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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 0207161F I Tactical AIM Missiles							
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	48.942	5.972	12.760	29.739	-	29.739	46.133	51.765	13.106	13.356	4.435	226.208
674132: AIM-9 Product Improvement	48.942	5.972	12.760	29.739	-	29.739	46.133	51.765	13.106	13.356	4.435	226.208
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
MDAP/MAIS Code: 442												
# The FY 2015 OCO Request will be submitted at a later date.												
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. AIM-9X Block I concluded in FY 2011 and all funding/quantity data in the documents are associated with Block II activities. 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.												

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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		8.234	15.460	30.110	-	30.110
Current President's Budget		5.972	12.760	29.739	-	29.739
Total Adjustments		-2.262	-2.700	-0.371	-	-0.371
• Congressional General Reductions		-0.009	-			
• Congressional Directed Reductions		-1.600	-2.700			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-0.108	-			
• Other Adjustments		-0.545	-	-0.371	-	-0.371
Change Summary Explanation						
FY13 reduction of -\$1.600M for congressional mark for Congressional Directed reduction						
FY13 reduction of -\$0.545M for sequestration						
FY14 reduction of -\$2.700M for Congressional directed reduction						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2013	FY 2014	FY 2015
Title: Air Intercept Missile - 9X, Product Development				5.972	11.230	25.481
Description: Continuation of Primary Hardware Development/Pre-Planned Product Improvement efforts for the AIM-9X. Includes Systems Engineering/Program management, as well as associated Governmental and contractor support required to ensure AIM-9X missile integration with threshold aircraft platforms. Includes efforts to redesign missile components in order to resolve Block II / Block III common component obsolescence, as well as to comply with the Insensitive Munitions (IM) requirements as established by Joint Requirements Oversight Council memo dated 11 February 2009.						
FY 2013 Accomplishments: Continued support of Block II integration and Operational Test (OT) anomaly resolution. Began Software Algorithm and Code Development on version 9.4 (v9.4) Block II missile software. Studied IM alternatives and risk reduction methods.						
FY 2014 Plans: Continue support of Block II integration and OT anomaly resolution. Continue development of v9.4 Block II software and integration efforts with threshold aircraft platforms including improvements associated with the F-15C/D suite 9 OFP to utilize full capability of the Block II missile. Continue study on IM alternatives and risk reduction methods.						
FY 2015 Plans:						

UNCLASSIFIED

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C. Accomplishments/Planned Programs (\$ in Millions)										FY 2013	FY 2014	FY 2015
Continue support of Block II integration and OT anomaly resolution. Continue development of v9.4 Block II software and integration efforts with threshold aircraft platforms including improvements including improvements associated with the F-15C/D suite 9 OFP to utilize full capability of the Block II missile. Continue study on IM alternatives and risk reduction methods.												
Title: Air Intercept Missile - 9X, Test and Evaluation										-	1.530	4.258
Description: Funding required for Test & Evaluation required to ensure the AIM-9X missile integration with threshold aircraft platforms.												
FY 2013 Accomplishments: Continued Block II Operational Testing (OT-C1).												
FY 2014 Plans: Resume/continue OT-C1 for Block II. Begin Developmental Test (DT-D1) of v9.4 Block II software well as improvements associated with the F-15C/D suite 9 OFP to utilize full capability of the Block II missile.												
FY 2015 Plans: Complete OT-C1 and await final IOT&E and BLRIP reports. Continue DT-D1, and begin Integrated Testing (IT-D1), of v9.4 Block II software including improvements associated with the F-15C/D suite 9 OFP to utilize full capability of the Block II missile.												
Accomplishments/Planned Programs Subtotals										5.972	12.760	29.739
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: BA02: Line Item # M09HAI: Sidewinder (AIM-9X) (BP-20)	72.242	100.590	132.995	-	132.995	156.234	181.949	114.384	116.498	969.566	2,009.588	
• MPAF: BA04: Line Item # 000999: Replen Spares, USAF	8.854	10.728	10.720	-	10.720	10.933	11.143	11.347	11.556	Continuing	Continuing	
• MPAF: BA04: Line Item # 000999: Inital Spares, USAF	1.593	1.650	1.717	-	1.717	1.750	1.784	1.816	1.850	48.532	63.723	
• RDT&E,N: BA07: PE 0207161N: Tactical AIM Missile, USN	18.889	15.453	47.258	-	47.258	85.567	112.077	88.564	100.801	Continuing	Continuing	
• WPN: BA07: PE 0207162N, Sidewind...: Sidewinder, USN	69.032	101.689	73.928	-	73.928	97.245	105.109	106.805	109.109	786.351	1,922.177	

UNCLASSIFIED

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D. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2015</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Complete</u>	<u>Total Cost</u>
Remarks Congressional language directed the program to report as a missile procurement, starting in FY2002, and not as a missile modification.											
E. Acquisition Strategy In Jun 2011 the Milestone Decision Authority (MDA) established the AIM-9X Block II missile program for entry at Milestone C and Low Rate Initial Production (LRIP). The 2366 A/B certification and Acquisition Program Baseline for AIM-9X Block II was signed 23 Dec 2011 and the Block I program was terminated. The LRIP-1 (Lot 11) contract was awarded in Sep 2011, LRIP-2 (Lot 12) was awarded in Dec 2011 and LRIP-3 was awarded August 2013. Pending MDA approval the program will award LRIP-4 in FY 2014. Full Rate Production (FRP) decision is planned for FY 2015.											
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

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Air Force												Date: March 2014			
Appropriation/Budget Activity 3600 / 7						R-1 Program Element (Number/Name) PE 0207161F / <i>Tactical AIM Missiles</i>				Project (Number/Name) 674132 / <i>AIM-9 Product Improvement</i>					
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
RMS Software/OFP Upgrade	SS/CPFF	RMS : Tucson, AZ	20.866	4.569	Jan 2013	5.699	Jan 2014	12.391	Jan 2015	-		12.391	86.858	130.383	130.383
Munitions Improvement Study (RG)	SS/CPFF	RMS : Tucson, AZ	0.000	-		1.695	Jan 2014	2.170	Jan 2015	-		2.170	12.808	16.673	16.673
Munitions Improvement Study (USG)	MIPR	NAWC WD : China Lake, CA	0.500	1.403	Dec 2012	1.695	Jan 2014	2.170	Jan 2015	-		2.170	12.811	18.579	18.579
Aircraft Integration	SS/CPFF	Boeing : St. Louis, MO	0.000	-		1.600	Dec 2013	8.200	Dec 2014	-		8.200	4.900	14.700	14.700
RMS P3I Contract	Various	Various : ,	9.381	-		-		-		-		-	-	9.381	9.381
Subtotal			30.747	5.972		10.689		24.931		-		24.931	117.377	189.716	189.716
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			-	-		-		-		-		-	-	-	-
Test and Evaluation (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DT&E/OT&E for P3I	PO	Various : Various,	14.967	-		1.530	Mar 2014	1.558	Mar 2015	-		1.558	6.516	24.571	24.571
DT&E/OT&E for F-15C/D	PO	Various : Various,	0.000	-		-		2.700	Mar 2015	-		2.700	2.600	5.300	5.300
Subtotal			14.967	-		1.530		4.258		-		4.258	9.116	29.871	29.871
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
PMA	MIPR	PMA-259 : Patuxent River, MD	3.228	-	Jan 1901	0.541	Jan 2014	0.550	Jan 2015	-		0.550	2.302	6.621	6.621

UNCLASSIFIED

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Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			3.228	-		0.541		0.550		-		0.550	2.302	6.621	6.621
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			48.942	5.972		12.760		29.739		-		29.739	128.795	226.208	226.208
Remarks Funding in FY11 and out is for the Block II program only. The AIM-9X Block I program costs for FY11 and prior are \$233.583M. The AIM-9X Block II program costs for FY12 and prior are \$48,942M.															

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PE 0207161F: *Tactical AIM Missiles* **UNCLASSIFIED**
 Air Force Page 7 of 8 R-1 Line #141

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Air Force			Date: March 2014
Appropriation/Budget Activity 3600 / 7	R-1 Program Element (Number/Name) PE 0207161F / <i>Tactical AIM Missiles</i>	Project (Number/Name) 674132 / <i>AIM-9 Product Improvement</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
T&E Milestones: Block II Development Test: v9.3 Operational Test (OT-C1)	1	2013	1	2015
T&E Milestones: Block II Development Test: v9.4 Development Test (DT-D1)	3	2014	1	2017
T&E Milestones: Block II Development Test: v9.4 Integrated Development/Operational Test (IT-D1)	4	2015	1	2017
T&E Milestones: Block II Development Test v9.4 Operational Test (OT-D1)	2	2017	2	2019
Production: Block II Contract Award: Low Rate Initial Production Lot 13 / LRIP 3	4	2013	4	2013
Production: Block II Contract Award: Low Rate Initial Production (LRIP 4)	2	2014	2	2014
Production: Block II Contract Award: Full Rate Production (FRP 1)	2	2015	2	2015
Production: Block II Contract Award: Full Rate Production (FRP 2)	2	2016	2	2016
Production: Block II Contract Award: Full Rate Production (FRP 3)	2	2017	2	2017
Production: Block II Contract Award: Full Rate Production (FRP 4)	2	2018	2	2018
Production: Deliveries: Low Rate Initial Production Lot 11 / LRIP 1	1	2013	4	2013
Production: Deliveries: Low Rate Initial Production Lot 12 / LRIP 2	4	2013	4	2014
Production: Deliveries: Low Rate Initial Production Lot 13 / LRIP 3	4	2014	4	2015
Production: Deliveries: Low Rate Initial Production Lot 14 / LRIP 4	4	2015	4	2016
Production: Deliveries: Full Rate Production Lot 15 / FRP 1	4	2016	4	2017
Production: Deliveries: Full Rate Production Lot 16 / FRP 2	4	2017	4	2018
Production: Deliveries: Full Rate Production Lot 17 / FRP 3	4	2018	4	2018