



## Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-555



### **JASSM (JASSM/JASSM-ER)**

As of December 31, 2010

Defense Acquisition Management  
Information Retrieval  
(DAMIR)

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**UNCLASSIFIED**

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

Department of the Navy

## Responsible Office

### Responsible Office

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## References

### JASSM Baseline

#### SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated April 4, 2011

#### Approved APB

DAE Approved Acquisition Program Baseline (APB) dated April 4, 2011

### JASSM-ER

#### SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated April 4, 2011

#### Approved APB

DAE Approved Acquisition Program Baseline (APB) dated April 4, 2011

## **Mission and Description**

### **Introduction:**

The JASSM is a next generation cruise missile enabling the United States Air Force (USAF) to destroy the enemy's war-sustaining capabilities from outside its area air defenses. It is precise, lethal, survivable, flexible, and adverse-weather capable. JASSM's inherent accuracy (3 meters or less using the Imaging Infrared [IIR] seeker and less than 13 meters with Global Positioning System (GPS)/inertial navigation system ([INS] only) reduces the number of weapons and sorties required to destroy a target.

### **Mission:**

JASSM provides both fighter and bomber aircraft the capability to strike critical, high value, heavily defended targets early in a campaign.

### **Vision:**

To provide the warfighter with an autonomous, precision standoff strike weapon product line at an affordable cost and on schedule.

### **Description:**

JASSM and JASSM-ER are low observable, highly survivable, subsonic cruise missiles which carry a 1000-pound class, hardened, penetrating warhead with a robust blast fragmentation capability. The missiles employ an IIR seeker system to attack fixed, point targets requiring precision targeting. The missiles use GPS/INS for mid-course navigation and as a back up for terminal guidance. JASSM and JASSM-ER have a 15-year warranty and are stored in their container. A launch can occur over a wide range of altitudes and at ranges greater than 200nm (Baseline) or greater than 500nm (Extended Range).

### **CONOPS:**

JASSM employment will occur primarily in the early stages of conflict before air superiority is established, and in the later stages of conflict against high value targets remaining heavily defended. JASSM can also be employed in those cases where, due to rules of engagement/political constraints, high value, point targets must be attacked from international airspace. JASSM may be employed independently or the missile may be used as part of a composite package.

## **Executive Summary**

This is the first Selected Acquisition Report (SAR) that separates JASSM Baseline and JASSM-ER into sub-programs.

The 2008 JASSM Nunn-McCurdy Acquisition Decision Memorandum (ADM) directed the JASSM program into two separable increments (JASSM Baseline and JASSM-Extended Range). As of February 11, 2011 Congress determined that the JASSM Baseline and JASSM-ER would be most effectively managed as subprograms.

### **JASSM Baseline**

On January 12, 2010, a Joint Air-to-Surface Standoff Missile (JASSM) Production Upgrade Vehicle (PUV) flight test missile was released from a B-52 operated by the 49th Test and Evaluation Squadron over White Sands Missile Range. The test missile successfully separated from the test aircraft, navigated along the pre-planned route to the target area, and used the seeker to guide to the simulated building target where it detonated high order. This flight test validated a new Missile Control Unit (MCU), recently upgraded Actuator Control electronics and Digital Engine Controller (DEC), and a redesigned Air Data Probe (ADP), all which enhance missile performance and reduce the risk of future obsolescence in these components. All of the improvements are planned for Lot 8 production cut-in except for the ADP which was cut-in during Lot 7. Lot 7 missile production proceeded on schedule throughout the year and all 111 missiles were complete in December 2010.

On January 14, 2010, in lieu of a formal Defense Acquisition Board (DAB), the program office briefed the Air Force Service Acquisition Executive and the Defense Acquisition Executive on the planned Lot 8 Not-to-Exceed missile unit production price, total contract value, and impacts to critical suppliers if Lot 8 contract award was delayed. Based on the information provided, an Unfinalized Contract Action (UCA) award was approved for the Lot 8 contract for 158 JASSM missiles. The contract included JASSM Baseline, Foreign Military Sales (FMS), and JASSM-Extended Range (JASSM-ER) Initial Operational Test and Evaluation (IOT&E) missiles, warranty, non-recurring engineering activities, flight test support, and test instrumentation kits. The program office awarded the \$243.5 million UCA to Lockheed Martin (LM) on January 20, 2010 and was definitized on September 29, 2010.

The first employment of an unpowered JASSM Separation Test Vehicle from the F-15E, using the Universal Armament Interface (UAI) for the first time, was successfully conducted on May 5, 2010. A Jettison Test Vehicle (JTV-3) separated successfully from an Eglin Air Force Base F-15E on August 4, 2010. Two Station 8 (right wing) JTVs were successfully released from an Eglin F-15E on September 10 and 29, 2010. The last two Station 8 separation tests are on hold pending funding and test prioritization, as is the final F-15E All-Up Round test.

On September 7, 2010, for the first time, a Dyess-based B-1B took off with a maximum load-out (24) of JASSM baseline missiles. All weapons were powered and targeted, and (simulated) released successfully. There were no anomalies during the flight.

Early in the year, the JASSM team discovered that all Selective Availability Anti-Spoof Module-based Trimble Global Positioning System (GPS) receivers on Lots 5-7 and all JASSM-ER and FMS missiles experienced outages and subsequent system difficulty acquiring signals due to a GPS Control Segment software migration. Over the following months a software fix was developed, laboratory tested and delivered in a Trimble v6.12 software upgrade which was successfully flight tested on August 11, 2010.

### **JASSM-Extended Range (ER)**

In March 2010, the program office and LM completed all subsystem Production Readiness Reviews (PRR), to include the Klune fuel tank, Williams engine, and the Power Engine Control Unit (PECU). On April 16, 2010, the Vice Chairman, Joint Chiefs of Staff signed the Joint Requirements Oversight Council Memorandum, officially approving the JASSM-ER Capability Production Document (CPD) and validating the Key Performance Parameters. The

program office conducted the JASSM-ER system level Functional Configuration Audit at LM on June 15-16, 2010, and the system level PRR in mid-July 2010. Additionally, in June and July 2010, the program supported the two-phased, Office of the Secretary of Defense (OSD)-led Program Support Review (PSR), which was a critical element to the Milestone C (MS) decision.

The program office and OSD conducted the MS C 150-day out documentation review with OSD Acquisition, Technology and Logistics (OSD (AT&L)) on May 4, 2010. The meeting provided a good overview of expectations and identified some additional requirements to work prior to the DAB. The program office completed the Integrating Integrated Product Team (IIPT) (September 21, 2010), 45-day out documentation review (September 22, 2010), the DAB Planning Meeting (September 23, 2010), the Overarching Integrated Product Team (OIPT) (November 17, 2010) and the DAB Readiness Meeting (November 23, 2010). All meetings were successfully completed and culminated with the Under Secretary of Defense (AT&L) Principal Deputy's approval to proceed to a DAB.

On August 11, 2010, the JASSM-ER test team successfully conducted Integrated Test 6 (IT-6). This was the first of five fully production representative JASSM-ER flights with combined Development Test (DT) and OT objectives. The missile flew the pre-planned flight profile, covering over 500nm, and successfully destroyed the target with a high-order detonation. IT-6 was the seventh (of seven) successful flight tests for the JASSM-ER program. On September 2, 2010, the test team conducted the second and third shots of the final five IT flights with production representative hardware (IT-8 and IT-9). IT-9 was a Target of Opportunity shot released from the Intermediate Weapon Bay. The weapon separated cleanly, flew nominally, and destroyed the target with a high-order detonation. IT-8 was a long range, alternate attack profile shot using the missile's Automatic Target Correlator (seeker). The weapon separated cleanly but impacted short of the planned target. A joint LM/program office Failure Review Board (FRB) began on September 8, 2010 to determine the most likely cause. The IT-8 FRB team duplicated the telemetry indications seen during the IT-8 flight and concluded that the most likely cause was a short in the cable from the PECU to the engine fuel control or stepper motor. In November 2010, the test team successfully concluded the IT program by conducting the fourth and fifth IT flights with production representative hardware (IT-7 and IT-10). IT-7 was a long-range shot, alternate attack profile using the missile's seeker with GPS jamming. The missile flew over 500nm to the target area where it went high order. IT-10 was a max-range, time of flight profile using the seeker. The missile flew over 500nm and destroyed the target with a direct hit and a delayed (10 millisecond) fuze setting. The time of flight objective was also met. The successful completion of these tests concluded the JASSM-ER DT/IT program with 10 of 11 successes overall and completed all planned test objectives prior to MS C.

The JASSM-ER MS C Acquisition Decision Memorandum (ADM) was signed on January 10, 2011 by the Deputy Under Secretary of Defense (AT&L).

## Threshold Breaches

### JASSM Baseline

APB Breaches		
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Schedule

Performance

Cost RDT&E

Procurement

MILCON

Acq O&M

Unit Cost PAUC

APUC

Nunn-McCurdy Breaches		
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#### Current UCR Baseline

PAUC None

APUC None

#### Original UCR Baseline

PAUC None

APUC None

### JASSM-ER

APB Breaches		
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Schedule

Performance

Cost RDT&E

Procurement

MILCON

Acq O&M

Unit Cost PAUC

APUC

Nunn-McCurdy Breaches		
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#### Current UCR Baseline

PAUC None

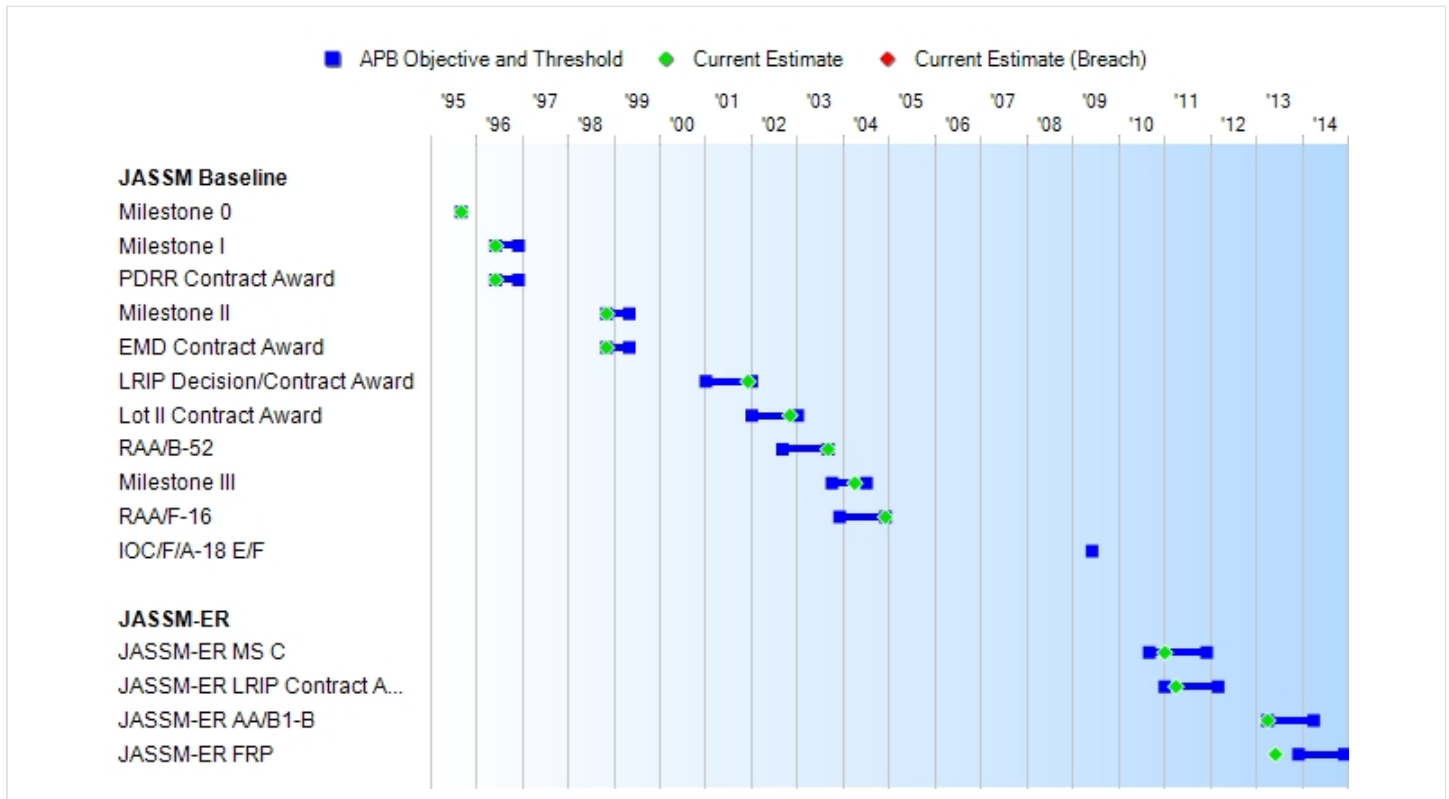
APUC None

#### Original UCR Baseline

PAUC None

APUC None

**Schedule**



JASSM Baseline				
Milestones	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate
Milestone 0	SEP 1995	SEP 1995	SEP 1995	SEP 1995
Milestone I	JUN 1996	JUN 1996	DEC 1996	JUN 1996
PDRR Contract Award	JUN 1996	JUN 1996	DEC 1996	JUN 1996
Milestone II	NOV 1998	NOV 1998	MAY 1999	NOV 1998
EMD Contract Award	NOV 1998	NOV 1998	MAY 1999	NOV 1998
LRIP Decision/Contract Award	JAN 2001	JAN 2001	JAN 2002	DEC 2001
Lot II Contract Award	JAN 2002	JAN 2002	JAN 2003	NOV 2002
RAA/B-52	SEP 2002	SEP 2002	SEP 2003	SEP 2003
Milestone III	OCT 2003	OCT 2003	JUL 2004	APR 2004
RAA/F-16	DEC 2003	DEC 2003	DEC 2004	DEC 2004
IOC/F/A-18 E/F	JUN 2009	N/A	N/A	N/A

**Acronyms And Abbreviations**

EMD - Engineering and Manufacturing Development



IOC - Initial Operational Capability  
 LRIP - Low Rate Initial Production  
 PDRR - Program Definition and Risk Reduction  
 RAA - Required Assets Available

### Change Explanations

None

JASSM-ER				
Milestones	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate
JASSM-ER MS C	JAN 2007	SEP 2010	DEC 2011	JAN 2011
JASSM-ER LRIP Contract Award	JAN 2011	JAN 2011	MAR 2012	APR 2011 (Ch-1)
JASSM-ER AA/B1-B	DEC 2008	APR 2013	APR 2014	APR 2013
JASSM-ER FRP	DEC 2013	DEC 2013	DEC 2014	JUN 2013

### Acronyms And Abbreviations

AA - Assets Available  
 FRP - Full Rate Production  
 LRIP - Low Rate Initial Production  
 MS - Milestone

### Change Explanations

(Ch-1) The LRIP contract award changed from January 2011 to April 2011 due to funding constraints.

### Memo

The January 10, 2011 Acquisition Decision Memorandum (ADM) was signed approving MS C for JASSM-ER increment. Low-Rate Initial Production (LRIP) was approved for 100 to 190 JASSM-ER missiles (4% to 7.6% of JASSM-ER total procurement). The ADM also approved Full Rate Production (FRP) entrance criteria. The JASSM-ER increment will return for a FRP decision in Fiscal Year (FY) 2013.

## Performance

JASSM Baseline					
Characteristics	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Demonstrated Performance	Current Estimate
Missile Mission Effectiveness (MME) (KPP)	One Missile per target	One Missile per target	55 Missiles for 17 target types	TBD	One Missile per target
Carrier Operability (KPP)	Compatible with carrier ops	Compatible with carrier ops	Compatible with carrier ops	TBD	None
Interoperability (KPP)	100% of top-level IER	100% of top-level IER	100% of top-level IER designated critical	TBD	100% of top-level IER

### Requirements Source:

Operational Requirements Document (ORD) CAF 303-95-III dated January 20, 2004.

### Acronyms And Abbreviations

IER - Information Exchange Requirements  
 KPP - Key Performance Parameter  
 MME - Missile Mission Effectiveness  
 TBD - To Be Determined

### Change Explanations

None

JASSM-ER					
Characteristics	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Demonstrated Performance	Current Estimate
Missile Mission Effectiveness (MME) (KPP) (CPD Para 6.1.2)	20 for 17	20 for 17	55 Missiles for 17 target types	TBD	20 for 17
Materiel Availability (KPP) (CPD Para 6.1.5)	.98	.98	.95	TBD	.98
Net-Ready (KPP) (CPD para 6.1.3)	All Ops	All Ops	Joint Critical Ops	TBD	All Ops
Missile Reliability (KSA) (CPD para 6.2.8)	4th Lot.91	4th Lot.91	IOT&E-.80 4th Lot-.85	TBD	4th Lot.91

**Requirements Source:**

Capabilities Production Document (CPD), approved by JROC April 16, 2010.  
JASSM-ER Annex to the JASSM ORD III, approved by JROC January 31, 2005.  
Operational Requirements Document (ORD) CAF 303-95-III dated January 20, 2004.

**Acronyms And Abbreviations**

CPD - Capability Production Document  
IOT&E - Initial Operational Test and Evaluation  
KPP - Key Performance Parameter  
OPS - Operations  
para - paragraph  
TBD - To Be Determined

**Change Explanations**

None

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

**Track To Budget****JASSM Baseline****RDT&E**

APPN 1319	BA 07	PE 0604312N	(Navy)	
	Project 2242	Joint Air-to-Surface Standoff Missile	(Shared)	(Sunk)
APPN 3600	BA 07	PE 0207325F	(Air Force)	
	Project 4515	Joint Air-to-Surface Standoff Missile		(Sunk)
	Project 5356	Joint Air-to-Surface Standoff Missile		(Sunk)

**Procurement**

APPN 3020	BA 02	PE 0207325F	(Air Force)	
	ICN 654515	Joint Air-to-Surface Standoff Missile		

**Track To Budget****JASSM-ER****RDT&E**

APPN 3600	BA 07	PE 0207325F	(Air Force)
	Project 4515	Joint Air-to-Surface Standoff Missile	(Sunk)
	Project 5356	Joint Air-to-Surface Standoff Missile	

**Procurement**

APPN 3020	BA 02	PE 0207325F	(Air Force)
	ICN 654515	Joint Air-to-Surface Standoff Missile	

## Cost and Funding

### Cost Summary - Total Program

#### Total Acquisition Cost and Quantity - Total Program

Appropriation	BY2010 \$M			BY2010 \$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	1405.8	1441.7	--	1441.7	1199.8	1252.6	1252.6
Procurement	3648.7	5869.3	--	5868.7	3756.2	6785.0	6784.9
Flyaway	3510.3	--	--	5690.1	3617.5	--	6587.3
Recurring	3510.3	--	--	5690.1	3617.5	--	6587.3
Non Recurring	0.0	--	--	0.0	0.0	--	0.0
Support	138.4	--	--	178.6	138.7	--	197.6
Other Support	138.4	--	--	178.6	138.7	--	197.6
Initial Spares	0.0	--	--	0.0	0.0	--	0.0
MILCON	31.0	0.0	--	0.0	25.1	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	5085.5	7311.0	N/A	7310.4	4981.1	8037.6	8037.5

## Cost and Funding

### Cost Summary - JASSM Baseline

#### Total Acquisition Cost and Quantity - JASSM Baseline

Appropriation	BY2010 \$M			BY2010 \$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	1246.7	1176.2	1293.8	1176.2	1053.2	985.6	985.6
Procurement	1612.8	2503.2	2753.5	2503.0	1601.4	2664.7	2664.4
Flyaway	1537.1	--	--	2403.2	1529.6	--	2563.4
Recurring	1537.1	--	--	2403.2	1529.6	--	2563.4
Non Recurring	0.0	--	--	0.0	0.0	--	0.0
Support	75.7	--	--	99.8	71.8	--	101.0
Other Support	75.7	--	--	99.8	71.8	--	101.0
Initial Spares	0.0	--	--	0.0	0.0	--	0.0
MILCON	31.0	0.0	--	0.0	25.1	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	2890.5	3679.4	N/A	3679.2	2679.7	3650.3	3650.0

Like all Cost Assessment and Program Evaluation (CAPE) life-cycle cost estimates, the JASSM-ER Independent Cost Estimate is not consistent with the 80% confidence level specified in the Weapon Systems Acquisition Reform Act of 2009. The estimate is, like all previous CAPE life-cycle cost estimates, built upon a product-oriented work breakdown structure, based on historical actual cost information to the maximum extent possible, and, most importantly, based on conservative assumptions that are consistent with actual demonstrated contractor and government performance for a series of acquisition programs in which the Department has been successful.

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	87	87	87
Procurement	2853	2400	2400
Total	2940	2487	2487

**Cost Summary - JASSM-ER****Total Acquisition Cost and Quantity - JASSM-ER**

Appropriation	BY2010 \$M			BY2010 \$M	TY \$M		
	SAR Baseline Prod Est	Current APB Production Objective/Threshold	Current Estimate	Current Estimate	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDT&E	159.1	265.5	292.1	265.5	146.6	267.0	267.0
Procurement	2035.9	3366.1	3702.7	3365.7	2154.8	4120.3	4120.5
Flyaway	1973.2	--	--	3286.9	2087.9	--	4023.9
Recurring	1973.2	--	--	3286.9	2087.9	--	4023.9
Non Recurring	0.0	--	--	0.0	0.0	--	0.0
Support	62.7	--	--	78.8	66.9	--	96.6
Other Support	62.7	--	--	78.8	66.9	--	96.6
Initial Spares	0.0	--	--	0.0	0.0	--	0.0
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	2195.0	3631.6	N/A	3631.2	2301.4	4387.3	4387.5

Like all Cost Assessment and Program Evaluation (CAPE) life-cycle cost estimates, the JASSM-ER Independent Cost Estimate is not consistent with the 80% confidence level specified in the Weapon Systems Acquisition Reform Act of 2009. The estimate is, like all previous CAPE life-cycle cost estimates, built upon a product-oriented work breakdown structure, based on historical actual cost information to the maximum extent possible, and, most importantly, based on conservative assumptions that are consistent with actual demonstrated contractor and government performance for a series of acquisition programs in which the Department has been successful.

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	7	31	31
Procurement	2500	2500	2500
Total	2507	2531	2531



## Cost and Funding

### Funding Summary - Total Program

**Appropriation and Quantity Summary - Total Program**  
**FY2012 President's Budget / December 2010 SAR (TY\$ M)**

<b>Appropriation</b>	<b>Prior</b>	<b>FY2011</b>	<b>FY2012</b>	<b>FY2013</b>	<b>FY2014</b>	<b>FY2015</b>	<b>FY2016</b>	<b>To Complete</b>	<b>Total</b>
RDT&E	1157.9	20.0	5.8	4.0	4.2	4.2	4.2	52.3	1252.6
Procurement	946.6	215.8	236.2	237.3	267.3	316.4	552.1	4013.2	6784.9
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
<b>PB 2012 Total</b>	<b>2104.5</b>	<b>235.8</b>	<b>242.0</b>	<b>241.3</b>	<b>271.5</b>	<b>320.6</b>	<b>556.3</b>	<b>4065.5</b>	<b>8037.5</b>
<b>PB 2011 Total</b>	<b>2112.9</b>	<b>235.8</b>	<b>242.2</b>	<b>245.1</b>	<b>274.8</b>	<b>285.6</b>	<b>426.9</b>	<b>3888.0</b>	<b>7711.3</b>
<b>Delta</b>	<b>-8.4</b>	<b>0.0</b>	<b>-0.2</b>	<b>-3.8</b>	<b>-3.3</b>	<b>35.0</b>	<b>129.4</b>	<b>177.5</b>	<b>326.2</b>

## Cost and Funding

### Funding Summary - JASSM Baseline

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

Appropriation	Prior	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	To Complete	Total
RDT&E	985.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	985.6
Procurement	946.6	147.4	157.6	156.1	141.7	128.5	86.9	899.6	2664.4
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	1932.2	147.4	157.6	156.1	141.7	128.5	86.9	899.6	3650.0
PB 2011 Total	2112.9	235.8	242.2	245.1	274.8	285.6	426.9	3888.0	7711.3
Delta	-180.7	-88.4	-84.6	-89.0	-133.1	-157.1	-340.0	-2988.4	-4061.3

This is the first Selected Acquisition Report (SAR) that separates JASSM Baseline and JASSM-ER into sub-programs.

FY 2011 Presidents Budget (PB): The FY 2009 Selected Acquisition Report (SAR) reported JASSM-Baseline and JASSM-ER as one program. Since this is the first SAR to report JASSM Baseline and JASSM-ER as sub-programs the FY2011 PB funding and quantities shown on this table is the total of both JASSM Baseline and JASSM-ER.

Quantity	Undistributed	Prior	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	To Complete	Total
Development	87	0	0	0	0	0	0	0	0	87
Production	0	1173	141	112	117	103	104	76	574	2400
PB 2012 Total	87	1173	141	112	117	103	104	76	574	2487
PB 2011 Total	118	1153	171	169	175	193	190	280	2569	5018
Delta	-31	20	-30	-57	-58	-90	-86	-204	-1995	-2531

## Funding Summary - JASSM-ER

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

Appropriation	Prior	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	To Complete	Total
RDT&E	172.3	20.0	5.8	4.0	4.2	4.2	4.2	52.3	267.0
Procurement	0.0	68.4	78.6	81.2	125.6	187.9	465.2	3113.6	4120.5
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	172.3	88.4	84.4	85.2	129.8	192.1	469.4	3165.9	4387.5
PB 2011 Total	--	--	--	--	--	--	--	--	0.0
Delta	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4387.5

This is the first Selected Acquisition Report (SAR) that separates JASSM Baseline and JASSM-ER into sub-programs.

FY 2011 Presidents Budget (PB): The FY 2009 Selected Acquisition Report (SAR) reported JASSM-Baseline and JASSM-ER as one program. Since this is the first SAR to report JASSM-ER as a sub-program the FY 2011 PB on this table will show zeros in funding and quantities.

Quantity	Undistributed	Prior	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	To Complete	Total
Development	31	0	0	0	0	0	0	0	0	31
Production	0	0	30	30	40	60	100	250	1990	2500
PB 2012 Total	31	0	30	30	40	60	100	250	1990	2531
PB 2011 Total	0	0	0	0	0	0	0	0	0	0
Delta	31	0	30	30	40	60	100	250	1990	2531

## Cost and Funding

### Annual Funding By Appropriation - JASSM Baseline

#### Annual Funding TY\$ - JASSM Baseline

#### 3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force

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	--	--	--	--	--	--	27.6
1997	--	--	--	--	--	--	160.7
1998	--	--	--	--	--	--	163.8
1999	--	--	--	--	--	--	121.7
2000	--	--	--	--	--	--	154.4
2001	--	--	--	--	--	--	118.6
2002	--	--	--	--	--	--	82.8
2003	--	--	--	--	--	--	35.0
2004	--	--	--	--	--	--	9.8
2005	--	--	--	--	--	--	11.5
2006	--	--	--	--	--	--	22.4
2007	--	--	--	--	--	--	10.5
2008	--	--	--	--	--	--	3.5
2009	--	--	--	--	--	--	8.0
<b>Subtotal</b>	<b>81</b>	--	--	--	--	--	<b>930.3</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 2010 \$M</b>	<b>Non End Item Recurring Flyaway BY 2010 \$M</b>	<b>Non Recurring Flyaway BY 2010 \$M</b>	<b>Total Flyaway BY 2010 \$M</b>	<b>Total Support BY 2010 \$M</b>	<b>Total Program BY 2010 \$M</b>
1996	--	--	--	--	--	--	34.5
1997	--	--	--	--	--	--	198.3
1998	--	--	--	--	--	--	200.8
1999	--	--	--	--	--	--	147.7
2000	--	--	--	--	--	--	184.5
2001	--	--	--	--	--	--	139.8
2002	--	--	--	--	--	--	96.6
2003	--	--	--	--	--	--	40.3
2004	--	--	--	--	--	--	11.0
2005	--	--	--	--	--	--	12.6
2006	--	--	--	--	--	--	23.8
2007	--	--	--	--	--	--	10.9
2008	--	--	--	--	--	--	3.6
2009	--	--	--	--	--	--	8.0
<b>Subtotal</b>	<b>81</b>	--	--	--	--	--	<b>1112.4</b>

**Annual Funding TY\$ - JASSM Baseline****1319 | RDT&E | Research, Development, Test, and Evaluation, 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>
1998	--	--	--	--	--	--	5.3
1999	--	--	--	--	--	--	1.8
2000	--	--	--	--	--	--	3.4
2001	--	--	--	--	--	--	2.0
2002	--	--	--	--	--	--	5.9
2003	--	--	--	--	--	--	16.1
2004	--	--	--	--	--	--	20.8
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>55.3</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 2010 \$M</b>	<b>Non End Item Recurring Flyaway BY 2010 \$M</b>	<b>Non Recurring Flyaway BY 2010 \$M</b>	<b>Total Flyaway BY 2010 \$M</b>	<b>Total Support BY 2010 \$M</b>	<b>Total Program BY 2010 \$M</b>
1998	--	--	--	--	--	--	6.5
1999	--	--	--	--	--	--	2.2
2000	--	--	--	--	--	--	4.1
2001	--	--	--	--	--	--	2.4
2002	--	--	--	--	--	--	6.9
2003	--	--	--	--	--	--	18.5
2004	--	--	--	--	--	--	23.2
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>63.8</b>

**Annual Funding TY\$ - JASSM Baseline**  
**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	--	--	--	--	--	0.2	0.2
2002	76	37.1	--	--	37.1	5.6	42.7
2003	100	39.7	--	--	39.7	12.3	52.0
2004	240	95.5	--	--	95.5	5.4	100.9
2005	288	134.7	--	--	134.7	4.5	139.2
2006	75	93.8	--	--	93.8	4.9	98.7
2007	163	155.9	--	--	155.9	4.8	160.7
2008	111	154.0	--	--	154.0	6.0	160.0
2009	120	123.9	--	--	123.9	15.8	139.7
2010	--	--	52.5	--	52.5	--	52.5
2011	141	144.1	--	--	144.1	3.3	147.4
2012	112	154.3	--	--	154.3	3.3	157.6
2013	117	152.7	--	--	152.7	3.4	156.1
2014	103	138.2	--	--	138.2	3.5	141.7
2015	104	124.9	--	--	124.9	3.6	128.5
2016	76	83.3	--	--	83.3	3.6	86.9
2017	82	107.8	--	--	107.8	3.6	111.4
2018	125	147.7	--	--	147.7	3.7	151.4
2019	125	150.1	--	--	150.1	3.8	153.9
2020	100	152.6	--	--	152.6	3.9	156.5
2021	100	155.2	--	--	155.2	3.8	159.0
2022	42	95.1	--	--	95.1	2.0	97.1
2023	--	--	4.3	--	4.3	--	4.3
2024	--	--	4.4	--	4.4	--	4.4
2025	--	--	4.4	--	4.4	--	4.4
2026	--	--	4.5	--	4.5	--	4.5
2027	--	--	4.6	--	4.6	--	4.6
2028	--	--	4.7	--	4.7	--	4.7
2029	--	--	5.9	--	5.9	--	5.9
2030	--	--	6.0	--	6.0	--	6.0
2031	--	--	6.1	--	6.1	--	6.1
2032	--	--	6.2	--	6.2	--	6.2
2033	--	--	6.3	--	6.3	--	6.3
2034	--	--	6.4	--	6.4	--	6.4
2035	--	--	6.5	--	6.5	--	6.5
<b>Subtotal</b>	<b>2400</b>	<b>2440.6</b>	<b>122.8</b>	<b>--</b>	<b>2563.4</b>	<b>101.0</b>	<b>2664.4</b>



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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 2010 \$M</b>	<b>Non End Item Recurring Flyaway BY 2010 \$M</b>	<b>Non Recurring Flyaway BY 2010 \$M</b>	<b>Total Flyaway BY 2010 \$M</b>	<b>Total Support BY 2010 \$M</b>	<b>Total Program BY 2010 \$M</b>
2001	--	--	--	--	--	0.2	0.2
2002	76	42.7	--	--	42.7	6.4	49.1
2003	100	45.2	--	--	45.2	13.9	59.1
2004	240	106.3	--	--	106.3	6.0	112.3
2005	288	145.8	--	--	145.8	4.8	150.6
2006	75	98.7	--	--	98.7	5.1	103.8
2007	163	160.0	--	--	160.0	5.0	165.0
2008	111	155.4	--	--	155.4	6.0	161.4
2009	120	123.4	--	--	123.4	15.7	139.1
2010	--	--	51.6	--	51.6	--	51.6
2011	141	139.5	--	--	139.5	3.2	142.7
2012	112	147.1	--	--	147.1	3.1	150.2
2013	117	143.1	--	--	143.1	3.2	146.3
2014	103	127.4	--	--	127.4	3.2	130.6
2015	104	113.2	--	--	113.2	3.3	116.5
2016	76	74.2	--	--	74.2	3.2	77.4
2017	82	94.5	--	--	94.5	3.1	97.6
2018	125	127.3	--	--	127.3	3.2	130.5
2019	125	127.2	--	--	127.2	3.2	130.4
2020	100	127.1	--	--	127.1	3.3	130.4
2021	100	127.1	--	--	127.1	3.1	130.2
2022	42	76.6	--	--	76.6	1.6	78.2
2023	--	--	3.4	--	3.4	--	3.4
2024	--	--	3.4	--	3.4	--	3.4
2025	--	--	3.4	--	3.4	--	3.4
2026	--	--	3.4	--	3.4	--	3.4
2027	--	--	3.4	--	3.4	--	3.4
2028	--	--	3.4	--	3.4	--	3.4
2029	--	--	4.2	--	4.2	--	4.2
2030	--	--	4.2	--	4.2	--	4.2
2031	--	--	4.2	--	4.2	--	4.2
2032	--	--	4.2	--	4.2	--	4.2
2033	--	--	4.2	--	4.2	--	4.2
2034	--	--	4.2	--	4.2	--	4.2
2035	--	--	4.2	--	4.2	--	4.2
<b>Subtotal</b>	<b>2400</b>	<b>2301.8</b>	<b>101.4</b>	<b>--</b>	<b>2403.2</b>	<b>99.8</b>	<b>2503.0</b>

## Annual Funding By Appropriation - JASSM-ER

### Annual Funding TY\$ - JASSM-ER

#### 3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force

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
2003	--	--	--	--	--	--	13.6
2004	--	--	--	--	--	--	15.7
2005	--	--	--	--	--	--	31.8
2006	--	--	--	--	--	--	35.2
2007	--	--	--	--	--	--	22.5
2008	--	--	--	--	--	--	8.3
2009	--	--	--	--	--	--	16.7
2010	--	--	--	--	--	--	28.5
2011	--	--	--	--	--	--	20.0
2012	--	--	--	--	--	--	5.8
2013	--	--	--	--	--	--	4.0
2014	--	--	--	--	--	--	4.2
2015	--	--	--	--	--	--	4.2
2016	--	--	--	--	--	--	4.2
2017	--	--	--	--	--	--	5.0
2018	--	--	--	--	--	--	5.0
2019	--	--	--	--	--	--	5.0
2020	--	--	--	--	--	--	5.0
2021	--	--	--	--	--	--	5.0
2022	--	--	--	--	--	--	5.0
2023	--	--	--	--	--	--	5.0
2024	--	--	--	--	--	--	5.0
2025	--	--	--	--	--	--	6.0
2026	--	--	--	--	--	--	6.3
<b>Subtotal</b>	<b>31</b>	--	--	--	--	--	<b>267.0</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 2010 \$M</b>	<b>Non End Item Recurring Flyaway BY 2010 \$M</b>	<b>Non Recurring Flyaway BY 2010 \$M</b>	<b>Total Flyaway BY 2010 \$M</b>	<b>Total Support BY 2010 \$M</b>	<b>Total Program BY 2010 \$M</b>
2003	--	--	--	--	--	--	15.6
2004	--	--	--	--	--	--	17.6
2005	--	--	--	--	--	--	34.8
2006	--	--	--	--	--	--	37.4
2007	--	--	--	--	--	--	23.3
2008	--	--	--	--	--	--	8.4
2009	--	--	--	--	--	--	16.7
2010	--	--	--	--	--	--	28.3
2011	--	--	--	--	--	--	19.6
2012	--	--	--	--	--	--	5.6
2013	--	--	--	--	--	--	3.8
2014	--	--	--	--	--	--	3.9
2015	--	--	--	--	--	--	3.9
2016	--	--	--	--	--	--	3.8
2017	--	--	--	--	--	--	4.4
2018	--	--	--	--	--	--	4.4
2019	--	--	--	--	--	--	4.3
2020	--	--	--	--	--	--	4.2
2021	--	--	--	--	--	--	4.1
2022	--	--	--	--	--	--	4.1
2023	--	--	--	--	--	--	4.0
2024	--	--	--	--	--	--	3.9
2025	--	--	--	--	--	--	4.6
2026	--	--	--	--	--	--	4.8
<b>Subtotal</b>	<b>31</b>	--	--	--	--	--	<b>265.5</b>

## Annual Funding TY\$ - JASSM-ER

## 3020 | Procurement | Missile Procurement, Air Force

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
2011	30	65.1	--	--	65.1	3.3	68.4
2012	30	75.2	--	--	75.2	3.4	78.6
2013	40	77.8	--	--	77.8	3.4	81.2
2014	60	122.1	--	--	122.1	3.5	125.6
2015	100	184.3	--	--	184.3	3.6	187.9
2016	250	461.6	--	--	461.6	3.6	465.2
2017	100	174.3	--	--	174.3	3.7	178.0
2018	100	159.9	--	--	159.9	3.8	163.7
2019	100	152.1	--	--	152.1	3.8	155.9
2020	100	154.2	--	--	154.2	3.9	158.1
2021	100	156.5	--	--	156.5	3.9	160.4
2022	157	231.7	--	--	231.7	6.0	237.7
2023	225	325.4	--	--	325.4	8.1	333.5
2024	225	330.2	--	--	330.2	8.2	338.4
2025	225	334.9	--	--	334.9	8.4	343.3
2026	225	339.9	--	--	339.9	8.5	348.4
2027	225	345.2	--	--	345.2	8.7	353.9
2028	208	333.5	--	--	333.5	8.8	342.3
<b>Subtotal</b>	<b>2500</b>	<b>4023.9</b>	<b>--</b>	<b>--</b>	<b>4023.9</b>	<b>96.6</b>	<b>4120.5</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 2010 \$M</b>	<b>Non End Item Recurring Flyaway BY 2010 \$M</b>	<b>Non Recurring Flyaway BY 2010 \$M</b>	<b>Total Flyaway BY 2010 \$M</b>	<b>Total Support BY 2010 \$M</b>	<b>Total Program BY 2010 \$M</b>
2011	30	63.0	--	--	63.0	3.2	66.2
2012	30	71.7	--	--	71.7	3.2	74.9
2013	40	72.9	--	--	72.9	3.2	76.1
2014	60	112.5	--	--	112.5	3.3	115.8
2015	100	167.0	--	--	167.0	3.3	170.3
2016	250	411.4	--	--	411.4	3.2	414.6
2017	100	152.7	--	--	152.7	3.3	156.0
2018	100	137.8	--	--	137.8	3.3	141.1
2019	100	128.9	--	--	128.9	3.2	132.1
2020	100	128.5	--	--	128.5	3.2	131.7
2021	100	128.2	--	--	128.2	3.2	131.4
2022	157	186.6	--	--	186.6	4.9	191.5
2023	225	257.7	--	--	257.7	6.4	264.1
2024	225	257.2	--	--	257.2	6.3	263.5
2025	225	256.5	--	--	256.5	6.4	262.9
2026	225	255.9	--	--	255.9	6.4	262.3
2027	225	255.6	--	--	255.6	6.4	262.0
2028	208	242.8	--	--	242.8	6.4	249.2
<b>Subtotal</b>	<b>2500</b>	<b>3286.9</b>	<b>--</b>	<b>--</b>	<b>3286.9</b>	<b>78.8</b>	<b>3365.7</b>

**Low Rate Initial Production****JASSM Baseline**

	<b>Initial LRIP Decision</b>	<b>Current Total LRIP</b>
<b>Approval Date</b>	1/31/2001	12/21/2001
<b>Approved Quantity</b>	176	416
<b>Reference</b>	ADM	N/A
<b>Start Year</b>	2001	2001
<b>End Year</b>	2003	2003

The Defense Acquisition Executive signed the Acquisition Decision Memorandum authorizing entry into LRIP on December 21, 2001. The December 2001 LRIP decision approved the procurement of 76 missiles in Lot 1 and 100 missiles in Lot 2. In the summer of 2003, Congressional language for the FY 2004 budget dictated that the JASSM program remain in LRIP for Lot 3, which added an additional 240 missiles (increasing the total LRIP quantity from 176 to 416).

## Low Rate Initial Production

### JASSM-ER

	Initial LRIP Decision	Current Total LRIP
<b>Approval Date</b>	1/10/2011	1/10/2011
<b>Approved Quantity</b>	100	100
<b>Reference</b>	ADM	ADM
<b>Start Year</b>	2011	2011
<b>End Year</b>	2013	2013

The January 10, 2011 Acquisition Decision Memorandum (ADM) approved Low-Rate Initial Production (LRIP) of 100 to 190 JASSM-ER missiles (4% to 7.6% of JASSM-ER total procurement).

## Foreign Military Sales

### JASSM Baseline

Country	Date of Sale	Quantity	Total Cost \$M	Memo
Australia	1/20/2010		63.7	Quantity information is considered classified by Australia.
Australia	6/26/2008		30.1	Quantity information is considered classified by Australia.

## Foreign Military Sales

### JASSM-ER

None

## **Nuclear Cost**

### **JASSM Baseline**

None.

### **JASSM-ER**

There are no Nuclear Cost data to display.

**Unit Cost****JASSM Baseline****Unit Cost Report**

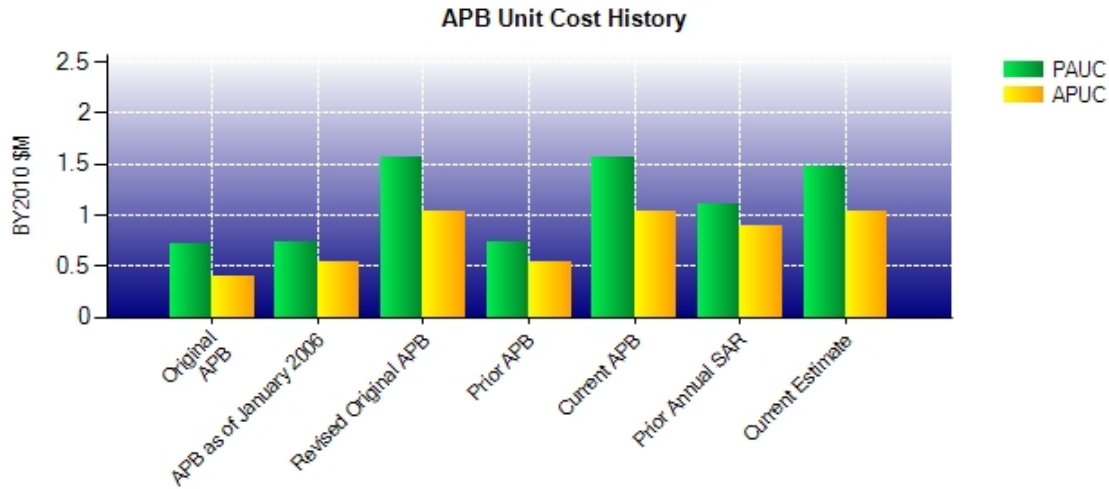
	BY2010 \$M	BY2010 \$M	
Unit Cost	Current UCR Baseline (APR 2011 APB)	Current Estimate (DEC 2010 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	3679.4	3679.2	
Quantity	2487	2487	
Unit Cost	1.479	1.479	0.00
Average Procurement Unit Cost (APUC)			
Cost	2503.2	2503.0	
Quantity	2400	2400	
Unit Cost	1.043	1.043	0.00

	BY2010 \$M	BY2010 \$M	
Unit Cost	Revised Original UCR Baseline (APR 2011 APB)	Current Estimate (DEC 2010 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	3679.4	3679.2	
Quantity	2487	2487	
Unit Cost	1.479	1.479	0.00
Average Procurement Unit Cost (APUC)			
Cost	2503.2	2503.0	
Quantity	2400	2400	
Unit Cost	1.043	1.043	0.00



## JASSM Baseline

### Unit Cost History



	Date	BY2010 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	NOV 1998	0.709	0.400	0.840	0.504
APB as of January 2006	JUL 2004	0.737	0.542	0.914	0.702
Revised Original APB	APR 2011	1.570	1.043	1.559	1.110
Prior APB	JUL 2004	0.737	0.542	0.914	0.702
Current APB	APR 2011	1.570	1.043	1.559	1.110
Prior Annual SAR	DEC 2009	1.100	0.897	1.537	1.316
Current Estimate	DEC 2010	1.479	1.043	1.468	1.110

### SAR Unit Cost History

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

Initial PAUC Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.909	0.009	0.030	0.209	0.072	0.227	0.000	0.012	0.559	1.468

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

Initial APUC Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.561	0.006	-0.038	0.217	0.075	0.277	0.000	0.012	0.549	1.110

## SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone I	JUN 1996	JUN 1996	JUN 1996	JUN 1996
Milestone II	JUN 1998	NOV 1998	NOV 1998	NOV 1998
Milestone III	APR 2001	JUL 2002	OCT 2003	APR 2004
IOC	JUN 2001	SEP 2002	SEP 2002	SEP 2003
Total Cost (TY \$M)	811.3	2073.3	2679.7	3650.0
Total Quantity	44	2469	2940	2487
Prog. Acq. Unit Cost (PAUC)	18.439	0.840	0.911	1.468

Initial Operational Capability (IOC) represents Required Assets Available (RAA) for B-52 declared at Barksdale Air Force Base on September 24, 2003.

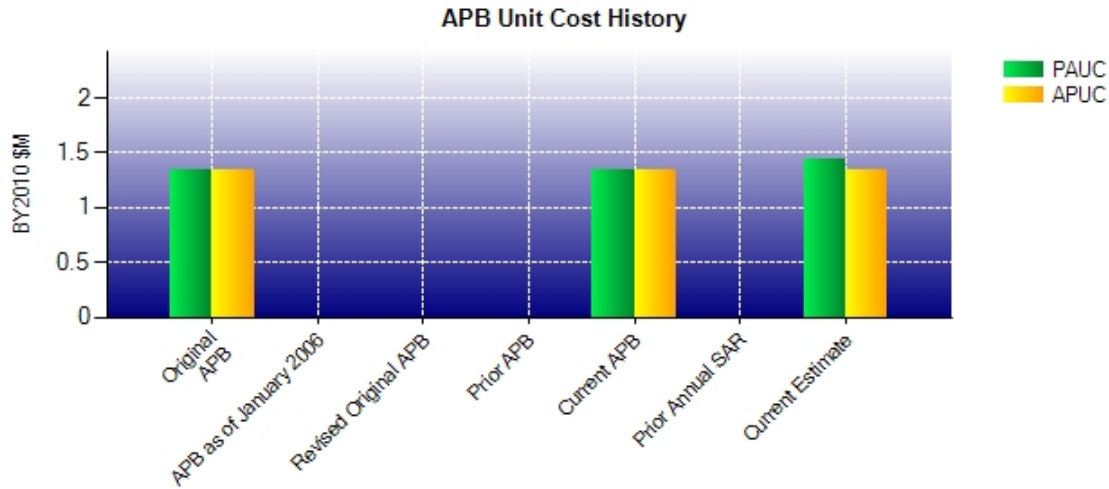
**JASSM-ER****Unit Cost Report**

	BY2010 \$M	BY2010 \$M	
Unit Cost	Current UCR Baseline (APR 2011 APB)	Current Estimate (DEC 2010 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	3631.6	3631.2	
Quantity	2531	2531	
Unit Cost	1.435	1.435	0.00
Average Procurement Unit Cost (APUC)			
Cost	3366.1	3365.7	
Quantity	2500	2500	
Unit Cost	1.346	1.346	0.00

	BY2010 \$M	BY2010 \$M	
Unit Cost	Original UCR Baseline (APR 2011 APB)	Current Estimate (DEC 2010 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	3631.6	3631.2	
Quantity	2531	2531	
Unit Cost	1.435	1.435	0.00
Average Procurement Unit Cost (APUC)			
Cost	3366.1	3365.7	
Quantity	2500	2500	
Unit Cost	1.346	1.346	0.00

**JASSM-ER**

**Unit Cost History**



	Date	BY2010 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
<b>Original APB</b>	APR 2011	1.346	1.346	1.648	1.648
<b>APB as of January 2006</b>	N/A	N/A	N/A	N/A	N/A
<b>Revised Original APB</b>	N/A	N/A	N/A	N/A	N/A
<b>Prior APB</b>	N/A	N/A	N/A	N/A	N/A
<b>Current APB</b>	APR 2011	1.346	1.346	1.648	1.648
<b>Prior Annual SAR</b>	N/A	N/A	N/A	N/A	N/A
<b>Current Estimate</b>	DEC 2010	1.435	1.346	1.734	1.648

**SAR Unit Cost History**

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

Initial PAUC Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.921	0.009	0.014	0.018	0.112	0.652	0.000	0.008	0.813	1.734

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

Initial APUC Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.862	0.008	0.000	0.029	0.108	0.633	0.000	0.008	0.786	1.648

## SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone A	N/A	N/A	N/A	N/A
Milestone B	N/A	N/A	N/A	N/A
Milestone C	N/A	N/A	JAN 2007	JAN 2011
IOC	N/A	N/A	DEC 2008	APR 2013
Total Cost (TY \$M)	N/A	N/A	2301.4	4387.5
Total Quantity	N/A	N/A	2507	2531
Prog. Acq. Unit Cost (PAUC)	N/A	N/A	0.918	1.734

**Cost Variance****JASSM Baseline****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)	1053.2	1601.4	25.1	2679.7
Previous Changes				
Economic	+7.2	+10.2	--	+17.4
Quantity	--	-345.4	--	-345.4
Schedule	--	+494.8	--	+494.8
Engineering	--	+179.4	--	+179.4
Estimating	-74.8	+584.5	-25.1	+484.6
Other	--	--	--	--
Support	--	+36.3	--	+36.3
Subtotal	-67.6	+959.8	-25.1	+867.1
Current Changes				
Economic	+1.0	+4.3	--	+5.3
Quantity	--	--	--	--
Schedule	--	+25.9	--	+25.9
Engineering	--	--	--	--
Estimating	-1.0	+80.5	--	+79.5
Other	--	--	--	--
Support	--	-7.5	--	-7.5
Subtotal	--	+103.2	--	+103.2
Total Changes	-67.6	+1063.0	-25.1	+970.3
CE - Cost Variance	985.6	2664.4	--	3650.0
CE - Cost & Funding	985.6	2664.4	--	3650.0

<b>Summary Base Year 2010 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Prod Est)	1246.7	1612.8	31.0	2890.5
Previous Changes				
Economic	--	--	--	--
Quantity	--	-248.7	--	-248.7
Schedule	--	--	--	--
Engineering	--	+121.8	--	+121.8
Estimating	-69.5	+934.3	-31.0	+833.8
Other	--	--	--	--
Support	--	+32.4	--	+32.4
Subtotal	-69.5	+839.8	-31.0	+739.3
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	-1.0	+58.7	--	+57.7
Other	--	--	--	--
Support	--	-8.3	--	-8.3
Subtotal	-1.0	+50.4	--	+49.4
Total Changes	-70.5	+890.2	-31.0	+788.7
CE - Cost Variance	1176.2	2503.0	--	3679.2
CE - Cost & Funding	1176.2	2503.0	--	3679.2

Previous Estimate: December 2009

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	+1.0
Adjustment for current and prior escalation. (Estimating)	-1.0	-1.0
RDT&E Subtotal	-1.0	0.0

Procurement	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	+4.3
Stretch-out of procurement buy profile, from FY2019 to FY2022. (Schedule)	0.0	+25.9
Adjustment for current and prior escalation. (Estimating)	-1.1	-1.2
Revised estimate due to increased manufacturing and material costs associated with extending the production program three years (FY 2026 to FY 2028). (Estimating)	+10.0	+11.4
Funding allotted to Test Instrument Kits (TIK) to support additional flight testing from FY2023 to FY2035. (Estimating)	+49.8	+70.3
Adjustment for current and prior escalation. (Support)	-0.3	-0.2
Decrease due to increased support requirements for the JASSM-ER. (Support)	-8.0	-7.3
Procurement Subtotal	+50.4	+103.2



**JASSM-ER****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)	146.6	2154.8	--	2301.4
Previous Changes				
Economic	+0.9	+13.7	--	+14.6
Quantity	+64.9	--	--	+64.9
Schedule	-25.8	--	--	-25.8
Engineering	+14.7	+269.2	--	+283.9
Estimating	+74.4	+1456.0	--	+1530.4
Other	--	--	--	--
Support	--	-4.9	--	-4.9
Subtotal	+129.1	+1734.0	--	+1863.1
Current Changes				
Economic	-0.3	+7.4	--	+7.1
Quantity	--	--	--	--
Schedule	--	+72.5	--	+72.5
Engineering	--	--	--	--
Estimating	-8.4	+127.0	--	+118.6
Other	--	--	--	--
Support	--	+24.8	--	+24.8
Subtotal	-8.7	+231.7	--	+223.0
Total Changes	+120.4	+1965.7	--	+2086.1
CE - Cost Variance	267.0	4120.5	--	4387.5
CE - Cost & Funding	267.0	4120.5	--	4387.5

<b>Summary Base Year 2010 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Prod Est)	159.1	2035.9	--	2195.0
Previous Changes				
Economic	--	--	--	--
Quantity	+50.4	--	--	+50.4
Schedule	-7.2	--	--	-7.2
Engineering	+10.8	+182.6	--	+193.4
Estimating	+61.5	+1019.7	--	+1081.2
Other	--	--	--	--
Support	--	-3.4	--	-3.4
<b>Subtotal</b>	<b>+115.5</b>	<b>+1198.9</b>	<b>--</b>	<b>+1314.4</b>
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	-9.1	+111.4	--	+102.3
Other	--	--	--	--
Support	--	+19.5	--	+19.5
<b>Subtotal</b>	<b>-9.1</b>	<b>+130.9</b>	<b>--</b>	<b>+121.8</b>
<b>Total Changes</b>	<b>+106.4</b>	<b>+1329.8</b>	<b>--</b>	<b>+1436.2</b>
CE - Cost Variance	265.5	3365.7	--	3631.2
CE - Cost & Funding	265.5	3365.7	--	3631.2

Previous Estimate: December 2009

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	-0.3
Adjustment for current and prior escalation. (Estimating)	-0.1	-0.1
Below Threshold Reprogramming (BTR) for the Operational Responsive space program and the Weather Service Program. (Estimating)	-9.0	-8.3
RDT&E Subtotal	-9.1	-8.7

Procurement	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	+7.4
Stretch-out of procurement buy profile. Quantities reallocated between FY2015-FY2028. The program also extends from FY2025 to FY2028. (Schedule)	0.0	+72.5
Adjustment for current and prior escalation. (Estimating)	-0.2	-0.2
Revised estimate due to increase in fixed cost allocation for the ER variant. (Estimating)	+111.6	+127.2
Increase in Other Support. (Subtotal)	+19.5	+24.8
Support funding reallocated from JASSM Baseline to JASSM-ER. (Support)	(+8.0)	(+7.3)
Increase in Other Support in FY11-13, FY 26-28 due to increased support requirements as JASSM-ER transitions from JASSM Baseline. (Support)	(+11.5)	(+17.5)
Procurement Subtotal	+130.9	+231.7

## Contracts

### Appropriation: Procurement

Contract Name	<b>JASSM PROD (Lot 6)</b>
Contractor	Lockheed-Martin
Contractor Location	Orlando, FL 32819
Contract Number, Type	FA8682-07-D-0117/1, FFP
Award Date	January 31, 2007
Definitization Date	January 31, 2007

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
128.0	N/A	163	129.9	N/A	163	129.9	129.9

### Cost And Schedule Variance Explanations

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

### Contract Comments

This Contract is over 90% complete and will no longer be reported. The difference between the initial contract price and the current contract price is due to The H-Clause Test instrumentation Kits (TIK) install/recert for test missiles in July 2009/November 2010, Automatic Test Equipment (ATE) missile screening in July 2009, and Lot 6 Inventory Reliability Retrofits in January 2010.

**Appropriation: Procurement**

Contract Name **JASSM PROD (Lot 7)**  
 Contractor Lockheed-Martin  
 Contractor Location Orlando, FL 32819  
 Contract Number, Type FA8682-07-D-0117/2, FPIF  
 Award Date June 13, 2008  
 Definitization Date June 13, 2008

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
92.2	107.1	111	92.2	121.1	111	92.2	92.2

Variance	Cost Variance	Schedule Variance
Cumulative Variances To Date	+1.4	-2.0
Previous Cumulative Variances	+9.1	-2.1
Net Change	-7.7	+0.1

**Cost And Schedule Variance Explanations**

Contract is over 95% complete. Earned value management (EVM) reporting ended in Oct 2010.

The overall VAC is favorable at \$436K. This resulted from a net EAC reduction of \$436K, which is attributed to the following items:

- 1.) Incorporation of forward pricing overhead rates & factors changes through October 2010. The cum EAC reduction due to rate impacts since contract award is \$128K. These rate changes affected all WBSs.
- 2.) Offsetting the rate increase, the CAMs reduced direct labor inputs by approximately 3.5% for the disclosure statement change to move training cost to an indirect expense for an EAC Reduction of approximately \$964K
- 3.) Unfavorable performance resulted in an increase to the EAC of \$656K summarized by function as follows:
  - a. \$209K EAC growth for Technical Operations support overruns
  - b. \$218K EAC reduction for Quality support underruns
  - c. \$523K EAC reduction for Procurement Supplier NRE charges and Procurement Management support underruns.
  - d. \$366K EAC growth for Production Operations for rework on 18 RAP missiles, lower than planned HPU performance and additional program support.
  - e. \$822K EAC growth for Business Management due to the period of performance extension and security cleanup.

The CAMs with unfavorable at complete variances will mitigate the EAC growth by sharing employees with other contracts and programs. Revised Staffing plans for Lot 7 and the JASSM enterprise were prepared and reviewed for the 4Q10 EAC update. CAMs will continue to look for opportunities to help offset any EAC growth.

**Contract Comments**

This Contract is over 90% complete and will no longer be reported. The difference between the initial contract price and the current contract price is due to System Engineering extension to bridge the gap to Lot 8 in June 2009, Transition cost to support the production break in December 2009. Reliability issues such as the Bomb Impact Assessment (BIA) transmitter obsolescence in December 2009, Piston Actuator obsolescence in December 2009, JAGR-S software recovery tool in August 2010, Trimble 6.12 software upgrades in September 2010, and the GPS Dispute-Missile repair TCTO-505 Power interruption in December 2010.

**Appropriation: Procurement**

Contract Name	<b>JASSM Prod (Lot 8)</b>
Contractor	Lockheed Martin
Contractor Location	Orlando, FL 32819
Contract Number, Type	FA8682-10-C-0016, FFP
Award Date	January 20, 2010
Definitization Date	September 30, 2010

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
111.3	N/A	80	111.3	N/A	80	111.3	111.3

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

This is the first time this contract is being reported.

**Appropriation: RDT&E**

Contract Name **JASSM R&D (Lot 8)**  
 Contractor Lockheed-Martin  
 Contractor Location Orlando, FL 32819  
 Contract Number, Type FA8682-10-C-0016/2, FFP  
 Award Date January 20, 2010  
 Definitization Date September 30, 2010

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
39.4	N/A	12	39.4	N/A	12	39.4	39.4

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

This is the first time this contract is being reported.



## Deliveries and Expenditures

### JASSM Baseline

Deliveries To Date	Plan To Date	Actual To Date	Total Quantity	Percent Delivered
Development	87	87	87	100.00%
Production	1053	1053	2400	43.88%
Total Program Quantities Delivered	1140	1140	2487	45.84%

Expenditures and Appropriations (TY \$M)			
Total Acquisition Cost	3650.0	Years Appropriated	16
Expenditures To Date	1805.1	Percent Years Appropriated	40.00%
Percent Expended	49.45%	Appropriated to Date	2079.6
Total Funding Years	40	Percent Appropriated	56.98%

Expenditures as of February 28, 2011.

### JASSM-ER

Deliveries To Date	Plan To Date	Actual To Date	Total Quantity	Percent Delivered
Development	31	19	31	61.29%
Production	0	0	2500	0.00%
Total Program Quantities Delivered	31	19	2531	0.75%

Expenditures and Appropriations (TY \$M)			
Total Acquisition Cost	4387.5	Years Appropriated	9
Expenditures To Date	140.2	Percent Years Appropriated	34.62%
Percent Expended	3.20%	Appropriated to Date	260.7
Total Funding Years	26	Percent Appropriated	5.94%

Expenditures as of February 28, 2011.

## Operating and Support Cost

### JASSM Baseline

#### Assumptions And Ground Rules

The JASSM Operating and Support (O&S) estimate includes requirements for 2400 JASSM Baseline missiles. The sustainment and readiness plan/estimate for JASSM has evolved to one of total Contractor Logistics Support (CLS). Previous classifications of sustainment functions have now been realigned to reflect this logistics strategy. A 15-year warranty is assumed with a 15-year shelf life and the subsequent demilitarization of the weapon. The JASSM program office will function as a logistics center. The latest O&S cost estimate was December 2010.

There is no antecedent system for JASSM.

Cost Element	Costs BY2010 \$M	
	JASSM Baseline Total Program Cost	No Antecedent
Unit-Level Manpower	42.9	--
Unit Operations	0.0	--
Maintenance	20.1	--
Sustaining Support	162.5	--
Continuing System Improvements	162.2	--
Indirect Support	30.7	--
Other	122.6	--
Total Unitized Cost (Base Year 2010 \$)	541.0	--

Total O&S Costs \$M	JASSM Baseline	No Antecedent
Base Year	541.0	--
Then Year	562.2	--

JASSM Baseline and JASSM-ER are wooden rounds, meaning there is no routine maintenance required. Also, because production quantities have varied from lot to lot and assests continue to be expended during testing, an average unit cost is not a good indicator of operating and sustainment cost. For those reasons total O&S costs are reported.

**JASSM-ER****Assumptions And Ground Rules**

The JASSM Operating and Support (O&S) estimate includes requirements for 2500 JASSM-ER missiles. The sustainment and readiness plan/estimate for JASSM has evolved to one of total Contractor Logistics Support (CLS). Previous classifications of sustainment functions have now been realigned to reflect this logistics strategy. A 15-year warranty is assumed with a 15-year shelf life and the subsequent demilitarization of the weapon. The JASSM program office will function as a logistics center. The latest O&S cost estimate was December 2010.

There is no antecedent system for JASSM.

<b>Costs BY2010 \$M</b>		
<b>Cost Element</b>	<b>JASSM-ER Total Program Cost</b>	<b>No Antecedent</b>
Unit-Level Manpower	55.900	--
Unit Operations	0.000	--
Maintenance	121.200	--
Sustaining Support	75.000	--
Continuing System Improvements	226.200	--
Indirect Support	41.000	--
Other	139.200	--
<b>Total Unitized Cost (Base Year 2010 \$)</b>	<b>658.500</b>	<b>--</b>

<b>Total O&amp;S Costs \$M</b>	<b>JASSM-ER</b>	<b>No Antecedent</b>
Base Year	658.5	--
Then Year	862.9	--

JASSM Baseline and JASSM-ER are wooden rounds, meaning there is no routine maintenance required. Also, because production quantities have varied from lot to lot and assests continue to be expended during testing, an average unit cost is not a good indicator of operating and sustainment cost. For those reasons total O&S costs are reported.