



## Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-581



### **AIM-9X**

As of December 31, 2010

Defense Acquisition Management  
Information Retrieval  
(DAMIR)

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**UNCLASSIFIED**

**Table of Contents**

Program Information .....	3
Responsible Office .....	3
References .....	3
Mission and Description .....	3
Executive Summary .....	4
Threshold Breaches .....	5
Schedule .....	6
Performance .....	8
Track To Budget .....	10
Cost and Funding .....	11
Low Rate Initial Production .....	22
Foreign Military Sales .....	23
Nuclear Cost .....	25
Unit Cost .....	26
Cost Variance .....	29
Contracts .....	32
Deliveries and Expenditures .....	34
Operating and Support Cost .....	35

## Program Information

### Designation And Nomenclature (Popular Name)

AIM-9X/Air-to-Air Missile

### DoD Component

Navy

### Joint Participants

Air Force

## Responsible Office

### Responsible Office

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## References

### SAR Baseline (Production Estimate)

Navy Acquisition Executive (NAE) Approved Acquisition Program Baseline (APB) dated May 15, 2004

### Approved APB

NAE Approved Acquisition Program Baseline (APB) dated May 8, 2010

## Mission and Description

The AIM-9X Sidewinder is a 5th generation Infra-Red (IR) Air-to-Air missile that complements the Advanced Medium Range Air-to-Air Missile (AMRAAM). Air superiority is essential to the warfighter and includes first-shot, first-kill opportunity against an enemy employing IR countermeasures. Improvements in missile seeker performance and kinematic capability allow current missile components to be retrofitted to the maximum extent possible. These improvements extend the AIM-9X's capability into the Beyond Visual Range arena resulting in a more effective balance with AMRAAM. AIM-9X provides a kill region before a fighter-bogey merge, where AMRAAM capability is not achievable at high off boresight angles or may be denied by electronic attack.

## Executive Summary

### Executive Summary

The program continued to meet all production deliveries during this reporting period. Raytheon Missile Systems (RMS) delivered all of Lot 8 deliveries (504) on time, with the last delivery in January 2010. Lot 9 production (596) began in February 2010 with a mix of AIM-9X tactical and AIM-9X-2 Captive Air Training Missile (CATM) deliveries in June 2010. The Lot 10 Production contract was awarded in June 2010. This procurement consisted of AIM-9X Block I All-Up-Rounds (AURs) and Block II test articles.

The AIM-9X-2 CATMs with a re-host of baseline capabilities completed Developmental Test and Operational Test Evaluation in December 2010. To date, Block II Developmental Testing (DT) is showing satisfactory results supporting the Capabilities Production Document (CPD). On December 10, 2010 the program successfully demonstrated lofting algorithms and demonstrated Data Link capabilities. This 3<sup>rd</sup> DT shot was the first time the AIM-9X-2 performed a lofted launch and integrated Data Link into guidance solution during fly out. The program is currently meeting all expected performance requirements.

The AIM-9X program submitted a Program Deviation Report (PDR) in March 2010 reflecting a deviation from the current Acquisition Program Baseline (APB), dated August 4, 2005 for procurement cost and Average Procurement Unit Cost (APUC)/Program Acquisition Unit Cost (PAUC) metrics. The PDR resulted from reallocation of quantities from FY 2018 into future years. The revised APB was approved by Assistant Secretary of the Navy/Research Development Acquisition on May 8, 2010.

The AIM-9X Block II is being established as a pre- Major Defense Acquisition Program (MDAP) separate program from the AIM-9X baseline program, that grew out of a series of independent Engineering Change Proposals (ECPs) to address component obsolescence on the Baseline program.

There are no significant software related issues with this program.

## Threshold Breaches

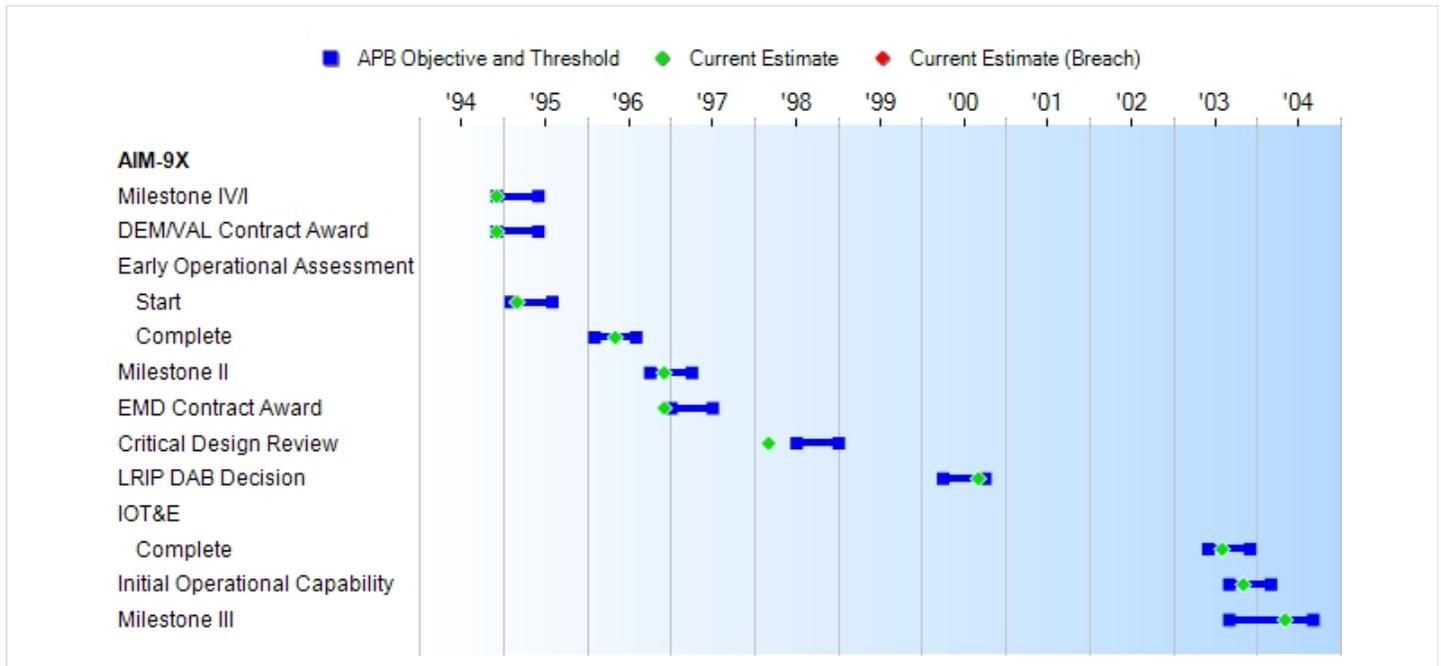
### APB Breaches

<b>Schedule</b>		<input type="checkbox"/>
<b>Performance</b>		<input type="checkbox"/>
<b>Cost</b>	RDT&E	<input type="checkbox"/>
	Procurement	<input type="checkbox"/>
	MILCON	<input type="checkbox"/>
	Acq O&M	<input type="checkbox"/>
<b>Unit Cost</b>	PAUC	<input type="checkbox"/>
	APUC	<input type="checkbox"/>

### Nunn-McCurdy Breaches

<b>Current UCR Baseline</b>		
	PAUC	None
	APUC	None
<b>Original UCR Baseline</b>		
	PAUC	None
	APUC	None

### Schedule



Milestones	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate
Milestone IV/I	DEC 1994	DEC 1994	JUN 1995	DEC 1994
DEM/VAL Contract Award	DEC 1994	DEC 1994	JUN 1995	DEC 1994
Early Operational Assessment				
Start	FEB 1995	FEB 1995	AUG 1995	MAR 1995
Complete	FEB 1996	FEB 1996	AUG 1996	MAY 1996
Milestone II	OCT 1996	OCT 1996	APR 1997	DEC 1996
EMD Contract Award	JAN 1997	JAN 1997	JUL 1997	DEC 1996
Critical Design Review	JUL 1998	JUL 1998	JAN 1999	MAR 1998
LRIP DAB Decision	APR 2000	APR 2000	OCT 2000	SEP 2000
IOT&E				
Complete	JUN 2003	JUN 2003	DEC 2003	AUG 2003
Initial Operational Capability	SEP 2003	SEP 2003	MAR 2004	NOV 2003
Milestone III	SEP 2003	SEP 2003	SEP 2004	MAY 2004

#### Acronyms And Abbreviations

DAB - Defense Acquisition Board  
 DEM/VAL - Demonstration and Validation  
 EMD - Engineering and Manufacturing Development  
 IOT&E - Initial Operational Test and Evaluation

LRIP - Low Rate Initial Production

**Change Explanations**

None

## Performance

Characteristics	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Demonstrated Performance	Current Estimate
Day/Night Capability	Yes	Yes	Yes	Yes	Yes
Aircraft Interface					
Missile Weight (lbs)	<.or.= 192	<.or.= 192	<.or.= 210	185.6	<.or.= 192
Missile Size					
Length (in.)	<.or.= 115	<.or.= 115	<.or.= 123	119	<.or.= 115
Box Size (in.)	<.or.= 12.5 x 12.5	<.or.= 12.5 x 12.5	<.or.= 12.5 x 12.5	<.or.= 12.5 x 12.5	<.or.= 12.5 x 12.5
Diameter (in.)	5	5	<.or.= 7	5	5
Digital Interface	Employ from current fighter aircraft without digital interface	Employ from current fighter aircraft without digital interface	Employ from future/current fighter aircraft with digital interface	Employ from current fighter aircraft without digital interface	Employ from current fighter aircraft without digital interface
Off Boresight Capability					
Cueing/Verification	Interface to all current and planned aircraft systems which provide accurate Line of Site to target	Interface to all current and planned aircraft systems which provide accurate Line of Site to target	Interface with current/planned aircraft radar systems and planned Helmet Mounted Cueing System (HMCS)	Interface to all current and planned aircraft systems which provide accurate Line of Site to target	Interface to all current and planned aircraft systems which provide accurate Line of Site to target
Captive Carry Reliability (hr.)	>.or.= 900 MTBCF	>.or.= 900 MTBCF	>.or.= 300 MTBCF	1507	>.or.= 900 MTBCF
Detect Non-Operational Missile (BIT) All Components	>.or.= 0.80	>.or.= 0.80	>.or.= 0.60	.8	>.or.= 0.80
Detect Non-Operational Missile (BIT-able Components)	>.or.= 0.95	>.or.= 0.95	>.or.= 0.90	.95	>.or.= 0.95
False Alarm Rate	<.or.=.01	<.or.=.01	<.or.= 0.01	.01	<.or.=.01
BIT Time (sec)	<.or.=20	<.or.=20	<.or.=20	15	<.or.=20

**Requirements Source:** Operational Requirements Document (ORD) #628-71-04 dated March 19, 2003

### Acronyms And Abbreviations

BIT - Built-In-Test

hr. - hours

in. - inches

lbs - pounds

MTBCF - Mean Time Between Critical Failure

sec - seconds

**Change Explanations**

None

Classified Performance information is provided in the classified annex to this submission.

**Track To Budget****RDT&E**

APPN 1319	BA 07	PE 0207161N	(Navy)
	Project 0457	Tactical Air Intercept/AIM-9X	
APPN 3600	BA 07	PE 0207161F	(Air Force)
	Project 4132	Tactical Air Intercept/AIM-9X	
APPN 0400	BA 07	PE 0603715D	(DoD)
	Project 0456	Tactical Air Intercept/AIM-9X	(Sunk)

**Procurement**

APPN 1507	BA 02	PE 0204162N	(Navy)
	ICN 2209	AIM-9X Sidewinder	
APPN 1507	BA 02	PE 0206138M	(Navy)
	ICN 2209	AIM-9X Sidewinder	
	USMC funding received as WPN		
APPN 3020	BA 02	PE 0207161F	(Air Force)
	ICN M09HAI	AIM-9X Sidewinder	

## Cost and Funding

### Cost Summary

#### Total Acquisition Cost and Quantity

Appropriation	BY1997 \$M			BY1997 \$M	TY \$M		
	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDT&E	531.4	623.5	685.9	651.4	553.5	656.5	693.2
Procurement	1932.6	2232.7	2456.0	2287.9	2679.4	3010.3	3061.4
Flyaway	1677.2	--	--	2239.4	2335.8	--	2999.1
Recurring	1582.5	--	--	2172.1	2214.8	--	2915.1
Non Recurring	94.7	--	--	67.3	121.0	--	84.0
Support	255.4	--	--	48.5	343.6	--	62.3
Other Support	216.3	--	--	8.3	297.3	--	9.2
Initial Spares	39.1	--	--	40.2	46.3	--	53.1
MILCON	0.0	0.0	--	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	2464.0	2856.2	N/A	2939.3	3232.9	3666.8	3754.6

Funding for Seek Eagle is not included in the current estimate above and is managed at Eglin Air Force Base (AFB), FL. The Seek Eagle Office is the flight clearance agency for the Air Force.

Funding for Pre-planned Product Improvement (P3I) Active Optical Target Detector (AOTD) Program is included in the Research, Development Test and Evaluation (RDT&E) appropriation.

The current APB cost estimate provided sufficient resources to execute the program under normal conditions, encountering average levels of technical, schedule and programmatic risk and external interference. It was consistent with average resource expenditures on historical efforts of similar size, scope, and complexity and represents a notional 50% confidence level.

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	49	45	45
Procurement	10000	10097	10097
Total	10049	10142	10142

## Cost and Funding

### Funding Summary

#### Appropriation and Quantity Summary FY2012 President's Budget / December 2010 SAR (TY\$ M)

Appropriation	Prior	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	To Complete	Total
RDT&E	620.7	6.9	16.8	13.2	10.5	11.5	13.6	0.0	693.2
Procurement	938.0	122.2	138.2	142.0	146.2	147.7	149.0	1278.1	3061.4
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2012 Total	1558.7	129.1	155.0	155.2	156.7	159.2	162.6	1278.1	3754.6
PB 2011 Total	1558.3	129.1	121.4	121.0	128.2	128.9	124.8	1355.1	3666.8
Delta	0.4	0.0	33.6	34.2	28.5	30.3	37.8	-77.0	87.8

Quantity	Undistributed	Prior	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	To Complete	Total
Development	45	0	0	0	0	0	0	0	0	45
Production	0	3097	333	372	385	425	428	419	4638	10097
PB 2012 Total	45	3097	333	372	385	425	428	419	4638	10142
PB 2011 Total	45	3367	333	308	308	351	352	344	4734	10142
Delta	0	-270	0	64	77	74	76	75	-96	0

## Cost and Funding

### Annual Funding By Appropriation

#### Annual Funding TY\$

#### 0400 | RDT&E | Research, Development, Test, and Evaluation, Defense-Wide

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
1995	--	--	--	--	--	--	46.4
<b>Subtotal</b>	--	--	--	--	--	--	<b>46.4</b>

**Annual Funding BY\$****0400 | RDT&E | Research, Development, Test, and Evaluation, Defense-Wide**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1997 \$M</b>	<b>Non End Item Recurring Flyaway BY 1997 \$M</b>	<b>Non Recurring Flyaway BY 1997 \$M</b>	<b>Total Flyaway BY 1997 \$M</b>	<b>Total Support BY 1997 \$M</b>	<b>Total Program BY 1997 \$M</b>
1995	--	--	--	--	--	--	47.6
<b>Subtotal</b>	--	--	--	--	--	--	<b>47.6</b>

## Annual Funding TY\$

## 1319 | RDT&amp;E | Research, Development, Test, and Evaluation, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
1996	--	--	--	--	--	--	28.1
1997	--	--	--	--	--	--	44.6
1998	--	--	--	--	--	--	55.1
1999	--	--	--	--	--	--	57.0
2000	--	--	--	--	--	--	39.5
2001	--	--	--	--	--	--	23.8
2002	--	--	--	--	--	--	17.2
2003	--	--	--	--	--	--	2.8
2004	--	--	--	--	--	--	2.1
2005	--	--	--	--	--	--	3.9
2006	--	--	--	--	--	--	9.2
2007	--	--	--	--	--	--	7.9
2008	--	--	--	--	--	--	4.8
2009	--	--	--	--	--	--	8.4
2010	--	--	--	--	--	--	2.3
2011	--	--	--	--	--	--	0.9
2012	--	--	--	--	--	--	8.8
2013	--	--	--	--	--	--	5.0
2014	--	--	--	--	--	--	0.8
2015	--	--	--	--	--	--	0.8
2016	--	--	--	--	--	--	0.8
<b>Subtotal</b>	<b>23</b>	--	--	--	--	--	<b>323.8</b>

**Annual Funding BY\$****1319 | RDT&E | Research, Development, Test, and Evaluation, Navy**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1997 \$M</b>	<b>Non End Item Recurring Flyaway BY 1997 \$M</b>	<b>Non Recurring Flyaway BY 1997 \$M</b>	<b>Total Flyaway BY 1997 \$M</b>	<b>Total Support BY 1997 \$M</b>	<b>Total Program BY 1997 \$M</b>
1996	--	--	--	--	--	--	28.3
1997	--	--	--	--	--	--	44.4
1998	--	--	--	--	--	--	54.4
1999	--	--	--	--	--	--	55.6
2000	--	--	--	--	--	--	38.0
2001	--	--	--	--	--	--	22.6
2002	--	--	--	--	--	--	16.2
2003	--	--	--	--	--	--	2.6
2004	--	--	--	--	--	--	1.9
2005	--	--	--	--	--	--	3.4
2006	--	--	--	--	--	--	7.8
2007	--	--	--	--	--	--	6.6
2008	--	--	--	--	--	--	3.9
2009	--	--	--	--	--	--	6.8
2010	--	--	--	--	--	--	1.8
2011	--	--	--	--	--	--	0.7
2012	--	--	--	--	--	--	6.8
2013	--	--	--	--	--	--	3.8
2014	--	--	--	--	--	--	0.6
2015	--	--	--	--	--	--	0.6
2016	--	--	--	--	--	--	0.6
<b>Subtotal</b>	<b>23</b>	--	--	--	--	--	<b>307.4</b>

**Annual Funding TY\$****3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway TY \$M</b>	<b>Non End Item Recurring Flyaway TY \$M</b>	<b>Non Recurring Flyaway TY \$M</b>	<b>Total Flyaway TY \$M</b>	<b>Total Support TY \$M</b>	<b>Total Program TY \$M</b>
1996	--	--	--	--	--	--	18.8
1997	--	--	--	--	--	--	29.1
1998	--	--	--	--	--	--	50.9
1999	--	--	--	--	--	--	49.0
2000	--	--	--	--	--	--	39.4
2001	--	--	--	--	--	--	21.7
2002	--	--	--	--	--	--	6.8
2003	--	--	--	--	--	--	2.8
2004	--	--	--	--	--	--	0.3
2005	--	--	--	--	--	--	5.3
2006	--	--	--	--	--	--	15.4
2007	--	--	--	--	--	--	8.9
2008	--	--	--	--	--	--	7.7
2009	--	--	--	--	--	--	5.6
2010	--	--	--	--	--	--	5.9
2011	--	--	--	--	--	--	6.0
2012	--	--	--	--	--	--	8.0
2013	--	--	--	--	--	--	8.2
2014	--	--	--	--	--	--	9.7
2015	--	--	--	--	--	--	10.7
2016	--	--	--	--	--	--	12.8
<b>Subtotal</b>	<b>22</b>	--	--	--	--	--	<b>323.0</b>

**Annual Funding BY\$****3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1997 \$M</b>	<b>Non End Item Recurring Flyaway BY 1997 \$M</b>	<b>Non Recurring Flyaway BY 1997 \$M</b>	<b>Total Flyaway BY 1997 \$M</b>	<b>Total Support BY 1997 \$M</b>	<b>Total Program BY 1997 \$M</b>
1996	--	--	--	--	--	--	18.9
1997	--	--	--	--	--	--	28.9
1998	--	--	--	--	--	--	50.3
1999	--	--	--	--	--	--	47.9
2000	--	--	--	--	--	--	38.0
2001	--	--	--	--	--	--	20.6
2002	--	--	--	--	--	--	6.4
2003	--	--	--	--	--	--	2.6
2004	--	--	--	--	--	--	0.3
2005	--	--	--	--	--	--	4.7
2006	--	--	--	--	--	--	13.2
2007	--	--	--	--	--	--	7.4
2008	--	--	--	--	--	--	6.3
2009	--	--	--	--	--	--	4.5
2010	--	--	--	--	--	--	4.7
2011	--	--	--	--	--	--	4.7
2012	--	--	--	--	--	--	6.2
2013	--	--	--	--	--	--	6.3
2014	--	--	--	--	--	--	7.3
2015	--	--	--	--	--	--	7.9
2016	--	--	--	--	--	--	9.3
<b>Subtotal</b>	<b>22</b>	--	--	--	--	--	<b>296.4</b>

**Annual Funding TY\$****1507 | Procurement | Weapons Procurement, Navy**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway TY \$M</b>	<b>Non End Item Recurring Flyaway TY \$M</b>	<b>Non Recurring Flyaway TY \$M</b>	<b>Total Flyaway TY \$M</b>	<b>Total Support TY \$M</b>	<b>Total Program TY \$M</b>
2001	63	25.2	--	0.3	25.5	2.1	27.6
2002	105	23.3	--	0.1	23.4	1.5	24.9
2003	284	51.5	--	0.1	51.6	1.8	53.4
2004	103	24.7	--	0.1	24.8	1.9	26.7
2005	135	30.6	--	0.1	30.7	0.5	31.2
2006	159	36.9	--	0.1	37.0	0.1	37.1
2007	174	40.0	--	0.1	40.1	0.1	40.2
2008	170	50.3	--	3.0	53.3	0.1	53.4
2009	114	47.0	--	10.3	57.3	0.5	57.8
2010	45	33.1	--	20.6	53.7	1.1	54.8
2011	155	55.0	--	0.2	55.2	0.9	56.1
2012	132	46.8	--	0.2	47.0	0.8	47.8
2013	145	51.6	--	0.2	51.8	0.7	52.5
2014	185	60.8	--	0.3	61.1	0.6	61.7
2015	188	61.8	--	0.3	62.1	0.7	62.8
2016	179	62.8	--	0.1	62.9	0.7	63.6
2017	185	63.8	--	0.1	63.9	0.9	64.8
2018	400	105.6	--	0.1	105.7	0.9	106.6
2019	400	105.9	--	0.1	106.0	0.9	106.9
2020	400	106.2	--	0.1	106.3	0.9	107.2
2021	402	100.1	--	0.1	100.2	0.9	101.1
2022	448	111.0	--	0.1	111.1	1.0	112.1
2023	429	113.8	--	0.1	113.9	1.0	114.9
<b>Subtotal</b>	<b>5000</b>	<b>1407.8</b>	<b>--</b>	<b>36.8</b>	<b>1444.6</b>	<b>20.6</b>	<b>1465.2</b>

**Annual Funding BY\$****1507 | Procurement | Weapons Procurement, Navy**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1997 \$M</b>	<b>Non End Item Recurring Flyaway BY 1997 \$M</b>	<b>Non Recurring Flyaway BY 1997 \$M</b>	<b>Total Flyaway BY 1997 \$M</b>	<b>Total Support BY 1997 \$M</b>	<b>Total Program BY 1997 \$M</b>
2001	63	23.6	--	0.3	23.9	2.0	25.9
2002	105	21.6	--	0.1	21.7	1.4	23.1
2003	284	46.8	--	0.1	46.9	1.6	48.5
2004	103	21.8	--	0.1	21.9	1.7	23.6
2005	135	26.3	--	0.1	26.4	0.4	26.8
2006	159	30.9	--	0.1	31.0	0.1	31.1
2007	174	32.8	--	0.1	32.9	0.1	33.0
2008	170	40.7	--	2.4	43.1	0.1	43.2
2009	114	37.6	--	8.2	45.8	0.4	46.2
2010	45	26.1	--	16.2	42.3	0.9	43.2
2011	155	42.8	--	0.2	43.0	0.6	43.6
2012	132	35.8	--	0.2	36.0	0.6	36.6
2013	145	38.8	--	0.2	39.0	0.5	39.5
2014	185	45.0	--	0.2	45.2	0.5	45.7
2015	188	45.0	--	0.2	45.2	0.5	45.7
2016	179	44.9	--	0.1	45.0	0.5	45.5
2017	185	44.9	--	0.1	45.0	0.6	45.6
2018	400	73.0	--	0.1	73.1	0.6	73.7
2019	400	72.0	--	0.1	72.1	0.6	72.7
2020	400	71.0	--	0.1	71.1	0.6	71.7
2021	402	65.8	--	0.1	65.9	0.6	66.5
2022	448	71.8	--	0.1	71.9	0.6	72.5
2023	429	72.4	--	0.1	72.5	0.5	73.0
<b>Subtotal</b>	<b>5000</b>	<b>1031.4</b>	<b>--</b>	<b>29.5</b>	<b>1060.9</b>	<b>16.0</b>	<b>1076.9</b>

**Annual Funding TY\$**  
**3020 | Procurement | Missile Procurement, Air Force**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway TY \$M</b>	<b>Non End Item Recurring Flyaway TY \$M</b>	<b>Non Recurring Flyaway TY \$M</b>	<b>Total Flyaway TY \$M</b>	<b>Total Support TY \$M</b>	<b>Total Program TY \$M</b>
2001	67	25.8	--	0.6	26.4	2.3	28.7
2002	138	30.7	--	--	30.7	3.5	34.2
2003	286	53.1	--	--	53.1	2.6	55.7
2004	256	52.3	--	--	52.3	2.8	55.1
2005	248	52.2	--	0.1	52.3	1.7	54.0
2006	196	44.3	--	0.1	44.4	1.4	45.8
2007	183	43.5	--	0.1	43.6	1.5	45.1
2008	149	51.9	--	0.5	52.4	1.5	53.9
2009	157	64.0	--	13.0	77.0	1.2	78.2
2010	65	47.4	--	31.1	78.5	1.7	80.2
2011	178	64.3	--	0.2	64.5	1.6	66.1
2012	240	88.5	--	0.2	88.7	1.7	90.4
2013	240	87.6	--	0.2	87.8	1.7	89.5
2014	240	82.6	--	0.2	82.8	1.7	84.5
2015	240	83.0	--	0.2	83.2	1.7	84.9
2016	240	83.5	--	0.1	83.6	1.8	85.4
2017	249	84.9	--	0.1	85.0	1.8	86.8
2018	400	107.7	--	0.1	107.8	1.8	109.6
2019	400	108.0	--	0.1	108.1	1.9	110.0
2020	400	108.2	--	0.1	108.3	1.9	110.2
2021	398	109.5	--	0.1	109.6	1.9	111.5
2022	127	34.3	--	0.1	34.4	2.0	36.4
<b>Subtotal</b>	<b>5097</b>	<b>1507.3</b>	<b>--</b>	<b>47.2</b>	<b>1554.5</b>	<b>41.7</b>	<b>1596.2</b>

**Annual Funding BY\$****3020 | Procurement | Missile Procurement, Air Force**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1997 \$M</b>	<b>Non End Item Recurring Flyaway BY 1997 \$M</b>	<b>Non Recurring Flyaway BY 1997 \$M</b>	<b>Total Flyaway BY 1997 \$M</b>	<b>Total Support BY 1997 \$M</b>	<b>Total Program BY 1997 \$M</b>
2001	67	24.3	--	0.6	24.9	2.2	27.1
2002	138	28.5	--	--	28.5	3.2	31.7
2003	286	48.7	--	--	48.7	2.4	51.1
2004	256	46.9	--	--	46.9	2.5	49.4
2005	248	45.5	--	0.1	45.6	1.5	47.1
2006	196	37.6	--	0.1	37.7	1.1	38.8
2007	183	36.0	--	0.1	36.1	1.2	37.3
2008	149	42.2	--	0.4	42.6	1.2	43.8
2009	157	51.4	--	10.4	61.8	1.0	62.8
2010	65	37.5	--	24.6	62.1	1.4	63.5
2011	178	50.2	--	0.2	50.4	1.2	51.6
2012	240	68.0	--	0.2	68.2	1.2	69.4
2013	240	66.2	--	0.2	66.4	1.2	67.6
2014	240	61.4	--	0.1	61.5	1.3	62.8
2015	240	60.6	--	0.1	60.7	1.3	62.0
2016	240	60.0	--	0.1	60.1	1.2	61.3
2017	249	60.0	--	0.1	60.1	1.2	61.3
2018	400	74.8	--	0.1	74.9	1.2	76.1
2019	400	73.7	--	0.1	73.8	1.3	75.1
2020	400	72.6	--	0.1	72.7	1.3	74.0
2021	398	72.3	--	0.1	72.4	1.2	73.6
2022	127	22.3	--	0.1	22.4	1.2	23.6
<b>Subtotal</b>	<b>5097</b>	<b>1140.7</b>	<b>--</b>	<b>37.8</b>	<b>1178.5</b>	<b>32.5</b>	<b>1211.0</b>

**Low Rate Initial Production**

	<b>Initial LRIP Decision</b>	<b>Current Total LRIP</b>
<b>Approval Date</b>	12/19/1996	8/14/2003
<b>Approved Quantity</b>	1000	1302
<b>Reference</b>	ADM	ADM
<b>Start Year</b>	2001	2001
<b>End Year</b>	2003	2004

The LRIP quantities were approved at Milestone II on Acquisition Decision Memorandum (ADM) dated December 19, 1996. Permission to exceed the 10% planned program buy was granted on April 10, 2003 by Assistant Secretary of the Navy, Research, Development and Acquisition (ASN (RD&A)) in order to maintain production line stability.

## Foreign Military Sales

Country	Date of Sale	Quantity	Total Cost \$M	Memo
South Korea	6/28/2010	16	5.4	Last AIM-9X Block I sale.
South Korea	6/25/2010	67	28.7	
Australia	6/15/2009	4	0.9	Contract value also includes 16 NATM's.
Saudi Arabia	6/5/2009	206	52.5	
Australia	1/11/2008	67	20.9	Total cost also includes Special Air Training Missiles (NATMs).
South Korea	1/11/2008	128	31.5	
Finland	4/23/2007	140	25.2	
Singapore	4/23/2007	56	16.1	Total cost also includes Special Air Training Missiles (NATMs).
Switzerland	4/23/2007		15.3	Quantity is classified. Congress notified of potential sale of up to 222 missiles. Contract value includes 5 NATM's.
Switzerland	12/12/2006		3.3	Quantity is classified.
Denmark	4/28/2006	2	0.5	
Turkey	2/22/2006	149	35.3	
Switzerland	12/8/2005		2.4	Quantity is classified
Switzerland	3/16/2005		2.2	Quantity is classified.
Denmark	3/10/2005	132	22.6	
Poland	11/18/2004	198	46.4	
South Korea	11/18/2004	41	9.9	
Switzerland	11/18/2004		17.6	Quantity is classified.
Switzerland	8/19/2004		1.7	Quantity is classified.
Finland	5/17/2004	3	0.5	
South Korea	3/2/2004	80	17.8	

### AIM-9X Prospective Purchasers

1. Portugal: The Portuguese Air Force (PoAF) received an AIM-9X Block I capability brief in October 2006. In January 2007, Portugal requested 28 AIM-9X Block I tactical missiles and 15 Captive Air Training Missiles (CATMs). Portugal rejected Foreign Military Sales (FMS) Case PT-P-ADE in July 2007 primarily due to warranty concerns, short offer expiration date, and insufficient PoAF acquisition staffing.

2. The Netherlands: In April 2005, AIM-9X Block I capability briefs were presented to The Royal Netherlands Air Force (RNLAf). The Netherlands requested AIM-9X Block I Pricing and Availability (P&A) data, which was provided in November 2005. The RNLAf air-to-air missiles requirements staff indicates they will wait for AIM-9X Block II missiles. An AIM-9X-2 capability brief was presented to the RNLAf in December 2010. FMS case NO-P-LCE (P&A) for 200 tactical AIM-9X-2 missiles and 40 CATM-9X-2 missiles, was offered to the Government of Norway on January 11, 2011.

3. Belgium: In April 2005, AIM-9X Block I capability briefs were presented to the Belgium Air Force. The Belgium Air Force received a program update in May 2007. An AIM-9X-2 capability brief was presented to the RNLAf in December 2010.

4. Kuwait: In November 2006, Kuwait Air Force requested P&A for 80 AIM-9X tactical missiles. FMS Case KU-P-

ABG (P&A) was offered to the Government of Kuwait on November 30, 2010.

5. Jordan: In January 2008, Jordanian Air Force requested P&A for 50 AIM-9X tactical missiles. JO-P-AAJ was cancelled by Navy International Programs Office (IPO) on June 28, 2010.

6. Malaysia: In February 2008, Royal Malaysian Air Force (RMAF) requested Letter of Offer and Acceptance (LOA). The quantities requested by the RMAF were not considered significant operational quantities and in March 2010 they were requested to revise the Letter of Request (LOR) accordingly. To date, the Malaysians have not revised the LOR.

7. Qatar: In April 2008, Qatar Air Force (QAF) requested a brief on the AIM-9X weapon system. An AIM-9X-2 capability brief was presented to the QAF on June 5, 2010.

8. Bahrain: In July 2008, Bahrain Air Force (BAF) requested P&A for 26 AIM-9X tactical missiles. The U.S. Embassy has not provided a Country Team Assessment (CTA) to endorse this request for Major Defense Equipment (MDE) to Navy International Programs Office (IPO).

9. UAE: In December 2008, UAE Air Force (UAEAF) requested P&A for 218 AIM-9X tactical missiles and 40 CATMs. An AIM-9X-2 capability brief was presented to the UAEAF on June 7, 2010. The AIM-9X FMS case will most likely be offered in 2011.

10. Oman: In August 2009, Oman Air Force (OAF) requested P&A for an unspecified quantity of AIM-9X tactical missiles. In June 2010, OAF cancelled the P&A and replaced it with a Request for Information (RFI) for a classified capabilities brief.

11. Morocco: In April 2009, Moroccan Air Force requested LOA for 20 AIM-9X tactical missiles and 10 CATMs. 36 (b)1 Congressional Notification package was forwarded to Navy IPO in September 2010.

12. Saudi Arabia: In June 2010, the Royal Saudi Air Force (RSAF) requested P&A for F-15 aircraft and associated weapons. In January 2011, the quantities of AIM-9X-2 missiles in the USAF FMS case were reduced to 120 tactical and 34 CATMs. The USAF F-15 case is on track to be offered in March 2011; the expectation is to have a signed/accepted case in April 2011.

13. Chile: In September 2009, Chilean Air Force requested LOA for 8 AIM-9X tactical missiles and 12 CATMs.

14. Romania: In September 2009, Romanian Air Force (RAF) requested LOA for 50 AIM-9X tactical missiles and 14 CATMs. AIM-9X procurement is contingent upon RAF procuring F-16 aircraft.

15. Norway: In December 2009, Norwegian Defence Logistic Organization (NDLO), on behalf of the Norwegian Ministry of Defense (MOD), requested P&A for 200 AIM-9X tactical missiles and 20 CATMs. FMS Case NO-P-LCE (P&A) was offered to the Government of Norway on January 11, 2011.

16. Thailand: The Royal Thai Air Force on 29 March 2010 submitted a P&A LOR for ten AIM-9X-2 missiles. A disclosure review is underway. After further consultation with the Joint U.S. Military Advisory Group (JUSMAG) and the RTAF in early 2011, the LOR will be revised to 36 tactical missiles and 12 CATMs.

17. Singapore: In January 2011, the Royal Singapore Air Force (RSAF) requested an AIM-9X-2 capabilities brief.

## **Nuclear Cost**

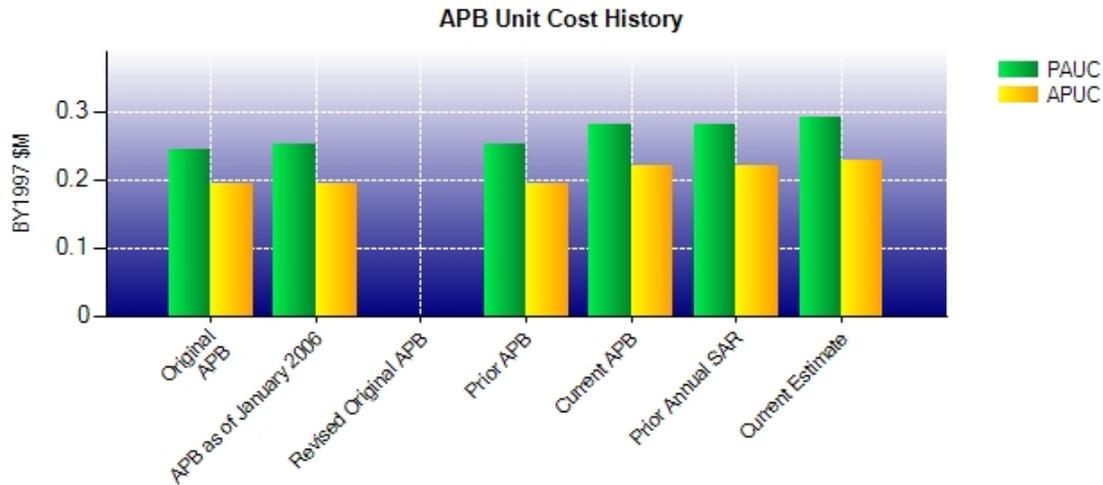
None.

**Unit Cost****Unit Cost Report**

	BY1997 \$M	BY1997 \$M	
Unit Cost	Current UCR Baseline (MAY 2010 APB)	Current Estimate (DEC 2010 SAR)	BY % Change
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost	2856.2	2939.3	
Quantity	10142	10142	
Unit Cost	0.282	0.290	+2.84
<b>Average Procurement Unit Cost (APUC)</b>			
Cost	2232.7	2287.9	
Quantity	10097	10097	
Unit Cost	0.221	0.227	+2.71

	BY1997 \$M	BY1997 \$M	
Unit Cost	Original UCR Baseline (JAN 1997 APB)	Current Estimate (DEC 2010 SAR)	BY % Change
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost	2464.0	2939.3	
Quantity	10049	10142	
Unit Cost	0.245	0.290	+18.37
<b>Average Procurement Unit Cost (APUC)</b>			
Cost	1932.6	2287.9	
Quantity	10000	10097	
Unit Cost	0.193	0.227	+17.62

### Unit Cost History



	Date	BY1997 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
<b>Original APB</b>	JAN 1997	0.245	0.193	0.322	0.268
<b>APB as of January 2006</b>	AUG 2005	0.252	0.193	0.328	0.268
<b>Revised Original APB</b>	N/A	N/A	N/A	N/A	N/A
<b>Prior APB</b>	AUG 2005	0.252	0.193	0.328	0.268
<b>Current APB</b>	MAY 2010	0.282	0.221	0.362	0.298
<b>Prior Annual SAR</b>	DEC 2009	0.282	0.221	0.362	0.298
<b>Current Estimate</b>	DEC 2010	0.290	0.227	0.370	0.303

### SAR Unit Cost History

#### Initial SAR Baseline to Current SAR Baseline (TY \$M)

Initial PAUC Dev Est	Changes								PAUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.344	-0.031	0.000	0.014	0.020	-0.001	0.000	-0.024	-0.022	0.322

#### Current SAR Baseline to Current Estimate (TY \$M)

PAUC Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.322	-0.029	-0.001	0.030	0.037	0.039	0.000	-0.028	0.048	0.370

**Initial SAR Baseline to Current SAR Baseline (TY \$M)**

Initial APUC Dev Est	Changes								APUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.294	-0.030	0.000	0.012	0.015	0.001	0.000	-0.024	-0.026	0.268

**Current SAR Baseline to Current Estimate (TY \$M)**

APUC Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.268	-0.028	-0.001	0.028	0.023	0.041	0.000	-0.028	0.035	0.303

**SAR Baseline History**

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone I	DEC 1994	DEC 1994	DEC 1994	DEC 1994
Milestone II	OCT 1996	OCT 1996	OCT 1996	DEC 1996
Milestone III	SEP 2002	MAR 2002	SEP 2003	MAY 2004
IOC	SEP 2003	AUG 2002	SEP 2003	NOV 2003
Total Cost (TY \$M)	695.0	3232.9	3232.9	3754.6
Total Quantity	N/A	10049	10049	10142
Prog. Acq. Unit Cost (PAUC)	N/A	0.322	0.322	0.370

**Cost Variance****Cost Variance Summary**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Prod Est)	553.5	2679.4	--	3232.9
Previous Changes				
Economic	-14.5	-266.1	--	-280.6
Quantity	-0.8	+20.3	--	+19.5
Schedule	+25.8	+281.2	--	+307.0
Engineering	+115.3	+151.3	--	+266.6
Estimating	-22.8	+430.4	--	+407.6
Other	--	--	--	--
Support	--	-286.2	--	-286.2
Subtotal	+103.0	+330.9	--	+433.9
Current Changes				
Economic	-0.4	-12.3	--	-12.7
Quantity	--	--	--	--
Schedule	--	-0.8	--	-0.8
Engineering	+32.9	+76.4	--	+109.3
Estimating	+4.2	-11.5	--	-7.3
Other	--	--	--	--
Support	--	-0.7	--	-0.7
Subtotal	+36.7	+51.1	--	+87.8
Total Changes	+139.7	+382.0	--	+521.7
CE - Cost Variance	693.2	3061.4	--	3754.6
CE - Cost & Funding	693.2	3061.4	--	3754.6

<b>Summary Base Year 1997 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Prod Est)	531.4	1932.6	--	2464.0
Previous Changes				
Economic	--	--	--	--
Quantity	-0.8	+13.7	--	+12.9
Schedule	+21.6	+42.7	--	+64.3
Engineering	+96.3	+116.3	--	+212.6
Estimating	-25.0	+333.7	--	+308.7
Other	--	--	--	--
Support	--	-206.3	--	-206.3
Subtotal	+92.1	+300.1	--	+392.2
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	+24.6	+60.3	--	+84.9
Estimating	+3.3	-4.5	--	-1.2
Other	--	--	--	--
Support	--	-0.6	--	-0.6
Subtotal	+27.9	+55.2	--	+83.1
Total Changes	+120.0	+355.3	--	+475.3
CE - Cost Variance	651.4	2287.9	--	2939.3
CE - Cost & Funding	651.4	2287.9	--	2939.3

Previous Estimate: December 2009

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	-0.4
Navy increase in funding for technical evaluations in support of Joint Requirements Oversight Council Memorandum (JROCM) for Insensitive Munitions (IM). (Engineering)	+6.5	+8.5
Air Force increase in funding for technical evaluations in support of JROCM for IM. (Engineering)	+18.1	+24.4
Adjustment for current and prior escalation. (Estimating)	+0.2	+0.2
Navy reallocated funding from Procurement to RDT&E to complete software development as part of Block II Milestone C approval. (Estimating)	+3.1	+4.0
RDT&E Subtotal	+27.9	+36.7

Procurement	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	-12.3
Navy stretch-out of procurement buy profile of 116 missiles from Fiscal Year (FY)10 to beyond Future Year Defense Program (FYDP). (Schedule)	0.0	+7.8
Air Force acceleration of procurement buy profile of 306 missiles to within FYDP. (Schedule)	0.0	-8.6
Navy increase due to the procurement of production test equipment and test articles to prepare for procurement and flight test. (Engineering)	+25.9	+32.8
Air Force increase due to the procurement of production test equipment and test articles to prepare for procurement and flight test. (Engineering)	+34.4	+43.6
Adjustment for current and prior escalation. (Estimating)	+3.8	+4.3
Navy revised estimate due to economies associated with future planned procurements and associated quantities. (Estimating)	-26.6	-42.2
Air Force revised estimate due to economies associated with future planned procurements and associated quantities. (Estimating)	+27.1	+39.6
Navy revised government estimate of program management costs. (Estimating)	-1.0	-1.4
Air Force revised government estimate for program management costs. (Estimating)	+5.4	+7.2
Navy revised estimate due to fewer Engineering Change Orders (ECO) than planned. (Estimating)	-12.2	-17.8
Air Force increase due to additional production engineering technical services. (Estimating)	+2.1	+2.8
Navy reallocated funding from Procurement to RDT&E to complete software development as part of Block II Milestone C approval. (Estimating)	-3.1	-4.0
Adjustment for current and prior escalation. (Support)	+0.2	+0.4
Navy decrease in Initial Spares due to program efficiencies. (Support)	-0.6	-0.8
Air Force decrease in Initial Spares due to program efficiencies. (Support)	-0.3	-0.3
Increase in Other Support (Air Force). (Support)	+0.1	0.0
Procurement Subtotal	+55.2	+51.1

## Contracts

### Appropriation: Procurement

Contract Name	<b>AIM-9X Lot 7</b>
Contractor	Raytheon Missile Systems
Contractor Location	Tucson, AZ 85743
Contract Number, Type	N00019-07-C-0008, FFP
Award Date	December 12, 2006
Definitization Date	December 12, 2006

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
64.3	N/A	357	237.2	N/A	357	238.0	238.0

### Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this FFP contract.

### Contract Comments

This contract includes funds from procurement, Research, Development, Test, and Evaluation (RDT&E), and Operations and Maintenance. This contract includes Foreign Military Sales (FMS) but funding and quantities are not reflected in this section.

The difference between the initial contract target price of \$64.3M and the current contract target price of \$237.2M are FY 2009 modifications that added \$144.6M for FY 2007- FY 2010 Engineering Technical Support, FY 2007- FY 2010 Logistics Support and Sustainment, FY 2007-FY 2010 Software Maintenance and Operational Test for Block I, and additional Block II hardware. FY 2010 modifications added \$28.3M for Software Maintenance & Deficiency Corrections, Operational flight program, update test equipment, and non warranty repairs.

**Appropriation: Procurement**

Contract Name	<b>AIM-9X Lot 9, Lot 10</b>
Contractor	Raytheon Missile Systems
Contractor Location	Tucson, AZ 85743
Contract Number, Type	N00019-09-C-0061, FFP
Award Date	June 15, 2009
Definitization Date	June 15, 2009

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
69.7	N/A	271	210.9	N/A	371	215.0	215.0

**Cost And Schedule Variance Explanations**

Cost and Schedule variance reporting is not required on this FFP contract.

**Contract Comments**

This contract includes Foreign Military Sales (FMS) but funding and quantities are not reflected in this section. The difference between the initial contract target price of \$69.7M and the current contract target price of \$210.9M is due to modifications to the contract. FY 2009 modifications added \$29.3M of funding to the contract for Proof of Manufacture/DesignTest Missiles, Other Customer Requirements, and Production Transition for the Block II Missile.

FY 2010 modification added Lot 10 contract award of \$96.0M plus an additional \$15.9M modification for FY 2010 Block I System Improvement Program (SIP) and Domestic Spares.

Initial contract price quantity changed from 271 to 371 adding Lot 10 missile quantity.

## Deliveries and Expenditures

Deliveries To Date	Plan To Date	Actual To Date	Total Quantity	Percent Delivered
Development	45	45	45	100.00%
Production	2867	2867	10097	28.39%
Total Program Quantities Delivered	2912	2912	10142	28.71%

Expenditures and Appropriations (TY \$M)			
Total Acquisition Cost	3754.6	Years Appropriated	17
Expenditures To Date	1487.5	Percent Years Appropriated	58.62%
Percent Expended	39.62%	Appropriated to Date	1687.8
Total Funding Years	29	Percent Appropriated	44.95%

Expenditures reflect data through December 31, 2010.

## Operating and Support Cost

### Assumptions And Ground Rules

The estimate for the Operating and Support costs (O&S) are as of December 2010.

Mission pay and allowance costs are the direct costs for the primary mission personnel and the costs to operate the joint service air-to-air missile (excluding base operating support). The estimate assumes 12 carriers (worst case) deployed per year (beginning in the third year of operations). Unit level consumption primarily relates to the annual training firings (Non Combat Expenditures Allowances (NCEA)) for the Navy and Weapon System Evaluation Program (WSEP) for the Air Force) and transportation cycle time of failed assets to and from the Depot. The cost estimate considers a 20-year service life for All-Up-Round (AUR) and a 20-year service life for the Captive Air Training Missile (CATM). The estimate spans a period of 35 years, beginning with FY 2009 and ending with FY 2043. FY 2003 to FY 2008, no missile repair costs were estimated due to warranty periods. Contractor support is required to repair AUR/CATM/container failures as a result of combat damage, catastrophic events, government misuse, abuse, or failure to exercise due diligence in testing, storing, or maintaining the warranted item in accordance with approved procedures and specifications. This cost includes the required repair for out of warranty missiles and containers, software support, and technical publication revisions. The sustaining support consists of systems engineering, and program management support and surveillance/quality/ obsolescence evaluation program. Intermediate maintenance and indirect costs are as noted.

The AIM-9M is the antecedent system to the AIM-9X. O&S costs for the AIM-9X are now paid up front with procurement dollars and are sent back to the manufacturer for repairs as warranted. This is different from the previous sectionalized maintenance with the AIM-9M, and therefore antecedent costs cannot be calculated in comparison with the current model.

Costs BY1997 \$M		
Cost Element	AIM-9X Average Annual Cost for all Missiles	AIM-9M
Unit-Level Manpower	0.37	--
Unit Operations	20.99	--
Maintenance	3.72	--
Sustaining Support	25.06	--
Continuing System Improvements	0.00	--
Indirect Support	0.24	--
Other	0.23	--
Total Unitized Cost (Base Year 1997 \$)	50.61	--

Total O&S Costs \$M	AIM-9X	AIM-9M
Base Year	2075.0	--
Then Year	3851.0	--

Last USN procurement of Tactical missiles is FY 2023 and for USAF is FY 2022. Last USN procurement of CATM missile is FY 2020 and for USAF is FY 2021. Both sustainment programs end in FY 2043. Sustainment period FY 2003 to FY 2043.

The average annual cost is the total cost by cost element divided by number of years of estimate. This is the annual average cost per year for the program for all missiles which includes the both AURs and CATMs.