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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207161F: Tactical AIM Missiles							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	5.585	5.915	6.040	0.000	6.040	6.135	6.235	6.330	6.423	Continuing	Continuing
674132: AIM-9 Product Improvement	5.585	5.915	6.040	0.000	6.040	6.135	6.235	6.330	6.423	Continuing	Continuing
A. Mission Description and Budget Item Justification											
<p>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.</p> <p>The program is in full-rate production (FRP) with Lot 9 contract awarded June 2009. Beginning with the Lot 9 contract award, the missile will include the preplanned product improvements (P3I) that resolve critical obsolescence issues such as the Active Optical Target Detector (i.e. Fuze) and the new CPU processor, as well as, improvements to the performane of the missile such as data link capabilities, battery improvements, safety improvements and appropriate software updates. This budget line item will fund the development, test and integration of software updates to the missile, as well as, aircraft platform integration, to ensure these capabilities perform in accordance with established requirements. 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> <p>The program is in budget activity 7 - Operational System Development - modifies an existing weapon system.</p>											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0207161F: Tactical AIM Missiles			
BA 7: Operational Systems Development					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	5.732	5.915	0.000	0.000	0.000
Current President's Budget	5.585	5.915	6.040	0.000	6.040
Total Adjustments	-0.147	0.000	6.040	0.000	6.040
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	-0.147	0.000	6.040	0.000	6.040
Change Summary Explanation					
The FY 2010 President's Budget submittal did not reflect FY 2011 through FY 2015 funding. Therefore, explanation of changes between the two budget positions cannot be made in a relevant manner.					

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207161F: Tactical AIM Missiles				PROJECT 674132: AIM-9 Product Improvement			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
674132: AIM-9 Product Improvement	5.585	5.915	6.040	0.000	6.040	6.135	6.235	6.330	6.423	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.											
The program is in full-rate production (FRP) with Lot 9 contract awarded June 2009. Beginning with the Lot 9 contract award, the missile will include the preplanned product improvements (P3I) that resolve critical obsolescence issues such as the Active Optical Target Detector (i.e. Fuze) and the new CPU processor, as well as, improvements to the performane of the missile such as data link capabilities, battery improvements, safety improvements and appropriate software updates. This budget line item will fund the development, test and integration of software updates to the missile, as well as, aircraft platform integration, to ensure these capabilities perform in accordance with established requirements. 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.											
The program is in budget activity 7 - Operational System Development - modifies an existing weapon system.											
B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: Continue Raytheon Missile Systems (RMS) P3I Contract							4.352	0.535	0.000	0.000	0.000

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B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p><i>FY 2009 Accomplishments:</i> In FY09: Funded primary hardware development/P3I efforts for the AOTD (Block II fuze). Provided system engineering/program management, as well as, support required to ensure missile integration with threshold AF/Navy aircraft platforms. Included effort to update missile components to comply with IM requirements established by a JROCM. Continued efforts to qualify/integrate the AOTD for the Block II missile.</p> <p><i>FY 2010 Plans:</i> In FY10: Funds primary hardware development/P3I efforts for the AOTD (Block II fuze). Includes effort to update missile components to comply with IM requirements established by a JROCM. Completed efforts to qualify/integrate the AOTD for the Block II missile.</p> <p><i>FY 2011 Base Plans:</i> In FY11: N/A.</p> <p><i>FY 2011 OCO Plans:</i> In FY11 OCO: N/A</p>					
MAJOR THRUST: Continue Software/Operational Flight Program (OFP) Upgrades	0.815	2.343	3.247	0.000	3.247
<p><i>FY 2009 Accomplishments:</i> In FY09: Funded the development, test and integration of software updates to the missile, as well as, aircraft platform integration, to ensure these capabilities perform in accordance with established requirements. Provided system engineering/program management and support required to ensure missile integration with threshold AF/Navy aircraft platforms. Initiated v9.3 algorithm and code development in support of the missile integration effort.</p>					

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: In FY10: Funds the development, test and integration of software updates to the missile, as well as, aircraft platform integration, to ensure these capabilities perform in accordance with established requirements. Provides system engineering/program management and support required to ensure missile integration with threshold AF/Navy aircraft platforms. Continues the v9.3 algorithm and code development in support of the missile integration effort.						
FY 2011 Base Plans: In FY11: Funds the development, test and integration of software updates to the missile, as well as, aircraft platform integration, to ensure these capabilities perform in accordance with established requirements. Provides system engineering/program management and support required to ensure missile integration with threshold AF/Navy aircraft platforms. Funds the v9.4 algorithm and code development in support of the missile integration effort.						
FY 2011 OCO Plans: In FY11 OCO: N/A						
MAJOR THRUST: Continue DT&E/OT&E for P3I updates and FOT&E efforts		0.418	3.037	2.793	0.000	2.793
FY 2009 Accomplishments: In FY09: Funded T&E and associated Governmental test support required to ensure the missile integration with threshold AF/Navy aircraft platforms. Initiated Block II v9.2 DT for missile integration. Continued to provide for in-house and contractor support.						
FY 2010 Plans: In FY10: Funds T&E and associated Governmental test support required to ensure the missile integration with threshold AF/Navy aircraft platforms. Funds continuation of Block II v9.2 DT and initiates Block II v9.3 DT for missile integration. Continues to provide for in-house and contractor support.						

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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2011 Base Plans: In FY11: Funds T&E and associated Governmental test support required to ensure the missile integration with threshold AF/Navy aircraft platforms. Funds continuation of Block II v9.3 DT for missile integration. Continues to provide for in-house and contractor support.											
FY 2011 OCO Plans: In FY11 OCO: N/A											
Accomplishments/Planned Programs Subtotals						5.585	5.915	6.040	0.000	6.040	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• Activity Not Provided: <i>PE 0603715D</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25.000
• PE 0207161F: <i>Tactical AIM Missile Modification (BP21)</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	30.817
• PE 0207161F (1): <i>Tactical AIM Missile Procurement (BP20)</i>	76.995	78.527	64.523	0.000	64.523	59.723	58.654	56.691	56.379	0.000	0.000
• PE 0207161F (2): <i>Tactical AIM Missile Procurement (BP25)</i>	4.238	0.817	3.514	0.000	3.514	7.879	8.848	10.749	10.860	0.000	0.000
• PE 0207161F (3): <i>Tactical AIM Missile Procurement (BP26)</i>	1.235	1.571	1.558	0.000	1.558	1.662	1.650	1.653	1.739	0.000	0.000
• PE 0207590F: <i>SEEK EAGLE</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	10.028
D. Acquisition Strategy											
The Low-Rate Initial Production (LRIP) 4, Lot 4, Firm-Fixed-Price (FFP) contract was awarded Apr 04. ASN(RD&A) approved the FRP decision in May 04. FRP 1, Lot 5 contract awarded Nov 04. FRP 1, Lot 5 through FRP 3, Lot 7 contracts awarded Nov 06. Rewards/penalties are provided depending on RMS performance relative											

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<p>to the Procurement Price Commitment Curve (PPCC) for Lots 5 through 7 (FY05 through FY07). FRP 4, Lot 8 (FY08) contract was negotiated outside of the PPCC, and was awarded in Jan 08. The FRP 5, Lot 9 (FY09) contract was awarded in Jun 09, and will be the first lot of Block II missiles (to include Tactical Test Missiles for Operational Testing, as well as, Captive Air Training Missiles for fleet release) and incorporates P3I that resolve critical obsolescence issues, as well as, missile performance improvements.</p> <p>E. Performance Metrics</p> <p>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.</p>		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010																																																																	
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Product Development (\$ in Millions) <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Cost Category Item</th> <th rowspan="2">Contract Method & Type</th> <th rowspan="2">Performing Activity & Location</th> <th rowspan="2">Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th rowspan="2">Cost To Complete</th> <th rowspan="2">Total Cost</th> <th rowspan="2">Target Value of Contract</th> </tr> <tr> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>RMS Software/OFP Upgrade</td> <td>C/CPIF</td> <td>RMS Tucson, AZ</td> <td>0.815</td> <td>2.343</td> <td>Dec 2009</td> <td>3.247</td> <td>Dec 2010</td> <td>0.000</td> <td></td> <td>3.247</td> <td>Continuing</td> <td>Continuing</td> <td>0.000</td> </tr> <tr> <td>RMS P3I Contract</td> <td>C/CPIF</td> <td>RMS Tucson, AZ</td> <td>4.352</td> <td>0.535</td> <td>Dec 2009</td> <td>0.000</td> <td>Dec 2010</td> <td>0.000</td> <td></td> <td>0.000</td> <td>Continuing</td> <td>Continuing</td> <td>0.000</td> </tr> <tr> <td colspan="3" style="text-align: right;">Subtotal</td> <td>5.167</td> <td>2.878</td> <td></td> <td>3.247</td> <td></td> <td>0.000</td> <td></td> <td>3.247</td> <td></td> <td></td> <td>0.000</td> </tr> </tbody> </table>														Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	RMS Software/OFP Upgrade	C/CPIF	RMS Tucson, AZ	0.815	2.343	Dec 2009	3.247	Dec 2010	0.000		3.247	Continuing	Continuing	0.000	RMS P3I Contract	C/CPIF	RMS Tucson, AZ	4.352	0.535	Dec 2009	0.000	Dec 2010	0.000		0.000	Continuing	Continuing	0.000	Subtotal			5.167	2.878		3.247		0.000		3.247			0.000
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																															
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Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																															
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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force											DATE: February 2010		
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Test and Evaluation (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	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	0.015	2.330	Dec 2009	2.296	Dec 2010	0.000		2.296	Continuing	Continuing	0.000
Subtotal			0.015	2.330		2.296		0.000		2.296			0.000
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			5.585	5.915		6.040		0.000		6.040			0.000
Remarks Total Prior Years Cost may include only FY 2009 data.													

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

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

R-1 ITEM NOMENCLATURE

PE 0207161F: *Tactical AIM Missiles*

PROJECT

674132: *AIM-9 Product Improvement*

Fiscal Year	2009				2010				2011				2012				2013				2014				2015			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Primary Hardware Dev. AOTD P3I (AKA FUZE)																												
T&E Milestones																												
Software v8.2 Operational Test (OT-III B)																												
Block II (v9.2 S/W) Development Test (DT-III C)																												
Block II (v9.2 S/W) Operational Test (OT-III C)																												
Software v9.3 Development Test (DT-III D)																												
Software v9.3 Integrated Development/Operational Test (IT-III D)																												
Software v9.3 Operational Test (OT-III D)																												
Production Milestones																												
FRP Awards																												
Deliveries																												
FRP 5 Lot 9 Block II																												
FRP 6 Lot 10																												
FRP 7 Lot 11																												
FRP 8 Lot 12																												
FRP 9 Lot 13																												
FRP 10 Lot 14																												
FRP 11 Lot 15																												
Lot 7: 32																												
Lot 8 Deliveries: 319																												
Lot 9 Deliveries: 271																												
Lot 10 Deliveries: 380																												
Lot 11 Deliveries: 333																												
Lot 12 Deliveries: 308																												
Lot 13 Deliveries: 308																												
Production Deliveries	32	0	106	108	58	47	0	4	42	71	88	94	89	99	98	94	86	84	86	81	83	75	72	78	86	75	72	86
Deliveries by Lot	7		8	8	8	8	9	9	9	9	9	9/10	10	10	10	10/11	11	11	11	11/12	12	12	12/13	13	13	13	13	13/14

Note: Production Gaps between Lots 7, 8 and 9 are filled with Foreign Military Sales deliveries

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
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Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
AOTD P3I, Phase 1	1	2009	4	2009
AOTD P3I, Phase 2	1	2010	2	2010
Operational Test OT-IIIB	1	2009	1	2009
Developmental Test DT-IIIC	1	2009	4	2009
Operational Test OT-IIIC, Phase 1	4	2009	4	2009
Operational Test OT-IIIC, Phase 2	1	2010	2	2010
Developmental Test DT-IIID, Phase 1	4	2009	4	2009
Developmental Test DT-IIID, Phase 2	1	2010	1	2010
Integrated Test IT-IIID, Phase 1	2	2010	4	2010
Integrated Test IT-IIID, Phase 2	1	2011	3	2011
Operational Test OT-IIID	4	2011	4	2011
Full Rate Production (FRP-5) Award Lot 9	3	2009	3	2009
Full Rate Production (FRP-6) Award Lot 10	2	2010	2	2010
Full Rate Production (FRP-7) Award Lot 11	1	2011	1	2011

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