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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0207161N: <i>Tactical Aim Missiles</i>							
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	8.419	2.288	0.912	0.000	0.912	0.931	0.954	0.976	0.996	Continuing	Continuing
0457: <i>AIM-9X</i>	8.419	2.288	0.912	0.000	0.912	0.931	0.954	0.976	0.996	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 (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.</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 (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. 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>											

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0207161N: Tactical Aim Missiles			
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	6.629	2.298	0.000	0.000	0.000
Current President's Budget	8.419	2.288	0.912	0.000	0.912
Total Adjustments	1.790	-0.010	0.912	0.000	0.912
• Congressional General Reductions		-0.010			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	1.990	0.000			
• SBIR/STTR Transfer	-0.200	0.000			
• Program Adjustments	0.000	0.000	0.912	0.000	0.912
Change Summary Explanation					
Technical: Not applicable.					
Schedule:					
Deliveries in FY 2009 have been updated to reflect actuals					
Deliveries in 4th Quarter FY 2010 reduced from 20 to 4 due to change in FY 2009 quantities from 144 to 114.					
Qualification of the Tactical missile Active Optical Target Detector (AOTD) is not complete. This results in extension of the DT-IIIC schedule, which leads to moving the OT-IIIC, DT-IIID, IT-IIID and OT-IIID schedule to the right.					
FY 2010 Production Contract (FRP6) has been delayed 3 months due to extended contract negotiations associated with Block II missiles. The program expects to award in June 2010.					
FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.					

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0207161N: Tactical Aim Missiles				PROJECT 0457: AIM-9X			
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
0457: AIM-9X	8.419	2.288	0.912	0.000	0.912	0.931	0.954	0.976	0.996	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification											
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).											
B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Continued Test and Evaluation of System							0.197	0.705	0.606	0.000	0.606
Funding required for Test & Evaluation (T&E) and associated Governmental support required to ensure the AIM-9X missile integration with threshold US Navy aircraft platforms.											
FY 2009 Accomplishments: Initiated Block II (v9.2) Developmental Test for the AIM-9X missile integration.											
FY 2010 Plans: Funding required in association with continuation of Block II (v.9.2) Developmental Test, and initiate the Block II (v.9.3) Developmental Test for the AIM-9X missile integration.											
FY 2011 Base Plans: Funding required in association with the Block II (v.9.3) Developmental Test for the AIM-9X missile integration.											

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Continued Product Development  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. 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.  FY 2009 Accomplishments: Continued efforts for the Active Optical Target Detector (AOTD) / Fuze Development.  FY 2010 Plans: Funding required for the v.9.3 Alogorithm and Code Development in support of the AIM-9X missile integration effort.  FY 2011 Base Plans: Funding required for the v.9.4 Alogorithm and Code Development in support of the AIM-9X missile integration effort.		7.656	1.427	0.150	0.000	0.150
Continued Transportation & Travel for Program Management  Transportation / Travel for AIM-9X effort.  FY 2009 Accomplishments: Funding provided for the transportation and travel costs associated with supporting the AIM-9X Blk II missile.  FY 2010 Plans: Funding provided for the transportation and travel costs associated with supporting the AIM-9X Blk II missile.		0.566	0.156	0.156	0.000	0.156

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				R-1 ITEM NOMENCLATURE PE 0207161N: <i>Tactical Aim Missiles</i>				PROJECT 0457: <i>AIM-9X</i>			
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2011 Base Plans: Funding provided for the transportation and travel costs associated with supporting the AIM-9X Blk II missile.											
Accomplishments/Planned Programs Subtotals						8.419	2.288	0.912	0.000	0.912	
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
• WPN 2209: <i>Sidewinder</i>	57.327	53.679	52.293	2.923	55.216	51.930	52.551	61.564	62.619	678.900	1,337.086
• MPAF 3479: <i>Sidewinder</i>	76.995	78.527	64.523	0.000	64.523	59.723	58.645	56.691	56.379	605.583	1,389.666
• RDTE, AF 4131: <i>Sidewinder</i>	5.585	5.915	6.040	0.000	6.040	6.135	6.235	6.330	6.423	0.222	299.050
D. Acquisition Strategy											
The Low-Rate Initial Production (LRIP) 4, LOT 4, Firm-Fixed-Price (FFP) contract was awarded 4/04. ASN(RD&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 Missile Systems (RMS) 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 was awarded in June 2009, and is the first lot incorporating Captive Air Training Missile (CATM) Block II for USG only (no FMS), and is incorporating preplanned product improvements (P3I) that resolve critical obsolescence issues.											
E. Performance Metrics											
The AIM-9X Sidewinder program is meeting the cost, schedule, performance, funding and life cycle sustainment in accordance with the Acquisition Program Baseline. Contractor is meeting production schedule.											

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<b>Product Development (\$ in Millions)</b> <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 &amp; Type</th> <th rowspan="2">Performing Activity &amp; 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>Primary Hdw Development (Navy Fuze/OFS)</td> <td>C/CPIF</td> <td>Raytheon Missile Systems Tucson, AZ</td> <td align="right">3.100</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">3.100</td> <td>Continuing</td> </tr> <tr> <td>Primary Hdw Development (Fuze P3I)</td> <td>SS/CPFF</td> <td>Raytheon Missile Systems Tucson, AZ</td> <td align="right">14.279</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">14.279</td> <td>Continuing</td> </tr> <tr> <td>Aircraft Integration</td> <td>C/CPFF</td> <td>McDonnell Douglas St.Louis, MO</td> <td align="right">6.168</td> <td align="right">1.040</td> <td>Jan 2010</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">7.208</td> <td>Continuing</td> </tr> <tr> <td>Aircraft Integration</td> <td>WR</td> <td>NAWC WD China Lake, CA</td> <td align="right">2.940</td> <td align="right">0.266</td> <td>Nov 2009</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.666</td> <td align="right">3.872</td> <td>Continuing</td> </tr> <tr> <td>Systems Eng (WD)</td> <td>WR</td> <td>NAWC WD China Lake, CA</td> <td align="right">36.675</td> <td align="right">0.121</td> <td>Nov 2009</td> <td align="right">0.150</td> <td>Nov 2010</td> <td align="right">0.000</td> <td></td> <td align="right">0.150</td> <td align="right">0.000</td> <td align="right">36.946</td> <td>Continuing</td> </tr> <tr> <td>All Prod DevCost from program implementation thru FY2002</td> <td>Various/ Various</td> <td>Not Specified Not Specified</td> <td align="right">192.194</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">192.194</td> <td>Continuing</td> </tr> <tr> <td align="right" colspan="3"><b>Subtotal</b></td><td align="right">255.356</td><td align="right">1.427</td><td></td><td align="right">0.150</td><td></td><td align="right">0.000</td><td></td><td align="right">0.150</td><td align="right">0.666</td><td align="right">257.599</td><td></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	Primary Hdw Development (Navy Fuze/OFS)	C/CPIF	Raytheon Missile Systems Tucson, AZ	3.100	0.000		0.000		0.000		0.000	0.000	3.100	Continuing	Primary Hdw Development (Fuze P3I)	SS/CPFF	Raytheon Missile Systems Tucson, AZ	14.279	0.000		0.000		0.000		0.000	0.000	14.279	Continuing	Aircraft Integration	C/CPFF	McDonnell Douglas St.Louis, MO	6.168	1.040	Jan 2010	0.000		0.000		0.000	0.000	7.208	Continuing	Aircraft Integration	WR	NAWC WD China Lake, CA	2.940	0.266	Nov 2009	0.000		0.000		0.000	0.666	3.872	Continuing	Systems Eng (WD)	WR	NAWC WD China Lake, CA	36.675	0.121	Nov 2009	0.150	Nov 2010	0.000		0.150	0.000	36.946	Continuing	All Prod DevCost from program implementation thru FY2002	Various/ Various	Not Specified Not Specified	192.194	0.000		0.000		0.000		0.000	0.000	192.194	Continuing	<b>Subtotal</b>			255.356	1.427		0.150		0.000		0.150	0.666	257.599	
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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<b>Subtotal</b>			255.356	1.427		0.150		0.000		0.150	0.666	257.599																																																																																																																								
<b>Remarks</b> Remarks: Prior year award fees earned is 93%. Total prior years - FY95 and prior under PE 0603715D. FY96 and out are funded under PE 0207161N.																																																																																																																																				

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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
Dev Test & Eval (WD)	WR	NAWC WD China Lake, CA	29.843	0.160	Nov 2009	0.071	Nov 2010	0.000		0.071	0.440	30.514	Continuing
Navy Test & Eval (Gov Op Test - WD)	WR	NAWC WD China Lake, CA	0.279	0.545	Nov 2009	0.535	Nov 2010	0.000		0.535	2.318	3.677	Continuing
Navy Test & Eval (Cont Dev Test)	SS/CPFF	Raytheon Missile Systems Tucson, AZ	0.210	0.000		0.000		0.000		0.000	0.000	0.210	0.210
Oper Test & Eval (OPTEVFOR)	WR	OPTEVFOR Norfolk, VA	2.846	0.000		0.000		0.000		0.000	0.000	2.846	Continuing
All Prod dev Cost from Program Implementation thru FY2002	Various/ Various	Various Various	4.927	0.000		0.000		0.000		0.000	0.000	4.927	Continuing
<b>Subtotal</b>			38.105	0.705		0.606		0.000		0.606	2.758	42.174	0.210

**Remarks**

**Management Services (\$ 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
Transportation - Material	WR	NAVAIR Patuxent River, MD	0.065	0.016	Nov 2009	0.016	Nov 2010	0.000		0.016	0.064	0.161	Continuing

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<b>Management Services (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Travel - Obligation throughout Year	WR	NAWCAD Patuxent River, MD	2.102	0.140	Oct 2009	0.140	Oct 2010	0.000		0.140	0.600	2.982	Continuing
Management & Support Services	C/CPFF	Jorge Scientific Corp Lexington Park, MD	0.507	0.000		0.000		0.000		0.000	0.000	0.507	0.507
All Prod Dev Cost from Program Implementation thru FY 2002	Various/ Various	Various Various	7.526	0.000		0.000		0.000		0.000	0.000	7.526	Continuing
<b>Subtotal</b>			10.200	0.156		0.156		0.000		0.156	0.664	11.176	0.507
<b>Remarks</b>													
			<b>Total Prior Years Cost</b>	<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>			303.661	2.288		0.912		0.000		0.912	4.088	310.949	0.717
<b>Remarks</b>													

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

DATE: February 2010

## APPROPRIATION/BUDGET ACTIVITY

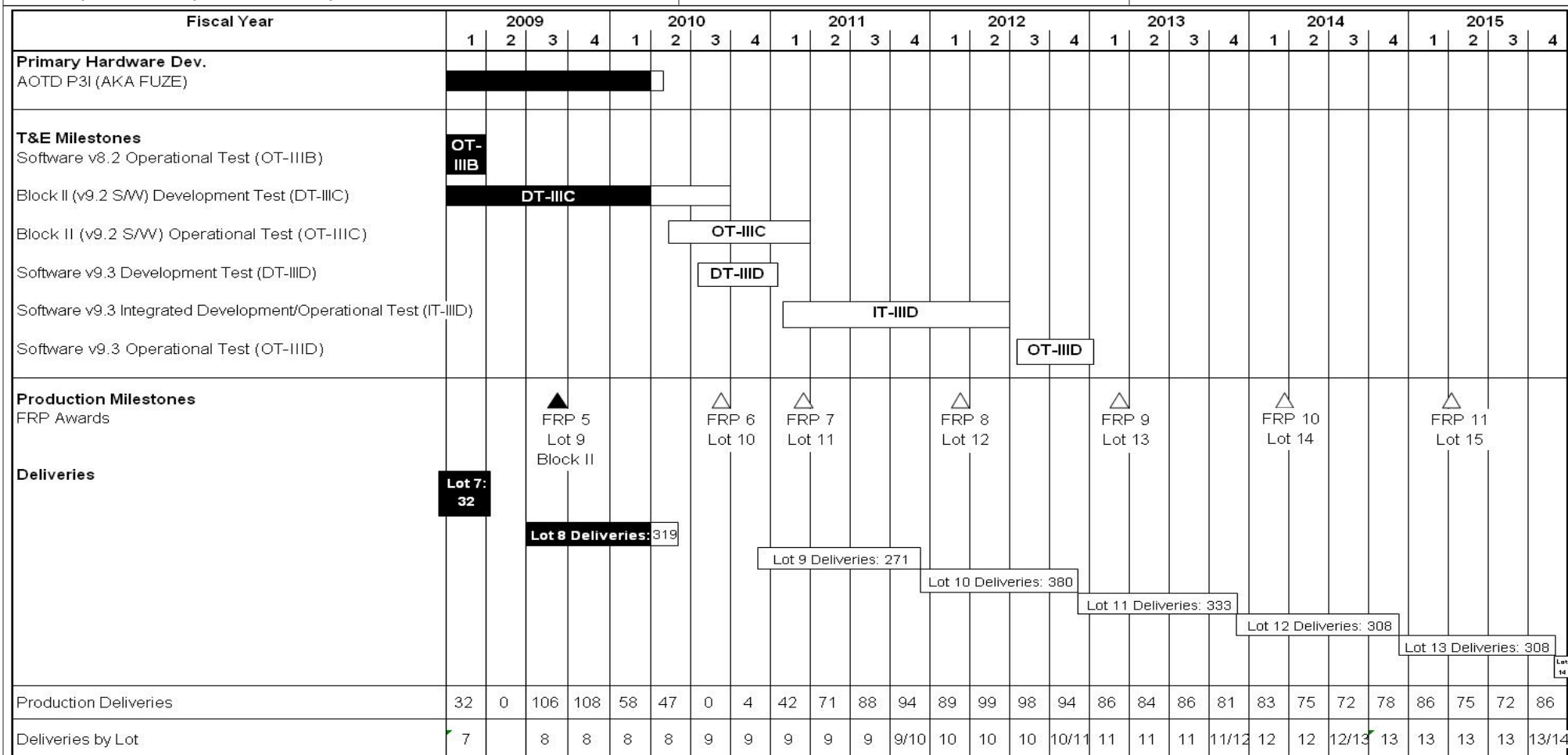
1319: Research, Development, Test & Evaluation, Navy  
BA 7: Operational Systems Development

## R-1 ITEM NOMENCLATURE

PE 0207161N: Tactical Air Missiles

## PROJECT

0457: AIM-9X



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

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2011 Navy			<b>DATE:</b> February 2010
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## Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
AOTD P3I	1	2009	2	2010
Block II v8.2 Operational Test (OT-IIIB)	1	2009	1	2009
Block II Development Test (DT-IIIC)	1	2009	3	2010
Block II Operational Test (OT-IIIC)	2	2010	1	2011
Block II v9.3 Development Test (DT-IIID)	3	2010	1	2011
Block II v9.3 Integrated Development/Operational Test (IT-IIID)	1	2011	2	2012
Block II v9.3 Operational Test (OT-IIID)	3	2012	1	2013
Full Rate Production (FRP 5) Award Lot 9	3	2009	3	2009
Full Rate Production (FRP 6) Award Lot 10	3	2010	3	2010
Full Rate Production (FRP 7) Award Lot 11	1	2011	1	2011
Full Rate Production (FRP 8) Award Lot 12	1	2012	1	2012
Full Rate Production (FRP 9) Award Lot 13	1	2013	1	2013
Full Rate Production (FRP 10) Award Lot 14	1	2014	1	2014
Full Rate Production (FRP 11) Award Lot 15	1	2015	1	2015
Full Rate Production Deliveries Lot 8	3	2009	2	2010
Full Rate Production Deliveries Lot 9	4	2010	4	2011
Full Rate Production Deliveries Lot 10	4	2011	4	2012
Full Rate Production Deliveries Lot 11	4	2012	4	2013

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2011 Navy			<b>DATE:</b> February 2010	
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0207161N: <i>Tactical Aim Missiles</i>	<b>PROJECT</b> 0457: <i>AIM-9X</i>		

Event	Start		End	
	Quarter	Year	Quarter	Year
Full Rate Production Deliveries Lot 12	4	2013	4	2014
Full Rate Production Deliveries Lot 13	4	2014	4	2015
Full Rate Production Deliveries Lot 14	4	2015	4	2015

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R-1 Line Item #187

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