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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

June 2001

BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0207161F Tactical AIM Missiles

PROJECT

4132

COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
4132 AIM-9 Product Improvement	39,409	21,507	5,771	3,067	553	5,877	15,752	5,964	0	245,759
Quantity of RDT&E Articles	5	6	11	0	0	0	0	0	0	22

Note: The RDT&E articles are deliverables under the Engineering and Manufacturing Development contract and are not separately priced. Quantities are delivered in the indicated Fiscal Years. Deliveries supported October 1999 restructured program.

The FY03-FY07 budget numbers do not reflect DoD's strategic review results.

(U) **A. Mission Description**

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 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. AIM-9X is an Acquisition Category IC (ACAT IC) joint-service program with Navy lead.

Status: The program successfully completed an Operational Assessment (OA) on 4 Aug 00 and received DAB approval on 8 Sept 00, without comment or issue, to enter into Low Rate Initial Production (LRIP) 1. Contract award took place in Nov 00. The AIM-9X flight test program and the OA have demonstrated capabilities beyond those of the currently fielded AIM-9M short range missile. USAF and USN warfighters have jointly emphasized the need to aggressively field the AIM-9X to counter the already fielded and superior threat air-to-air systems.

(U) **FY 2000 (\$ in Thousands)**

- (U) \$22,371 Continue the manufacturing development contract to include Test Readiness Review (TRR), Production Readiness Review (PRR) leading to a Defense Acquisition Board LRIP decision in 4th Qtr FY00 with production option award in FY01, and delivery of five test articles. Continue flight testing (DT) and OT flight test support for dedicated Operational Evaluation (OPEVAL) (IOT&E).
- (U) \$1,100 Continue providing aircraft interface data to the Engineering and Manufacturing Development (EMD) contractor in support of OT-IIA and DT-IIC and complete OT-IIA.
- (U) \$11,967 Continue providing government flight test support of ongoing activities defined in DT-IIB/C and Captive Carry Reliability Flight Program at

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<p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2000 (\$ in Thousands) Continued</u></p> <p style="padding-left: 40px;">multiple test sites.</p> <p>(U) \$1,199 Field engineering support for government flight test activities.</p> <p>(U) \$1,980 Provide program office management support to include working capital funded personnel, supplies, and travel.</p> <p>(U) \$792 Provide for consulting services, technical engineering, and management support.</p> <p>(U) \$39,409 Total</p> <p style="padding-left: 20px;">Note: The following net transactions are not reflected in the FY00 program total: BTR= -182K. These transactions are not reflected in other sections of the RDocs where a FY00 total is shown.</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$14,128 Continue the manufacturing development contract to include completion of DT-IIB/C, start of DT-IID Launches and delivery of 6 test articles.</p> <p>(U) \$1,074 Continue providing aircraft interface support to the EMD contractor.</p> <p>(U) \$5,223 Continue providing government flight test support of activities defined as DT-IID and DT Assist (with operational testers) at multiple test sites.</p> <p>(U) \$206 Field engineering support for government flight test activities.</p> <p>(U) \$396 Provide program office management support to include working capital funded personnel, supplies, and travel.</p> <p>(U) \$480 Provide for consulting services, technical engineering, and management support.</p> <p>(U) \$21,507 Total</p> <p style="padding-left: 20px;">Note: The following net transactions are not reflected in the FY01 program total: BTR= +150K. These transactions are not reflected in other sections of the RDocs where a FY01 total is shown.</p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <p>(U) \$3,818 Continue the manufacturing development contract to include completion of the DT Assist, start of OT-IIB and delivery of eleven test articles.</p> <p>(U) \$200 Continue providing aircraft interface support to the EMD contractor.</p> <p>(U) \$818 Continue providing government flight test support of activities defined as DT Assist (with operational testers) at multiple test sites.</p> <p>(U) \$290 Field engineering support for government flight test activities.</p> <p>(U) \$330 Provide program office management support to include working capital funded personnel, supplies, and travel.</p> <p>(U) \$315 Provide for consulting services, technical engineering, and management support.</p> <p>(U) \$5,771 Total</p>		
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4132(U) **B. Budget Activity Justification**

The program is currently in budget activity 7 for FY01 and prior years - Operational System Development, since the AIM-9X has been considered a modification to the already fielded AIM-9M and a long term evolution of the AIM-9 series of air-to-air missiles. The following Congressional language resulted from the FY01 Appropriations Conference - 'The conferees direct that future Air Force and Navy budget requests for AIM-9X be included in the new procurement sections of the Missile Procurement Air Force and Weapons Procurement Navy budget accounts rather than the current practice of budgeting AIM-9X as a modification.' As a result, FY01 procurement actions are addressed in a BP21 documentation (P3A) and the remainder of the program is detailed in BP20 documentation (P40, 5, 5A, 21).

(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2001 PBR)	40,513	21,706	3,510	
(U) Appropriated Value	41,007	21,706		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-271	-152		
b. Small Business Innovative Research	-952			
c. Omnibus or Other Above Threshold Reprogram				
d. Below Threshold Reprogram	-215			
e. Rescissions	-160	-47		
(U) Adjustments to Budget Years Since FY 2001 PBR			2,261	
(U) Current Budget Submit/FY 2002 PBR	39,409	21,507	5,771	245,759

(U) **Significant Program Changes:**

General:

The program successfully completed an Operational Assessment (OA), as committed, on 4 Aug 00 and received DAB approval, without comment or issue, to enter into LRIP 1 on 8 Sept 00. The FY00 Congressional conferees direct that future Air Force and Navy budget requests for AIM-9X be included in the new procurement sections of the Missile Procurement Air Force and Weapons Procurement Navy budget accounts rather than the current practice of budgeting AIM-9X as a modification

Funding:

The program completed a \$2,235K ZBT of procurement funding to cover additional RDT&E activities in FY02 resulting from the Oct 99 restructure.

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(U) <u>D. Other Program Funding Summary (\$ in Thousands)</u>												
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>		
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>			
(U) AF RDT&E												
(U) DOD PE (0603715D)										25,000		
(U) Other APPN												
(U) Tactical AIM Missile Modification (BP21)	0	25,275								25,275		
(U) Tactical AIM Missile Procurement (BP20)			33,545	55,495	72,344	55,558	58,326	56,703	840,997	1,172,968		
(U) SEEK EAGLE	0	2,892	5,385	1,763	0	0	0	0		TBD		
Congressional language directed the program to report as a missile procurement, starting in FY02, and not as a missile modification.												
(U) <u>E. Acquisition Strategy</u>												
After a full and open competition, a Cost Plus Incentive Fee/Award Fee contract was awarded to Hughes Missile Systems Company (now Raytheon Systems Corp (RSC)) to complete missile system development and prepare for production. This EMD contract includes three Fixed Price Incentive Fee options for Low Rate Initial Production (LRIP) Lots 1, 2, and 3. These production options are planned to be exercised in FY01, FY02, and FY03. The EMD contract and production options provide strong incentives for the contractor to control costs, achieve reliable performance and deliver on schedule. The DAB approved, without comment or issue, the LRIP 1 decision on 8 Sept 00.												
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 if the contractor meets or beats his Procurement Price Commitment Curve (PPCC), a quantity price curve provided by RSC with the EMD proposal. 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.												
(U) <u>F. Schedule Profile</u>												
	<u>FY 2000</u>			<u>FY 2001</u>			<u>FY 2002</u>					
	1	2	3	4	1	2	3	4	1	2	3	4
(U) OT-IIA - Complete				*								
(U) PRR for LRIP			*									
(U) DT-IIID (Launches) Starts				*								
(U) LRIP DAB				*								
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(U) F. Schedule Profile Continued											
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <u>FY 2000</u> 1 2 3 4 </div> <div style="text-align: center;"> <u>FY 2001</u> 1 2 3 4 </div> <div style="text-align: center;"> <u>FY 2002</u> 1 2 3 4 </div> </div>											
(U) LRIP 1 Award					*						
(U) DT Assist					*						
(U) LRIP 2 Decision							*				
(U) LRIP 2 Award									X		
(U) OT-IIB Starts									X		
* Completed Events X Planned Events											
Schedule Notes:											
Air Force RAA on the F-15C is 4QFY03 and FRP award scheduled for 1QFY04											

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE June 2001			
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT	
07 - Operational System Development					0207161F Tactical AIM Missiles				4132	
(U)	<u>A. Project Cost Breakdown (\$ in Thousands)</u>									
						<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>		
(U)	Project Cost Categories									
(U)	a. Primary Hardware Development					22,371	14,128	3,818		
(U)	b. Contractor Engineering Support (F-15 AIM-9X Aircraft Integration)					1,100	1,074	200		
(U)	c. Development and Test Evaluation					11,967	5,223	818		
(U)	d. Government Engineering Support					1,199	206	290		
(U)	e. Program Management (PMA)					1,980	396	330		
(U)	f. Contractor Services Support					792	480	315		
(U)	Total					39,409	21,507	5,771		
(U)	<u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>									
(U)	<u>Performing Organizations:</u>									
	<u>Contractor or</u>	<u>Contract</u>								
	<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>					
	<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
	<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>
	<u>Product Development Organizations</u>									
	Hughes	C/CPIF	Dec 94	5,694	5,694	5,694	0	0	0	5,694
	Raytheon	C/CPIF	Dec 94	5,694	5,694	5,695	0	0	0	5,695
	Raytheon	C/CPIF	Dec 96	136,930	136,930	83,855	22,371	14,128	3,818	17,428
	Boeing	C/CPIF	Jan 96	20,397	20,397	16,107	1,100	1,074	200	1,737
	Engineering Services	Various	Various	N/A	N/A	14,162	1,199	206	290	4,611
	Program Management*	PO	Various	N/A	N/A	8,300	1,980	396	330	1,709
	Note*: Based on a Memorandum of Agreement, RDT&E program costs includes Navy PMA working capital funded personnel funded at 50%/50% ratio per Service.									
	<u>Support and Management Organizations</u>									
	Various Contracts	FFP	Various	N/A	N/A	1,811	792	480	315	59
	<u>Test and Evaluation Organizations</u>									
	Field Activities	PO	Oct 96	N/A	N/A	12,235	11,967	5,223	818	5,669
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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE		
							June 2001		
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT		
07 - Operational System Development				0207161F Tactical AIM Missiles			4132		
(U) <u>Government Furnished Property:</u>									
	<u>Contract</u>								
	<u>Method/Type</u>	<u>Award or</u>							
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Property</u>									
N/A	N/A	N/A	N/A	0	0	0	0	0	0
<u>Support and Management Property</u>									
N/A	N/A	N/A	N/A	0	0	0	0	0	0
<u>Test and Evaluation Property</u>									
N/A	N/A	N/A	N/A	0	0	0	0	0	0
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>				<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development				133,813	26,650	15,804	4,638	25,485	206,390
Subtotal Support and Management				1,811	792	480	315	59	3,457
Subtotal Test and Evaluation				12,235	11,967	5,223	818	5,669	35,912
Total Project				147,859	39,409	21,507	5,771	31,213	245,759

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