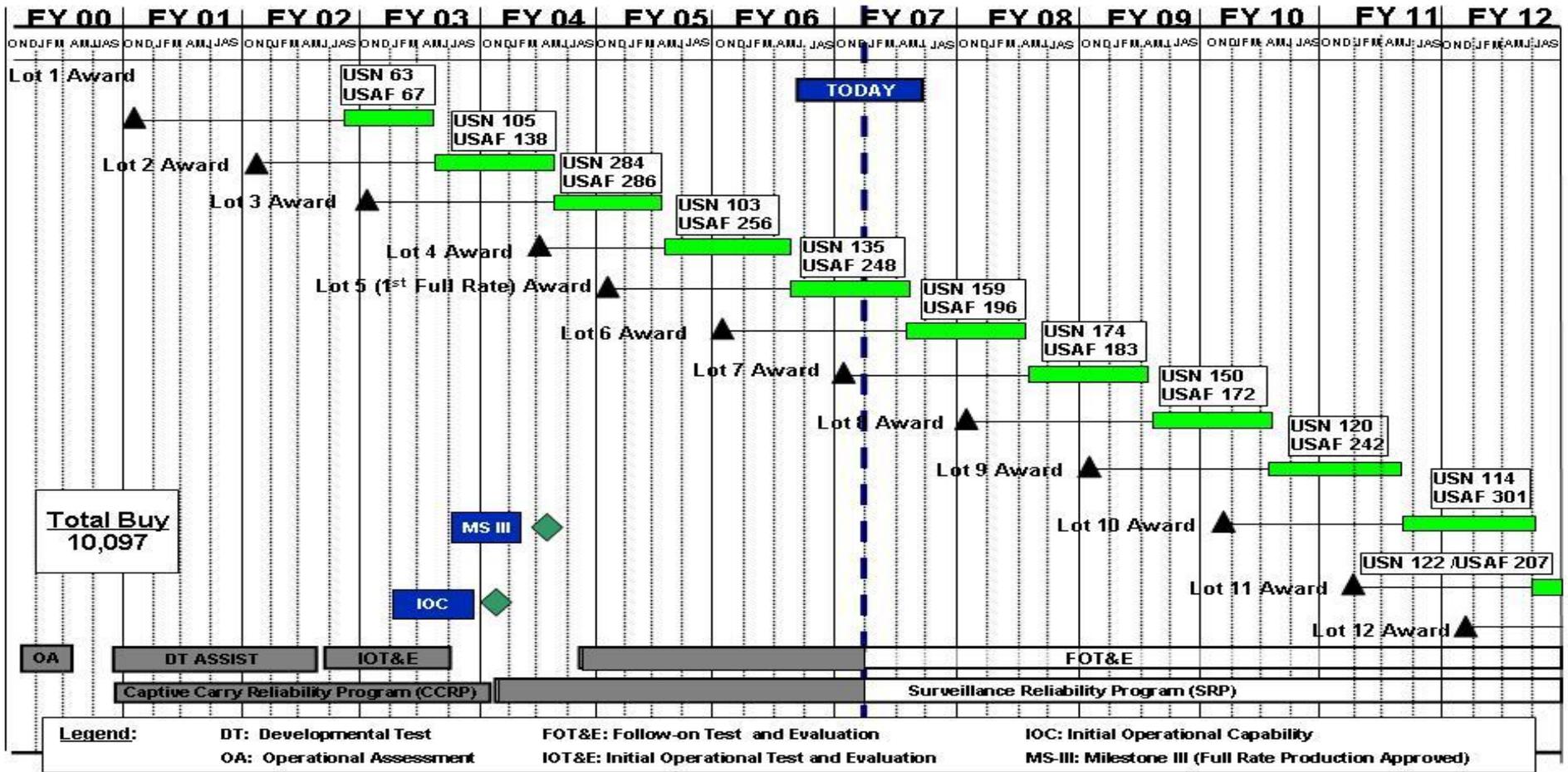


Exhibit R-4a, RDT&E Schedule Detail

DATE

February 2007

BUDGET ACTIVITY <b>07 Operational System Development</b>	PE NUMBER AND TITLE <b>0207161F Tactical AIM Missiles</b>	PROJECT NUMBER AND TITLE <b>4132 AIM-9 Product Improvement</b>
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(U) <u>Schedule Profile</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) FRP Award (Lots 6-9)	1Q	1Q	1Q	1Q
(U) AOTD P3I	1Q	1Q	1Q	3Q
(U) DT-IIIB	1Q	1Q		
(U) OT-IIIB		2Q	1Q	
(U) DT-IIIC			2Q	2Q
(U) OT-IIIC				1Q

Note: LRIP 4 Award was in 3Q 2004; RAA/IOC 2Q 2004; Milestone 3 was in 3Q 2004.