

# UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE: <b>February 2002</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-7</b>						R-1 ITEM NOMENCLATURE 0207161N-Tactical Air Intercept					
COST (\$ in Millions)	Prior Year Cost		FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Total PE Cost	224.265		23.801	16.257	1.957	0.716	1.142	1.254	1.288	0.000	270.680
E0457 AIM-9X	224.265		23.801	16.257	1.957	0.716	1.142	1.254	1.288	0.000	270.680
Quantity of RDT&E Articles	6		4	13							23
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The AIM-9X is a long-term evolution of the AIM-9, a fielded system, qualifying this as a research category operational systems development. The AIM-9X (Sidewinder) 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 tracing 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. Anti-Tamper features are being incorporated to protect improvements inherent in AIM-9X design.</p> <p>Status: Acquisition Decision Memorandum (ADM) for LRIP II &amp; III was signed in November 2001.</p> <p>The joint flight test program has completed 18 unguided and 19 guided launches proving capabilities well beyond the fielded AIM-9M.</p> <p>(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for upgrade of existing, operational systems.</p>											

R-1 SHOPPING LIST - Item No. 197

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**Exhibit R-3, Project Cost Analysis**  
(Exhibit R-3, page 1 of 7)

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EXHIBIT R-2a, RDT&E Project Justification								DATE: <b>February 2002</b>			
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-7</b>			0207161N-Tactical Air Intercept			PROJECT NUMBER AND NAME E0457-AIM-9X					
COST (\$ in Millions)	Prior Year Cost	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program	
Project Cost	224.265	23.801	16.257	1.957	0.716	1.142	1.254	1.288	0.000	270.680	
RDT&E Articles Qty	6	4	13							23	
<p>(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The AIM-9X is a long-term evolution of the AIM-9, a fielded system, qualifying this as a research category operational systems development. The AIM-9X (Sidewinder) 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. Anti-Tamper features are being incorporated to protect improvements inherent in AIM-9X design.</p> <p>Status: Acquisition Decision Memorandum (ADM) for LRIP II &amp; III was signed in November 2001.</p> <p>The joint flight test program has completed 18 unguided and 17 guided launches proving capabilities well beyond the fielded AIM-9M.</p> <p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>1. FY 2001 ACCOMPLISHMENTS: (Navy Share Only)</p> <ul style="list-style-type: none"> <li>- (U) (\$16.993) Continued EMD efforts to include completion of DT-IIC and execution of DT-IID (TECHEVAL).</li> <li>- (U) (\$5.855) Continued providing government flight test support through implementation of DT-IID and DT assistance with operational testers.</li> <li>- (U) (\$0.825) Provided for consulting services, technical engineering, and management support.</li> <li>- (U) (\$0.128) Headquarters travel performed.</li> </ul> <p>2. FY 2002 PLANS: (Navy Share Only)</p> <ul style="list-style-type: none"> <li>- (U) (\$7.357) Continue EMD efforts to include continuation of OT-IIB.</li> <li>- (U) (\$7.505) Continue providing Government flight test support.</li> <li>- (U) (\$0.845) Provide for consulting services, technical engineering, and management support.</li> <li>- (U) (\$0.058) Headquarters travel planned.</li> <li>- (U) (\$0.492) Portion of extramural program reserved for Small Business Innovation Research Assessment in accordance with 15 USC 638.</li> </ul>											

R-1 SHOPPING LIST - Item No. 197

# UNCLASSIFIED

**Exhibit R-3, Project Cost Analysis**  
(Exhibit R-3, page 2 of 7)

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
<b>RDT&amp;E, N / BA-7</b>	0207161N-Tactical Air Intercept	E0457-AIM-9X
<p>2. FY 2003 PLANS: (Navy Share Only)</p> <ul style="list-style-type: none"><li>- (U) (\$1.093) Completion of EMD efforts to include OT-IIB....includes correction of issues identified during OT.</li><li>- (U) (\$0.658) Completion of flight test support....all data from testing must be transitioned to operational databases.</li><li>- (U) (\$0.186) Provide for consulting services, technical engineering, and management support.</li><li>- (U) (\$0.020) Headquarters travel planned.</li></ul>		

R-1 SHOPPING LIST - Item No. 197

**UNCLASSIFIED**

**Exhibit R-3, Project Cost Analysis**  
(Exhibit R-3, page 3 of 7)

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME				
<b>RDT&amp;E, N / BA-7</b>	0207161N-Tactical Air Intercept			E0457-AIM-9X				
<b>(U) B. PROGRAM CHANGE SUMMARY:</b>								
	<u>FY2001</u>	<u>FY2002</u>	<u>FY2003</u>					
(U) FY 2002 President's Budget:	21.473	16.402						
(U) Adjustments from the FY02 President's Budget:	2.328	-0.145						
(U) FY 2003 President's Budget	23.801	16.257	1.957					
<b>CHANGE SUMMARY EXPLANATION:</b>								
(U) Funding: The FY 2001 net increase of \$2.328 million reflects an increase of \$.975 million for developmental testing and an increase of \$1.915 million for Anti-Tamper offset by a decrease of \$.121 million for reprioritization of a requirement within the Navy and a decrease of \$.441 million for a Small Business Innovative Research assessment. The FY 2002 decrease of 145K reflects an undistributed congressional reduction.								
(U) Schedule: OT-IIB schedule changed from first to second quarter of FY 2002 due to the finalization of software, the resolution of battery issues and availability of GFE target drones.								
(U) Technical: Not Applicable.								
<b>(U) C. OTHER PROGRAM FUNDING SUMMARY:</b>								
<u>Line Item No. &amp; Name</u>	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	To Complete
AIM-9X Mods/Missile*	26.679	24.205	53.250	30.893	33.479	34.739	35.988	942.336
AIM-9M Mods	0.600	0.795	0.595	0.000	0.000	0.000	0.000	0.000
AIM-9X Spares	0.753	0.973	0.996	0.862	1.044	0.924	1.032	0.000
AIM-9X Mods/Missile (Air Force)*	27.925	33.197	55.213	71.590	54.865	57.321	55.578	840.997
<b>(U) RELATED AIR FORCE RDT&amp;E:</b>								
Program Element: 0207161F **	21.657	5.713	2.943	0.382	5.659	15.419	5.702	
*FY01 is funded in the modification line/FY02 and future years are a new missile program.								
** FY05 RDT&E and out represent planned funding for P3I effort.								

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<p>(U) D. ACQUISITION STRATEGY: After a full and open competition, a Cost Plus Incentive Fee/Award Fee contract was awarded to Hughes Missile System Company (now Raytheon Systems Corporation) (RSC) to complete missile system development and prepare for production. This Engineering and Manufacturing Development (EMD) contract includes three Fixed Price options for Low Rate Initial Production (LRIP) Lots I, II and III. The FY01 LRIP I option was exercised in Nov 2000, LRIP II option was exercised in Nov 2001 and LRIP III option is planned to be exercised in Nov 2002. The EMD contract and production options provide strong incentives for the contractor to control costs, achieve reliability performance and deliver on schedule.</p> <p>The Navy Acquisition Executive will make the Full Rate Production (FRP) decision with advice from the Air Force Acquisition Executive subsequent to the successful completion of the associated exit criteria. FRP Lots 4 through 7 contracts will be Firm Fixed-Price (FFP) with incentives provided the contractor meets or beats his Procurement Price Commitment Curve (PPCC). Rewards or penalties are provided depending on RSC's performance relative to the PPCC. A Service review of RSC's Lot 4 through 7 proposals relative to the PPCC will be held prior to award of those contracts.</p> <p>(U) E. SCHEDULE PROFILE:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;"></th> <th style="width: 20%; text-align: center;"><u>FY 2001</u></th> <th style="width: 20%; text-align: center;"><u>FY 2002</u></th> <th style="width: 20%; text-align: center;"><u>FY 2003</u></th> <th style="width: 20%; text-align: center;"><u>TO COMPLETE</u></th> </tr> </thead> <tbody> <tr> <td>(U) Program Milestones</td> <td></td> <td></td> <td>3Q/03 MSIII</td> <td></td> </tr> <tr> <td>(U) Engineering Milestones</td> <td></td> <td>2Q/02 OTRR for OPEVAL</td> <td></td> <td></td> </tr> <tr> <td>(U) T&amp;E Milestones</td> <td>2Q/01-4Q/01 DT-IID</td> <td>2Q/02-1Q/03 OT-IIB</td> <td></td> <td></td> </tr> <tr> <td>(U) Contract Milestones</td> <td>1Q/01 LRIP I award</td> <td>1Q/02 LRIP II award</td> <td>1Q/03 LRIP III award</td> <td>Full Rate Production 1Q/04</td> </tr> </tbody> </table>						<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>TO COMPLETE</u>	(U) Program Milestones			3Q/03 MSIII		(U) Engineering Milestones		2Q/02 OTRR for OPEVAL			(U) T&E Milestones	2Q/01-4Q/01 DT-IID	2Q/02-1Q/03 OT-IIB			(U) Contract Milestones	1Q/01 LRIP I award	1Q/02 LRIP II award	1Q/03 LRIP III award	Full Rate Production 1Q/04
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>TO COMPLETE</u>																									
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(U) T&E Milestones	2Q/01-4Q/01 DT-IID	2Q/02-1Q/03 OT-IIB																											
(U) Contract Milestones	1Q/01 LRIP I award	1Q/02 LRIP II award	1Q/03 LRIP III award	Full Rate Production 1Q/04																									



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Cost Categories (Tailor to WBS, or System/Item Requirements)	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date	FY 03 Cost	FY 03 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	NAWCWD	18.259	1.178	11/00	6.660	11/01	0.335	11/02		26.432	
Developmental Test & Evaluation	WX	NAWCAD	4.683								4.683	
Subtotal T&E			22.942	1.178		6.660		0.335			31.115	
Remarks: Prior Years included in Product Development.												
Contractor Engineering Support	ID/IQ,T&M	Endmark, Arlington, Va	3.670								3.670	3.670
Contractor Engineering Support	ID/IQ,T&M	MSTT, Arlington, Va	0.776	0.210	12/00						0.986	0.986
Program Management Support	ID/IQ,T&M	NSM, Arlington, Va.	1.359	0.081	11/00						1.440	1.440
Travel	WX	PMA259 IPT	1.077	0.128	10/00	0.058	10/01	0.020	11/02	0.050	1.333	
Various Eng. Support Contracts	ID/IQ,T&M	Various	0.206	0.544	Various	0.270	Various	0.186	Various		1.206	1.206
SBIR Assessment						0.492					0.492	
Subtotal Management			7.088	0.963		0.820		0.206		0.050	9.127	
Remarks:												
Total Cost			224.265	23.801		16.257		1.957		4.400	270.680	
Remarks: Support Costs included in Management Costs.												

R-1 SHOPPING LIST - Item No. 197

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(Exhibit R-3, page 7 of 7)