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EXHIBIT R-2, RDT&E Budget Item Justification						DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-7						R-1 ITEM NOMENCLATURE 0207161N, TACTICAL AIM MISSILES	
COST (\$ in Millions)	FY 2008	FY 2009	FY 2010				
Total PE Cost	4.808	6.629	2.298				
0457 AIM-9X	4.808	6.629	2.298				

(U) 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 (fuze, 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 IC (ACAT-IC) joint service program with Navy lead.

The program is in full rate production (FRP) with Lot 8 contract awarded January 2008. Beginning with the Lot 9 contract award, scheduled for award in May 2009, the missile will include the preplanned product improvements (P3I) that resolve critical obsolescence issues such as as the Active Optical Target Detector (ie Fuze) and new CPU processor, as well as improvements to the performance of the missile such as data link capabilities, battery improvements, safety improvements and appropriate software updates.

B. PROGRAM CHANGE SUMMARY

Funding:	FY 2008	FY 2009	FY 2010	
Previous President's Budget:	4.350	6.679	2.328	
Current BES Budget:	4.808	6.629	2.298	
Total Adjustments	0.458	-0.050	-0.030	

Summary of Adjustments

Congressional Rescissions			
Congressional Adjustments		-0.032	
SBIR/STTR/FTT Assessments	-0.027		
Program Adjustments	0.485		-0.029
Rate/Misc Adjustments		-0.018	-0.001
Subtotal	0.458	-0.050	-0.030

Schedule:

The Block II software release plan has been updated to reflect that the Operational Flight Software (OFS) 9.200 efforts are limited to rehost the current OFS 8.200 series software into the new Block II hardware and to introduce the basic functions of the replacement fuze. New Block II capabilities will be introduced with fielding OFS 9.300 software series. Therefore, the test scope was reduced for OFS 9.200 software series and increased for OFS 9.300. DT/OT event schedule has been updated due to delays in development of the Active Optical Target Detector (AOTD).

Technical: Not Applicable.

EXHIBIT R-2a, RDT&E Project Justification						DATE: May 2009		
APPROPRIATION/BUDGET ACTIVITY RDT&E,N / BA-7			PROGRAM ELEMENT NUMBER AND NAME 0207161N, TACTICAL AIM MISSILES			PROJECT NUMBER AND NAME 0457, AIM-9X		
COST (\$ in Millions)			FY 2008	FY 2009	FY 2010			
0457 AIM-9X			4.808	6.629	2.298			
RDT&E Articles Qty			Not Applicable					
<b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b>								
<p>AIM-9X (Sidewinder) is a long-term evolution of the AIM-9, a fielded system, qualifying this as a research category operational systems development. The AIM-9X short range Air-to-Air missile modification 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. 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 (fuze, rocket motor and warhead).</p>								
<b>B. ACCOMPLISHMENTS / PLANNED PROGRAM:</b>								
Continued Test & Evaluation of System			FY 2008	FY 2009	FY 2010			
Accomplishments / Effort / Sub-total Cost			.427	.784	.705			
RDT&E Articles Qty								
<p>Funding required for Test &amp; Evaluation (T&amp;E) and associated Governmental support required to ensure the AIM-9X missile integration with threshold US Navy aircraft platforms.</p>								
Continued Systems Engineering Mgmt			FY 2008	FY 2009	FY 2010			
Accomplishments / Effort / Sub-total Cost			4.066	5.680	1.427			
RDT&E Articles Qty								
<p>Continuation of Primary Hardware Development/Pre-Planned Product Improvement (P3I) efforts for the AIM-9X fuze, Systems Engineering/Program Management, as well as support required to ensure AIM-9X missile integration with threshold US Navy aircraft platforms.</p>								
Continued Transportation & Travel for program management			FY 2008	FY 2009	FY 2010			
Accomplishments / Effort / Sub-total Cost			.315	.165	.166			
RDT&E Articles Qty								
<p>Transportation/Travel for AIM-9X effort.</p>								
<b>C. OTHER PROGRAM FUNDING SUMMARY:</b>			<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>			
WPN - BLI 220900 (P1-5), PE 0204162N & 0206138M			53.389	57.327	56.845			
MPAF - BLI 3479 (P1-3), PE0207161F			52.334	76.995	79.974			
RDTE Air Force - PU 4132 (R1-126), PE 0207161F			7.692	5.732	6.017			
<b>D. ACQUISITION STRATEGY:</b>								
<p>The Low-Rate Initial Production (LRIP) 4, LOT 4, Firm-Fixed-Price (FFP) contract was awarded 4/04. ASN(RD&amp;A) approved the Full-Rate Production (FRP) decision in May 2004. FRP 1, LOT 5 contract was awarded 11/04. FRP 1, LOT 5 through FRP 3 LOT 7 contracts were awarded 11/06. Rewards or penalties are provided depending on Raytheon Systems Corporation (RSC) Performance relative to the Procurement Price Commitment Curve (PPCC) for LOTs 5 through 7 (FY 2005 through FY 2007). FRP 4 LOT 8 (FY 2008) contract was re-negotiated outside of the PPCC, and was awarded in JAN 2008. The FRP 5 LOT 9 (FY 2009) contract will be awarded in May 2009, and will be the first lot of Block II missiles for USG only (no FMS) and will incorporate preplanned product improvements (P3I) that resolve critical obsolescence issues as well as missile performance improvements.</p>								

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Exhibit R-3 Cost Analysis (page 1)							DATE: May 2009						
APPROPRIATION/BUDGET ACTIVITY RDT&E,N/BA-7		PROGRAM ELEMENT 0207161N, TACTICAL AIM MISSILES			PROJECT NUMBER AND NAME 0457, AIM-9X								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 2009 Cost	FY 2009 Award Date	FY 2010 Cost	FY 2010 Award Date						
<b>PRODUCT DEVELOPMENT</b>													
Primary Hdw Development (Navy Fuze/OFS)	C-CPIF/AF	Raytheon Missile Systems Company, Tucson, AZ	3.100										
Primary Hdw Development (Fuze P3I)	SS-CPFF	Raytheon Missile Systems Company, Tucson, AZ	11.350										
Aircraft Integration	C/CPFF	McDonnell Douglas, St.Louis, MO	2.691	4.368	Apr 2009	1.040	Apr 2010						
Aircraft Integration	WX	NAWCWD, China Lake, CA	2.330	1.082	May 2009	.266	May 2010						
Systems Eng (WD)	WX	NAWCWD, China Lake, CA	36.035	.230	Nov 2008	.121	Nov 2009						
All Prod DevCost from program implementation thru FY2002			192.194										
<b>SUBTOTAL PRODUCT DEVELOPMENT</b>			<b>247.700</b>	<b>5.680</b>		<b>1.427</b>							

Remarks: Prior year award fees earned is 93%. EMD Contract Target Value includes both Navy and Air Force funding. All other fields represent

<b>TEST &amp; EVALUATION</b>													
Dev Test & Eval (WD)	WX	NAWCWD, China Lake, CA	29.843	.310	Nov 2008	.160	Nov 2009						
Navy Test & Eval (Gov Op Test-WD)	WX	NAWCWD, China Lake, CA	.100	.474	May 2009	.545	May 2010						
Navy Test & Eval - (Cont Dev Test Ray)	SS-CPFF	Raytheon Missile Systems Company, Tucson, AZ	.210										
Oper Test & Eval (OPTEVFOR) (GOVT)	WX	OPTEVFOR, Norfolk, VA	2.828										
All Prod DevCost from program implementation thru FY2002			4.927										
<b>SUBTOTAL TEST &amp; EVALUATION</b>			<b>37.908</b>	<b>.784</b>		<b>.705</b>							

<b>MANAGEMENT</b>													
Transportation - Material	MD	NAVAIR, Patuxent River, MD	.060	.015	Nov 2009	.016	Nov 2010						
Travel	WX	NAWCAD, Patuxent River, MD	1.878	.150	Various	.150	Various						
Management and Support Services	CPFF	Jorge Scientific Corp, Lexington Park MD	.170										
All Prod DevCost from program implementation thru FY2002			7.526										
<b>SUBTOTAL MANAGEMENT</b>			<b>9.634</b>	<b>.165</b>		<b>.166</b>							

<b>Total Cost</b>			<b>295.242</b>	<b>6.629</b>		<b>2.298</b>							
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CLASSIFICATION:																														
EXHIBIT R4, Schedule Profile																									DATE:					
APPROPRIATION/BUDGET ACTIVITY												PROGRAM ELEMENT NUMBER AND NAME										PROJECT NUMBER AND NAME								
RDT&E, N/BA-7												0207161N-Tactical AIM Missiles										0457-AIM-9X								
Fiscal Year	2008				2009				2010																					
	O	N	D	J	O	N	D	J	O	N	D	J																		
	1	2	3	4	1	2	3	4	1	2	3	4																		
<b>Primary Hardware Development</b>																														
AOTD P3I (AKA FUZE)																														
<b>Test &amp; Evaluation Milestones</b>																														
Developmental Test					DT-III C																									
Integrated Test (DT/OT)																														
Operational Test	OT-III B																													
<b>Production Milestones</b>																														
Contract Awards		△ FRP 4 Lot 8																												
Deliveries	124	29	210	67	32	0	88	48	123	60	0	20																		

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<b>CLASSIFICATION:</b>							
Exhibit R-4a, Schedule Detail						DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA 7		PROGRAM ELEMENT AND NAME 0207161N, TACTICAL AIM MISSILES			PROJECT NUMBER AND NAME 0457-AIM-9X		
Schedule Profile		FY 2008	FY 2009	FY 2010			
AOTD P3I		1Q - 4Q	1Q - 4Q	1Q-2Q			
Operational Test OT-IIIB		1Q - 4Q	1Q				
Developmental Test DT-IIIC		3Q - 4Q	1Q - 4Q				
Operational Test OT-IIIC			4Q	1Q - 2Q			
Developmental Test DT-IIID			4Q	1Q			
Integrated Test IT-IIID				2Q - 4Q			
Operational Test OT-IIID							
Full Rate Production (FRP 4) Award Lot 8		2Q					
Full Rate Production (FRP 5) Award Lot 9			3Q				
Full Rate Production (FRP 6) Award Lot 10				2Q			
Full Rate Production (FRP 7) Award Lot 11							
Full Rate Production (FRP 8) Award Lot 12							
Full Rate Production (FRP 9) Award Lot 13							
Full Rate Production (FRP 10) Award Lot 14							
Full Rate Production (FRP 11) Award Lot 15							