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**Unclassified**

JASSM, September 30, 1996

SELECTED ACQUISITION REPORT (RCS: DD-A&T(Q&A)823)  
PROGRAM: JASSM

**CLEARED**  
FOR OPEN PUBLICATION  
(AS AMENDED)

17 OCT 21 1996

AS OF DATE: September 30, 1996

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REGULATE FOR FREEDOM OF INFORMATION  
AND SECURITY REVIEW (OASD-PA)  
DEPARTMENT OF DEFENSE

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1. (U) Designation and Nomenclature (Popular Name): Joint Air-to-Surface Standoff Missile (JASSM)

2. (U) DoD Component: USAF

Joint Participants:  
USAF, USN

3. (U) Responsible Office and Telephone Number:

ASC/YV	GM-15 Terry R. Little
JASSM System Program Office	Assigned: January 2, 1996
102 West D Ave, Suite 300	DSN 872-4785 x3046
Eglin AFB, FL 32542-6807	COMM 904-882-4785 x3046
	EMAIL little@eglin.af.mil

4. (U) Program Elements/Procurement Line Items:

RDT&E:  
(U) PE 0207325F

Classified by: JASSM Security Classification Guide, 1 Feb 96  
Downgrade instructions: E.O. 12958 Section 1.5.(e)  
Declassify on: X3

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96-C-0891

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JASSM, September 30, 1996

5. (U) References:

Planning Baseline (SAR):

(U) Approved Acquisition Program Baseline dated June 13, 1996.

Approved Program (APB):

(U) Approved Acquisition Program Baseline dated Jun 13, 1996.

6. (U) Mission and Description:

(U) The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation missile that will enable Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack both fixed and relocatable targets ranging from non-hardened above ground to hardened shallow buried, point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM does not replace any existing weapon system.

7. (U) Executive Summary:

(U) This is our initial submission; and it includes only the Development Program costs in accordance with 10 USC 2432.

The Joint Air-to-Surface Standoff Missile (JASSM) is an FY96 new start program. It is a joint Air Force/Navy program, but initial funding for FY96 and FY97 is Air Force only. The Navy is programming monies for their unique requirements in FY98 and out.

The Air Force and Navy require a standoff weapon to attack high priority targets. The Joint Requirements Oversight Council (JROC) on August 31, 1995, validated the CAF 303-95 Mission Need Statement (MNS). The Milestone 0 Acquisition Decision Memorandum (ADM) was signed September 20, 1995. The Air Force was assigned as lead service and directed to explore alternative concepts, including modification of existing designs. The threshold platforms for the JASSM were the B-52H and the F-16C/D.

The Commander, Air Combat Command (ACC), and the Deputy Chief of Naval Operations (Resources, Warfare Requirements and Assessments) signed the Operational Requirements Document (ORD), CAF 303-95-I (S), on March 29, 1996. The JASSM program has only three key performance parameters: Missile Mission Effectiveness (MME), range, and carrier operability. All other requirements are tradable to meet cost objectives.

The Single Acquisition Management Plan (SAMP) was initially approved on March 9, 1996, and has been updated with the Milestone I decision. JASSM is incorporating many of the tenets of DoD acquisition reform and is the premier DoD Flagship Program for Cost as an Independent Variable (CAIV).

On June 13, 1996, the Under Secretary of Defense (Acquisition & Technology) (USD(A&T)) signed the Milestone I ADM authorizing entry into Program Definition and Risk Reduction (PDRR) and directing incorporation of the F/A-18E/F as a threshold requirement. Although the weapon will be fully integrated on the B-52H and the F-16C/D during EMD, full integration on the F/A-18E/F will occur after EMD is over.

7. (U) Executive Summary (Cont'd):

The Navy was directed to fund integration and testing on a schedule that preserves the existing Initial Operational Capability (IOC) but ensures carriage on the F/A-18E/F.

JASSM awarded two 24-month PDRR contracts to Lockheed Martin Integrated Systems and McDonnell Douglas Aerospace on June 17, 1996, with options for Engineering and Manufacturing Development (EMD). Through a rolling downselection process, the program office will exercise the option on a single contract for the follow-on EMD phase and production lots 1 and 2 after Milestone II approval.

Hughes Missile Systems protested the award following debrief, with two supplemental protests. Although Hughes successfully obtained a stop work order for ten calendar days, it ended on July 19, 1996, and we have continued to work aggressively with both winning contractors.

The FY97 Appropriations Act reduced the FY97 President's Budget Request by \$30M. The effects of this reduction are being evaluated and will be addressed in the December 1996 Selected Acquisition Report (SAR).

8. (U) Threshold Breaches:

a. (U) Acquisition Program Baseline (APB):

Item	Breach
Schedule	No
Performance	No
Cost -- RDT&E	No
-- Procurement	No
-- MILCON	No
-- O&M	No
-- Average Procurement Unit Cost (APUC)	(Same as APUC, below)

b. (U) Nunn-McCurdy Unit Cost:

Item	Breach
Program Acquisition Unit Cost	No
Average Procurement Unit Cost	No

11a. (U) Total Program Cost and Quantity (Cont'd):

	Planning <u>Estimate (SAR)</u>	Approved <u>Program (APB)</u>	Current <u>Estimate</u>
a. (U) Cost --			
Development (RDT&E)	(78.9)	(78.9)	(71.2)
Procurement	(0.0)	(N/A)	(0.0)
Construction (MILCON)	(0.0)	(N/A)	(0.0)
Acquisition O&M	<u>(0.0)</u>	<u>(0.0)</u>	<u>(0.0)</u>
Total Then Year \$	811.3	811.3	784.2

b. (U) Quantities --

Development (RDT&E)	44	44	44
Procurement	<u>N/A</u>	<u>N/A</u>	<u>0</u>
Total	44	44	44

(U) Note: Development quantity represents the Government-required 44 fully-configured RDT&E units for EMD (9 Initial Operational Test and Evaluation (IOT&E) units and 35 pre-production units). The number of fully-configured RDT&E units for contractor-directed Developmental Test and Evaluation (DT&E) is TBD pending receipt of EMD proposals at Call For Improvements (CFI) (approximately May 1998).

c. (U) Foreign Military Sales --  
None.

d. (U) Nuclear Costs --  
None.

12. (U) Unit Cost Summary:

Not required for Pre-Milestone II programs in accordance with Section 2433, Title 10, USC.

13. (U) Cost Variance Analysis:

a. (U) Summary (Current (Then-Year) Dollars in Millions)

	RDT&E	PROC	MILCON	TOTAL
Planning Estimate	811.3	0.0	0.0	811.3
Previous Changes:				
Economic	-	-	-	-
Quantity	-	-	-	-
Schedule	-	-	-	-
Engineering	-	-	-	-
Estimating	-	-	-	-
Other	-	-	-	-
Support	-	-	-	-
Subtotal	-	-	-	-
Current Changes:				
Economic	-	-	-	-
Quantity	-	-	-	-
Schedule	-	-	-	-
Engineering	-	-	-	-
Estimating	-27.1	-	-	-27.1
Other	-	-	-	-
Support	-	-	-	-
Subtotal	-27.1	-	-	-27.1
Total Changes	-27.1	-	-	-27.1
Current Estimate	784.2	-	-	784.2

(U) (FY 1995 Constant (Base-Year) Dollars in Millions)

	RDT&E	PROC	MILCON	TOTAL
Planning Estimate	732.4	0.0	0.0	732.4
Previous Changes:				
Quantity	-	-	-	-
Schedule	-	-	-	-
Engineering	-	-	-	-
Estimating	-	-	-	-
Other	-	-	-	-
Support	-	-	-	-
Subtotal	-	-	-	-
Current Changes:				
Economic	-	-	-	-
Quantity	-	-	-	-
Schedule	-	-	-	-
Engineering	-	-	-	-
Estimating	-19.4	-	-	-19.4
Other	-	-	-	-
Support	-	-	-	-
Subtotal	-19.4	-	-	-19.4
Total Changes	-19.4	-	-	-19.4
Current Estimate	713.0	-	-	713.0

13b. (U) Cost Variance Analysis (Cont'd):

b. (U) Current Change Explanations --

	(Dollars in Millions)	
	<u>Base-Year</u>	<u>Then-Year</u>
(1) <u>RDT&amp;E</u>		
Reprogramming for early Program Definition and Risk Reduction (PDRR) contract awards. (Estimating)	+3.9	+4.0
Congressionally-directed reductions, pro-rata share (Small Business Innovative Research, Bosnia, etc.). (Estimating)	-1.1	-1.1
Correction of error in calculation of base year dollars. (Estimating)	+6.1	0.0
FY97 Congressional Appropriations Act reduction. (Estimating)	-28.3	-30.0
<b>RDT&amp;E Subtotal</b>	<b>-19.4</b>	<b>-27.1</b>

14. (U) Unit Cost and Other History (Then-Year Dollars in Millions):

a. Not required for Pre-Milestone II programs in accordance with Section 2433, Title 10, USC.

b. Not required for Pre-Milestone II programs in accordance with Section 2433, Title 10, USC.

c. (U) Schedule, Cost, and Quantity History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone I	JUN 96	N/A	N/A	JUN 96
Milestone II	JUN 98	N/A	N/A	JUN 98
Milestone III	APR 01	N/A	N/A	APR 01
IOC/FUE	JUN 01	N/A	N/A	N/A
Total Cost	811.3	N/A	N/A	784.2
Total Quantity	44	N/A	N/A	44
Prog Acq Unit Cost	18.44	0	0	17.82

15. (U) Contract Information (Then-Year Dollars in Millions):

a. RDT&E --  
 (U) JASSM PDRR:  
 Lockheed Martin, Orlando  
 FL 32819-8907  
 F08626-96-C-0002, CPFF  
 Award: June 17, 1996  
 Definitized: June 17, 1996

Current Contract Price			Initial Contract Price	
<u>Target</u>	<u>Ceiling</u>	<u>Qty</u>	<u>Target</u>	<u>Ceiling</u>
\$110.1	N/A	0	\$110.1	N/A

Current Contract Price			Estimated Price At Completion	
<u>Target</u>	<u>Ceiling</u>	<u>Qty</u>	<u>Contractor</u>	<u>Program Manager</u>
\$110.1	N/A	0	\$110.1	\$110.1

	<u>Cost Variance</u>	<u>Schedule Variance</u>
Previous Cumulative Variances	\$0.0	\$0.0
Cumulative Variances To Date	<u>\$</u>	<u>\$</u>
Net Change	\$0.0	\$0.0

Explanation of Change:

(U) This is the first time this contract will be reported in the SAR.

(U) Contract Comments:  
 Delta between initial and current contract price is due to exercise of CLIN 0003 for \$.1M.

(U) JASSM PDRR:  
 McDonnell Douglas Aero, St Louis  
 MO 63166-0516  
 F08626-96-C-0281, CPFF  
 Award: June 17, 1996  
 Definitized: June 17, 1996

Current Contract Price			Initial Contract Price	
<u>Target</u>	<u>Ceiling</u>	<u>Qty</u>	<u>Target</u>	<u>Ceiling</u>
\$126.3	N/A	0	\$126.3	N/A

Current Contract Price			Estimated Price At Completion	
<u>Target</u>	<u>Ceiling</u>	<u>Qty</u>	<u>Contractor</u>	<u>Program Manager</u>
\$126.3	N/A	0	\$126.3	\$126.3

	<u>Cost Variance</u>	<u>Schedule Variance</u>
Previous Cumulative Variances	\$0.0	\$0.0
Cumulative Variances To Date	<u>\$</u>	<u>\$</u>
Net Change	\$0.0	\$0.0

Explanation of Change:

(U) This is the first time this contract will be reported in the SAR.

15b. (U) Contract Information (Cont'd):

- b. Procurement -- None
- c. MILCON -- None
- d. O&M -- None

16. (U) Program Funding Summary (Current Estimate in Millions of Dollars):

a. Appropriation Summary (Then-Year Dollars in Million)

Appropriation	Prior Years	Budget Year (FY96)	Budget Year (FY97)	Balance To Complete (FY98-03)	Total
RDT&E	---	27.6	168.6	588.0	784.2
Procurement	---	---	---	---	---
MILCON	---	---	---	---	---
O&M	---	---	---	---	---
Total	---	27.6	168.6	588.0	784.2

None.

b. Annual Summary --

Appropriation: 1319 Research, Development, Test + Eval, Navy

Fiscal Year	Qty	Flyaway FY95 Dollars Nonrec	Flyaway FY95 Dollars Rec	Total Program Base-Year \$	Total Program Then-Year \$
1998				8.9	9.7
1999				16.1	17.8
2000				15.0	17.0
2001				6.3	7.3
2002				5.3	6.3
2003				8.1	9.8
Subtotal	0	0.0	0.0	59.7	67.9

Appropriation: 3600 Research, Development, Test + Eval, AF

Fiscal Year	Qty	Flyaway FY95 Dollars Nonrec	Flyaway FY95 Dollars Rec	Total Program Base-Year \$	Total Program Then-Year \$
1996				26.6	27.6
1997				158.9	168.6
1998				193.6	210.0
1999				139.7	154.9

16. (U) Program Funding Summary (Cont'd):

Appropriation: 3600 Research, Development, Test + Eval, AF

Fiscal Year	Qty	Flyaway FY95 Dollars Nonrec	Flyaway FY95 Dollars Rec	Total Program Base-Year \$	Total Program Then-Year \$
2000				68.7	77.8
2001				30.7	35.5
2002				19.8	23.4
2003				15.3	18.5
<b>Subtotal</b>	<b>44</b>	<b>0.0</b>	<b>0.0</b>	<b>653.3</b>	<b>716.3</b>

(U) Expenditures and obligations reflect program office records as of August 14, 1996.

Service	Qty	Flyaway Dollars Nonrec	Flyaway Dollars Rec	Total Program Base-Year \$	Total Program Then-Year \$
Navy	0	0.0	0.0	59.7	67.9
USAF	44	0.0	0.0	653.3	716.3
<b>Grand Total</b>	<b>44</b>	<b>0.0</b>	<b>0.0</b>	<b>713.0</b>	<b>784.2</b>

17. (U) Delivery/Expenditure Information:

a. (U) Deliveries To Date

	Plan	Actual
RDT&E	0	0
Procurement		

(U) Percent Total Program Quantities Delivered: N/A

b. (U) Total Expenditures To Date (In Millions of Dollars): \$ 6.9

(U) Percent Total Program Expended: 0.9%

18. (U) Operating and Support Costs:

Not applicable for Pre-Milestone II programs.

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SELECTED ACQUISITION REPORT (RCS: DD-A&T(Q&A)823)  
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1. (U) Designation and Nomenclature (Popular Name): Joint Air-to-Surface Standoff Missile (JASSM)
  
2. (U) DoD Component: USAF  
  
Joint Participants:  
    USAF, USN
  
3. (U) Responsible Office and Telephone Number:  

ASC/YV	SES Terry R. Little
JASSM System Program Office	Assigned: January 2, 1996
102 West D Ave, Suite 300	DSN 872-4785 x3046
Eglin AFB, FL 32542-6807	COMM 904-882-4785 x3046
	little@eglin.af.mil
  
4. (U) Program Elements/Procurement Line Items:  
RDT&E:  
    (U) PE 0207325F  
    (U) PE 0604312N

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DIRECTORATE FOR FREEDOM OF INFORMATION  
AND SECURITY REVIEW (OASD-PA)  
DEPARTMENT OF DEFENSE

SAF/RAS

97--0084

CONGRESSIONAL

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Declassify on: Not Subject to Automatic Downgrade

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JASSM, December 31, 1996

5. (U) References:

SAR Baseline (Planning Estimate):

(U) Approved Acquisition Program Baseline dated June 13, 1996.

Approved Program:

(U) Approved Acquisition Program Baseline (APB) dated June 13, 1996.

6. (U) Mission and Description:

(U) The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation missile that will enable Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack both fixed and relocatable targets ranging from non-hardened above ground to hardened shallow buried, point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM does not replace any existing weapon system.

7. (U) Executive Summary:

(U) This is an RDT&E-only submission; it includes only the Development Program costs in accordance with 10 USC 2432.

The Joint Air-to-Surface Standoff Missile (JASSM) is an FY96 new start program. It is a joint Air Force/Navy program, but initial funding for FY96 and FY97 is Air Force only. The Navy is programming monies for their unique requirements in FY98 and out.

The Air Force and Navy require a standoff weapon to attack high priority targets. The Joint Requirements Oversight Council (JROC) on August 31, 1995, validated the CAF 303-95 Mission Need Statement (MNS). The Milestone 0 Acquisition Decision Memorandum (ADM) was signed September 20, 1995. The Air Force was assigned as lead service and directed to explore alternative concepts, including modification of existing designs. Threshold platforms for the JASSM were initially only the B-52H and the F-16C/D. The F/A-18E/F was later incorporated as a threshold requirement as well (see discussion below).

The Commander, Air Combat Command (ACC), and the Deputy Chief of Naval Operations (Resources, Warfare Requirements and Assessments) signed the Operational Requirements Document (ORD), CAF 303-95-I (S), on March 29, 1996. The JASSM program has only three key performance parameters: Missile Mission Effectiveness (MME), range, and carrier operability. All other requirements are tradable to meet cost objectives.

The Single Acquisition Management Plan (SAMP) was initially approved on March 9, 1996, and has been updated with the Milestone I decision. JASSM is incorporating many of the tenets of DoD acquisition reform and is the premier DoD Flagship Program for Cost as An Independent Variable (CAIV).

On June 13, 1996, the Under Secretary of Defense (Acquisition & Technology)

JASSM, December 31, 1996

7. (U) Executive Summary (Cont'd):

(USD(A&T)) signed the Milestone I ADM authorizing entry into Program Definition and Risk Reduction (PDRR) and directing incorporation of the F/A-18E/F as a threshold requirement. Although the weapon will be fully integrated on the B-52H and the F-16C/D during Engineering and Manufacturing Development (EMD), full integration on the F/A-18E/F will occur after EMD is over. The Navy was directed to fund integration and testing on a schedule that preserves the existing Initial Operational Capability (IOC) but ensures carriage on the F/A-18E/F.

JASSM awarded two 24-month PDRR contracts to Lockheed Martin Integrated Systems and McDonnell Douglas Aerospace on June 17, 1996, with options for EMD. Through a rolling downselection process, the program office will exercise the option on a single contract for the follow-on EMD phase and production lots 1 and 2 after Milestone II approval.

Hughes Missile Systems protested the award following debrief, with two supplemental protests. Although Hughes successfully obtained a stop work order for ten calendar days, it ended on July 19, 1996, and we have continued to work aggressively with both winning contractors. The Government Accounting Office (GAO) ruled on the protest in favor of the government.

The FY97 Appropriations Act reduced the FY97 President's Budget Request by \$30M. The impact to the program is a six week schedule slip and the requirement for an additional \$25.3M in FY98.

8. (U) Threshold Breaches:

a. (U) Acquisition Program Baseline (APB):

Item	Breach
Schedule	No
Performance	No
Cost -- RDT&E	No
-- Procurement	No
-- MILCON	No
-- O&M	No
-- Average Procurement Unit Cost (APUC)	(Same as APUC, below)

b. (U) Nunn-McCurdy Unit Cost:

Item	Breach
Program Acquisition Unit Cost	No
Average Procurement Unit Cost	No

Unclassified

JASSM, December 31, 1996

9. (U) Schedule:

a. Milestones --

	<u>Planning</u>	<u>Approved</u>	<u>Current</u>	
	<u>Estimate (SAR)</u>	<u>Program (APB)</u>	<u>Estimate</u>	
Milestone 0	SEP 95	SEP 95	SEP 95	
Milestone I	JUN 96	JUN 96	JUN 96	
PDRR Contract Award	JUN 96	JUN 96	JUN 96	
Milestone II	JUN 98	JUN 98	JUL 98	(Ch-1)
EMD Contract Award	JUN 98	JUN 98	JUL 98	(Ch-1)
LRIP Decision/Contract Award	JAN 00	JAN 00	JAN 00	
Lot II Contract Award	APR 01	APR 01	APR 01	
Milestone III	APR 01	APR 01	APR 01	
RAA/B-52	JUN 01	JUN 01	JUN 01	
RAA/F-16	JAN 03	JAN 03	DEC 03	(Ch-2)

(U) PDRR - Program Definition and Risk Reduction

RAA - Required Assets Available

RAA for the B-52 is 45 missiles

RAA for the F-16 is 25 missiles

b. (U) Current Change Explanations --

(Ch-1) Due to the FY97 Appropriations Act reduction of \$30M in FY97, Milestone II and EMD Contract Award have slipped six weeks from Jun 98 to Jul 98. \$25.3M has been added to the FY98 budget to ensure successful completion of PDRR.

(Ch-2) RAA/F-16 has been delayed from Jun 03 to Dec 03 based on the projected availability of the F-16 operational flight program (OFF) software.

10. (U) Performance Characteristics:

11. (U) Total Program Cost and Quantity (Dollars in Millions):

	Planning Estimate (SAR)	Approved Program (APB)	Current Estimate
a. (U) Cost --			
Development (RDT&E)	732.4	732.4	656.8
Procurement	0.0	N/A	
Total Flyaway			(0.0)
Total Other Wpn Sys			(0.0)
Peculiar Support	(0.0)		
Initial Spares	(0.0)		
Construction (MILCON)	0.0	N/A	0.0
Acquisition O&M	0.0	0.0	0.0
Total FY 95 Base-Year \$	<u>732.4</u>	<u>732.4</u>	<u>656.8</u>
Escalation	78.9	78.9	59.9
Development (RDT&E)	(78.9)	(78.9)	(59.9)
Procurement	(0.0)	(N/A)	(0.0)
Construction (MILCON)	(0.0)	(N/A)	(0.0)
Acquisition O&M	(0.0)	(0.0)	(0.0)
Total Then Year \$	<u>811.3</u>	<u>811.3</u>	<u>716.7</u>
b. (U) Quantity --			
Development (RDT&E)	44	44	44
Procurement	N/A	N/A	N/A
Total	<u>44</u>	<u>44</u>	<u>44</u>

(U) Note: Development quantity represents the Government-required 44 fully-configured RDT&E units for EMD (9 Initial Operational Test and Evaluation (IOT&E) units and 35 pre-production units). The number of fully-configured RDT&E units for contractor-directed Developmental Test and Evaluation (DT&E) is TBD pending receipt of EMD proposals at Call For Improvements (CFI) (approximately May 1998).

c. (U) Foreign Military Sales --  
None.

d. (U) Nuclear Costs --  
None.

12. (U) Unit Cost Summary:

Not required for Pre-Milestone II programs in accordance with Section 2433, Title 10, USC.

13. (U) Cost Variance Analysis:

a. (U) Summary (Current (Then-Year) Dollars in Millions)

	RDT&E	PROC	MILCON	TOTAL
Planning Estimate	811.3	-	-	811.3
Previous Changes:				
Economic	-	-	-	-
Quantity	-	-	-	-
Schedule	-	-	-	-
Engineering	-	-	-	-
Estimating	-27.1	-	-	-27.1
Other	-	-	-	-
Support	-	-	-	-
Subtotal	-27.1	-	-	-27.1
Current Changes:				
Economic	-3.3	-	-	-3.3
Quantity	-	-	-	-
Schedule	-	-	-	-
Engineering	-	-	-	-
Estimating	-64.2	-	-	-64.2
Other	-	-	-	-
Support	-	-	-	-
Subtotal	-67.5	-	-	-67.5
Total Changes	-94.6	-	-	-94.6
Current Estimate	716.7	-	-	716.7

13a. (U) Cost Variance Analysis (Cont'd):

(U) Summary (FY 1995 Constant (Base-Year) Dollars in Millions)

	RDT&E	PROC	MILCON	TOTAL
Planning Estimate	732.4	-	-	732.4
Previous Changes:				
Quantity	-	-	-	-
Schedule	-	-	-	-
Engineering	-	-	-	-
Estimating	-19.4	-	-	-19.4
Other	-	-	-	-
Support	-	-	-	-
Subtotal	-19.4	-	-	-19.4
Current Changes:				
Economic	-	-	-	-
Quantity	-	-	-	-
Schedule	-	-	-	-
Engineering	-	-	-	-
Estimating	-56.2	-	-	-56.2
Other	-	-	-	-
Support	-	-	-	-
Subtotal	-56.2	-	-	-56.2
Total Changes	-75.6	-	-	-75.6
Current Estimate	656.8	-	-	656.8

b. (U) Current Change Explanations --

(1) RDT&E	(Dollars in Millions)	
	Base-Year	Then-Year
Revised escalation indices. (Economic)	N/A	-3.7
Economic adjustment for negative program change. (Economic)	N/A	+0.4
Refinement of Navy Estimate (Estimating)	+0.7	+0.9
Adjustment for Current and Prior Inflation. (Estimating)	+0.5	+0.5
Congressionally-directed reductions, pro-rata share (Small Business Innovative Research, etc.) (Estimating)	-7.2	-7.6
Refinement of Air Force estimate due to PDRR/EMD adjustments. (Estimating)	-48.3	-55.9
Additional Inflation Adjustment, Pro-rata Share (Estimating)	-1.9	-2.1
RDT&E Subtotal	-56.2	-67.5

14. (U) Unit Cost and Other History (Then-Year Dollars in Millions):

- a. Not required for Pre-Milestone II programs in accordance with Section 2433, Title 10, USC.
- b. Not required for Pre-Milestone II programs in accordance with Section 2433, Title 10, USC.

c. (U) Schedule, Cost, and Quantity History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone I	JUN 96	N/A	N/A	JUN 96
Milestone II	JUN 98	N/A	N/A	JUL 98
Milestone III	APR 01	N/A	N/A	APR 01
FUE/IOC	JUN 01	N/A	N/A	N/A
Total Cost	811.3	N/A	N/A	716.7
Total Quantity	44	N/A	N/A	44
Prog Acq Unit Cost	18.44	N/A	N/A	16.29

15. (U) Contract Information (Then-Year Dollars in Millions):

a. RDT&E --  
 (U) JASSM PDRR:  
 Lockheed Martin, Orlando, FL  
 F08626-96-C-0002, CPFF  
 Award: June 17, 1996  
 Definitized: June 17, 1996

Initial Contract Price		
Target	Ceiling	Qty
\$110.1	N/A	0

Current Contract Price		
Target	Ceiling	Qty
\$	N/A	0

Estimated Price At Completion	
Contractor	Program Manager
\$	\$

	Cost Variance	Schedule Variance
Previous Cumulative Variances	\$	\$
Cumulative Variances To Date	\$	\$
Net Change	\$	\$

Explanation of Change:

None.

(U) Contract Comments:

Due to the competitive nature of this contract, Current Contract Price, Estimated Price at Completion, and Cost and Schedule Variance data are Source Selection Sensitive.

JASSM, December 31, 1996

15. (U) Contract Information (Cont'd):

(U) JASSM PDRR:			Initial Contract Price		
McDonnell Douglas Aero, St. Louis MO	<u>Target</u>	<u>Ceiling</u>	<u>Qty</u>		
F08626-96-C-0281, CPFF	\$126.3	N/A	0		
Award: June 17, 1996					
Definitized: June 17, 1996					
Current Contract Price			Estimated Price At Completion		
<u>Target</u>	<u>Ceiling</u>	<u>Qty</u>	<u>Contractor</u>	<u>Program Manager</u>	
\$	N/A	0	\$	\$	
Previous Cumulative Variances			<u>Cost Variance</u>	<u>Schedule Variance</u>	
Cumulative Variances To Date			\$	\$	
Net Change			\$	\$	

Explanation of Change:

None.

(U) Contract Comments:

Due to the competitive nature of this contract, Current Contract Price, Estimated Price at Completion, and Cost and Schedule Variance data are Source Selection Sensitive.

16. (U) Program Funding Summary (Current Estimate in Millions of Dollars):

a. Appropriation Summary (Then-Year Dollars in Millions)

<u>Appropriation</u>	<u>Prior Years</u> (FY96-97)	<u>Budget Year</u> (FY98)	<u>Budget Year</u> (FY99)	<u>Balance To Complete</u> (FY00-03)	<u>Total</u>
RDT&E	188.6	212.9	153.2	162.0	716.7
Procurement	-	-	-	-	-
MILCON	-	-	-	-	-
O&M	-	-	-	-	-
Total	188.6	212.9	153.2	162.0	716.7

16b. (U) Program Funding Summary (Cont'd):

b. Annual Summary -- JASSM

Appropriation: 1319 Research, Development, Test + Eval, Navy

Fiscal Year	Qty	Flyaway FY95 Dollars Nonrec	Flyaway FY95 Dollars Rec	Total Program Base-Year \$	Total Program Then-Year \$
1998				8.9	9.6
1999				16.0	17.7
2000				14.9	16.8
2001				6.3	7.3
2002				5.4	6.3
2003				8.7	10.5
Subtotal				60.2	68.2

Appropriation: 3600 Research, Development, Test + Eval, AF

Fiscal Year	Qty	Flyaway FY95 Dollars Nonrec	Flyaway FY95 Dollars Rec	Total Program Base-Year \$	Total Program Then-Year \$
1996				26.6	27.6
1997				152.2	161.0
1998				188.2	203.3
1999				122.8	135.5
2000				77.3	87.0
2001				25.2	29.0
2002				4.3	5.1
Subtotal	44			596.6	648.5

Service	Qty	Flyaway Dollars Nonrec	Flyaway Dollars Rec	Total Program Base-Year \$	Total Program Then-Year \$
Navy				60.2	68.2
USAF	44			596.6	648.5
Grand Total	44			656.8	716.7

17. (U) Delivery/Expenditure Information:

a. (U) Deliveries To Date	<u>Plan</u>	<u>Actual</u>
RDT&E	0	0
Procurement	0	0

(U) Percent Total Program Quantities Delivered: 0.0%

b. (U) Total Expenditures To Date (In Millions of Dollars): \$ 38.1

\*\*\* UNCLASSIFIED \*\*\*

JASSM, December 31, 1996

17b. (U) Delivery/Expenditure Information (Cont'd):

(U) Percent Total Program Expended: 5.3%

(U) Expenditures reflect Program Office information as of 3 February 1997.

18. (U) Operating and Support Costs:

Not applicable for Pre-Milestone II programs.

\*\*\* UNCLASSIFIED \*\*\*



# Defense Acquisition Management Information Retrieval (DAMIR)



## Selected Acquisition Report (SAR)

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

### **JASSM**

As of December 31, 1997

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

USAF; USN

## Responsible Office

### Responsible Office

SES Terry R. Little

ASC/YV

JASSM System Program Office

102 West D Ave, Suite 168

Eglin AFB, FL 32542-6807

[little@eglin.af.mil](mailto:little@eglin.af.mil)

**Phone** 904-882-4785 ext. 3046

**Fax** --

**DSN Phone** 872-4785 ext. 3046

**DSN Fax** --

**Date Assigned** January 2, 1996

## References

### SAR Baseline (Planning Estimate)

Approved Acquisition Program Baseline (Planning) dated June 13, 1996. No Approved Acquisition Program Baseline (Development) as this is a transition from Planning to Development submission

### Approved APB

Approved Acquisition Program Baseline (APB) dated June 13, 1996

## Mission and Description

The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation missile that will enable Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack both fixed and relocatable targets ranging from non-hardened above ground to moderately hardened buried point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM does not replace any existing weapon system.

## Executive Summary

This is an RDT&E-only submission; it includes only the Development Program costs in accordance with 10 USC 2432.

The Joint Air-to-Surface Standoff Missile (JASSM) has been an extremely well executed program and continues to reap benefits as a result of acquisition reform, Cost as an Independent Variable (CAIV) initiatives, and competition between two prime contractors. JASSM returned \$152.8M in its Fiscal Year (FY) 1999-2005 budget to the Department of Defense as a result of CAIV initiatives, and made the Average Unit Procurement Price (AUPP) of less than \$400K (Operational Requirements Document (ORD) objective) a reality.

The JASSM Joint Program Office (JPO) restructured the program since the last report to compensate for Congressional budget cuts to the Air Force budget, namely, \$32.3M in the Fiscal Year 1998 (FY98) Appropriations Bill. The Navy received a \$4.1M cut in FY98 as well. The Appropriations language directed a split of the remaining Air Force budget between JASSM (\$128M) and a holding program element (\$43.021M), with the funds releasable to the winner of the JASSM/Standoff Land Attack Missile - Expanded Response Plus (SLAM-ER+) Analysis of Alternatives (AoA).

The Authorizations Conference Report language directed the Secretary of Defense to review the JASSM and SLAM-ER programs and potential acquisition alternatives and report to the Congressional Defense Committees. The Under Secretary of Defense (Acquisition and Technology) (USD(A&T)) signed out a response on January 16, 1998 deferring substantive comment until the AoA is complete. Upon completion, the Secretary of Defense is to comment on the following options:

- 1) Develop JASSM to meet the operational needs of the Navy and the Air Force, with SLAM-ER not procured beyond an interim capability.
- 2) Continue the JASSM program as a joint program for both the Navy and the Air Force, while the Navy continues a separate development of SLAM-ER as currently planned.
- 3) Develop separate programs: SLAM-ER for the Navy and JASSM for the Air Force.
- 4) Develop SLAM-ER as the single program for both the Air Force and the Navy.

The FY98 Congressional budget cut forced an extensive restructure of the program, requiring early down-select to one contractor (planned for April 1998) for the remainder of Program Development and Risk Reduction (PDRR), extension of the PDRR phase, delay of Engineering and Manufacturing Development (EMD) contract award, a schedule slip to several milestone dates (Milestone II, LRIP Decision, Milestone III), as well as a slip to the Required Assets Available (RAA) date for the B-52. The restructure was briefed to the Overarching Integrated Process Team (OIPT) in November 1997, and the USD(A&T) approved the fact-of-life program restructure in December 1997.

Of the \$5.5M FY98 Navy appropriation for JASSM, \$3.0M has been identified by the Navy as the amount required for FY98 carrier operability efforts (one of the three Key Performance Parameters (KPPs) of the program), but only \$1.4M has been released to the JPO. Currently, insufficient funds exist to meet the Milestone II carrier operability exit criteria. A potential breach of the Acquisition Program Baseline (APB) requirements may occur.

Current Navy funding for FY99-05 will support minimal carrier operability efforts and no aircraft integration, although the F/A-18E/F is a threshold aircraft. The Navy was directed by the November 1997 OIPT to address this issue with the Joint Requirements Oversight Council (JROC).

The Air Force has serious concerns regarding a new SLAM-ER+(Air Force (AF)) on the B-1. It appears eight SLAM-ER+(AF)s could fit in a B-1 bomb bay, but only after significant modifications to the weapon and resolution of aircraft power limitations. Three modifications have been known for some time: shorten missile length to 168 inches, modify fins for folded carriage, and modify the fuel system for inverted carriage. A fourth modification involves the necessity of an adapter plate between each rotary launcher station and SLAM-ER+(AF) to provide appropriate clearance of the bay. Limited information on the aircraft electrical power requirements for SLAM-ER+(AF) has recently been provided and is currently being analyzed. However, if SLAM-ER+(AF) has the same power requirement as SLAM-ER+(Navy), only one weapon can be powered up in each of the three bays. A fifteen minute power-up between launches would severely limit operations. In contrast, the B-1 can power all 24 JASSMs simultaneously and could launch them all in just over one minute if desired.

The JPO continues to hold semi-annual meetings with the United Kingdom (UK) to discuss potential commonality or other cooperative opportunities with the UK Conventional Air-to-Surface Standoff Missile (CASOM) program. At this particular time, we are investigating common testing.

The program has progressed at rapid speed. Both contractors have flown captive-carry missions with missile hardware in less than nineteen months. Both contractors and the Government are benefitting from their design trades while still developing a system that exceeds ORD requirements. Particularly noteworthy are demonstration of manufacturing processes and testing achievements helping to validate acceptable risk entering EMD. To date, the following have been successfully accomplished: proximity wind tunnel testing, Radar Cross Section (RCS) testing (produced excellent results with repeatable processes), instrumented measurement vehicle testing on the B-52, F-16 and B-1B, separation testing on the F-16 and sled tests, F-16 Operational Flight Program (OFP) testing (successfully completed), and full loadouts for all threshold and objective aircraft demonstrated through fit checks. The Interface Control Documents (ICDs) for all aircraft have been signed, approved and released.

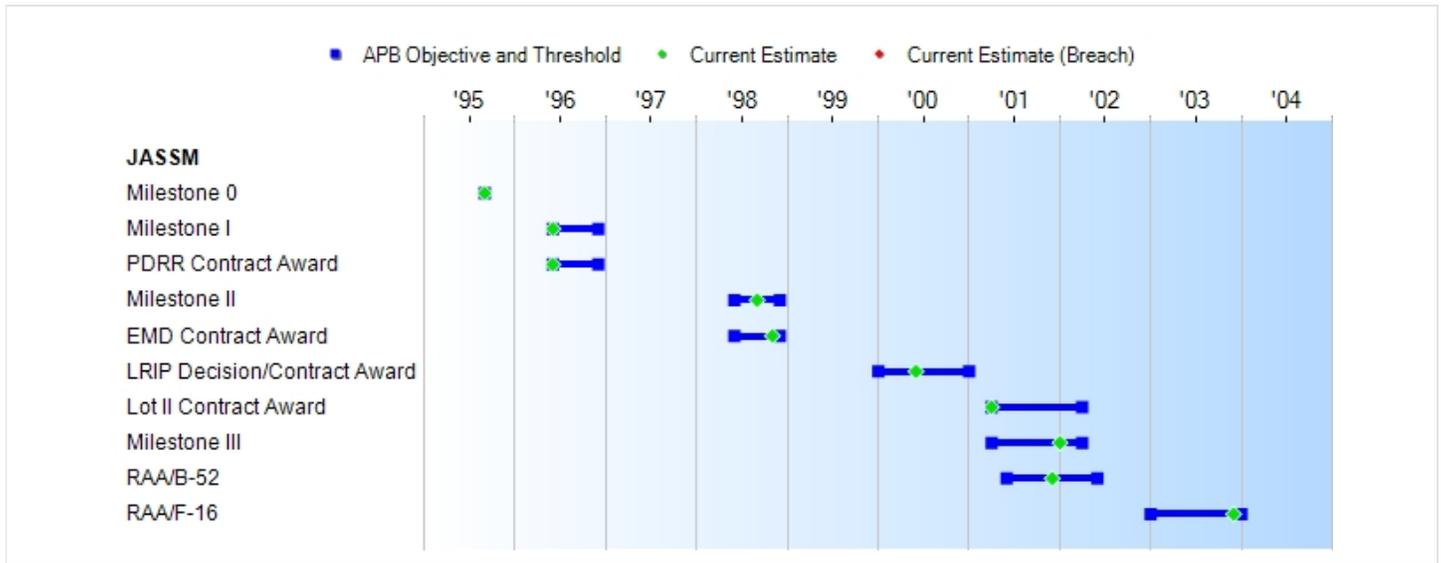
Though performance is important, the key to JASSM's viability as an acquisition reform flagship program is the commitment to unit price far below the \$700K threshold requirement. Evidence of this program's achievements include commitment letters from both contractors promising unit prices less than \$450K.

**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 checked="" 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 Plan Est	Current APB Concept 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	JUN 1998	JUN 1998	DEC 1998	SEP 1998
EMD Contract Award	JUN 1998	JUN 1998	DEC 1998	NOV 1998
LRIP Decision/Contract Award	JAN 2000	JAN 2000	JAN 2001	JUN 2000
Lot II Contract Award	APR 2001	APR 2001	APR 2002	APR 2001
Milestone III	APR 2001	APR 2001	APR 2002	JAN 2002
RAA/B-52	JUN 2001	JUN 2001	JUN 2002	DEC 2001
RAA/F-16	JAN 2003	JAN 2003	JAN 2004	DEC 2003

### Change Explanations

None

### Memo

PDRR - Program Definition and Risk Reduction  
 RAA - Required Assets Available  
 RAA for the B-52 is 45 missiles  
 RAA for the F-16 is 25 missiles

## **Performance**

Note: Classified and unclassified performance parameters are displayed in the Classified DAMIR.

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

APPN 3600	PE 0207325F	(Air Force)
	Joint Air-to-Surface Standoff Missile	
APPN 1319	PE 0604312N	(Navy)
	Joint Air-to-Surface Standoff Missile	
APPN 3600	PE 0604611F	(Air Force)
	JSLAM	

## Cost and Funding

### Cost Summary

#### Total Acquisition Cost and Quantity

Appropriation	BY1995 \$M			TY \$M			
	SAR Baseline Plan Est	Current APB Concept Objective/Threshold	Current Estimate	SAR Baseline Plan Est	Current APB Concept Objective	Current Estimate	
RDT&E	732.4	732.4	842.3	560.0	811.3	811.3	602.2
Procurement	0.0	--	--	--	2198.3	--	--
Flyaway	0.0	--	--	--	--	--	--
Recurring	0.0	--	--	--	--	--	--
Non Recurring	0.0	--	--	--	--	--	--
Support	0.0	--	--	--	--	--	--
Other Support	0.0	--	--	--	--	--	--
Initial Spares	0.0	--	--	--	--	--	--
MILCON	0.0	--	--	--	25.1	--	--
Acq O&M	--	--	--	--	--	--	--
<b>Total</b>	<b>732.4</b>	<b>732.4</b>	<b>842.3</b>	<b>560.0</b>	<b>3034.7</b>	<b>811.3</b>	<b>602.2</b>

NOTE: The Current Estimate for RDT&E reflects funding as approved in the FY99 President's Budget, as required for SAR reporting. However, due to the FY98 Appropriations Act reductions and subsequent program restructure/EMD schedule extension, and revised cost estimates for operational test support and F-16 integration, additional funds will be needed in FY00-05 to complete the JASSM development program. The JPO is pursuing Zero Base Transfers (ZBTs) of excess Procurement funds resulting from CAIV initiative cost savings to fund the RDT&E shortfall. The Current Estimate also excludes the \$43.021M appropriated in the JSLAM PE (0604611F) that is on withhold pending completion of the AoA.

Quantity	SAR Baseline Plan Est	Current APB Concept	Current Estimate
RDT&E	44	44	52
Procurement	0	--	0
<b>Total</b>	<b>44</b>	<b>44</b>	<b>52</b>

NOTE: The Development quantity represents the Government-required 52 fully-configured RDT&E units for EMD (12 Initial Operational Test and Evaluation (IOT&E) units and 40 pre-production units (PPOUs)). This is an increase of 3 IOT&E units from the initial planning estimate of 9, and the addition of 5 PPOUs for recently identified government special test activities.

## Funding Summary

### Appropriation and Quantity Summary

#### FY1999 President's Budget / December 1997 SAR (TY\$ M)

Appropriation	Prior	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	To Complete	Total
RDT&E	188.3	127.3	135.0	106.5	36.2	6.9	2.0	0.0	602.2
Procurement	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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
PB1999 Total	188.3	127.3	135.0	106.5	36.2	6.9	2.0	0.0	602.2
	--	--	--	--	--	--	--	--	--

Quantity	Prior	FY1998	FY1999	FY2000	FY2001	FY2002	FY2003	To Complete	Total
Development	0	0	0	0	0	0	0	0	52
Production	0	0	0	0	0	0	0	0	0
PB1999 Total	0	0	0	0	0	0	0	0	52

### Annual Funding By Appropriation

**Annual Funding TY\$**

1319 | RDT&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
1998	--	--	--	--	--	--	3.8
1999	--	--	--	--	--	--	2.1
2000	--	--	--	--	--	--	2.1
2001	--	--	--	--	--	--	2.1
2002	--	--	--	--	--	--	2.0
2003	--	--	--	--	--	--	2.0
<b>Subtotal</b>	--	--	--	--	--	--	<b>14.1</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1998	--	--	--	--	--	--	3.6
1999	--	--	--	--	--	--	1.9
2000	--	--	--	--	--	--	1.9
2001	--	--	--	--	--	--	1.9
2002	--	--	--	--	--	--	1.8
2003	--	--	--	--	--	--	1.7
<b>Subtotal</b>	--	--	--	--	--	--	<b>12.8</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	--	--	--	--	--	--	27.6
1997	--	--	--	--	--	--	160.7
1998	--	--	--	--	--	--	123.5
1999	--	--	--	--	--	--	132.9
2000	--	--	--	--	--	--	104.4
2001	--	--	--	--	--	--	34.1
2002	--	--	--	--	--	--	4.9
<b>Subtotal</b>	<b>52</b>	--	--	--	--	--	<b>588.1</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1996	--	--	--	--	--	--	26.7
1997	--	--	--	--	--	--	152.8
1998	--	--	--	--	--	--	115.7
1999	--	--	--	--	--	--	122.6
2000	--	--	--	--	--	--	94.7
2001	--	--	--	--	--	--	30.4
2002	--	--	--	--	--	--	4.3
<b>Subtotal</b>	<b>52</b>	--	--	--	--	--	<b>547.2</b>

**Low Rate Initial Production**

None

**Foreign Military Sales**

None.

**Nuclear Cost**

None.

**Unit Cost**

**Unit Cost Report**

Not required for Pre-Milestone B programs in accordance with Section 2433, Title 10, USC.

## Unit Cost History

Not required for Pre-Milestone B programs in accordance with Section 2433, Title 10, USC.

### SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Total Cost (TY \$M)	811.3	N/A	N/A	602.2
Total Quantity	44	N/A	N/A	52
Prog. Acq. Unit Cost (PAUC)	18.439	N/A	N/A	11.581

**Cost Variance**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Plan Est)	811.3	2198.3	25.1	3034.7
Previous Changes				
Economic	-3.3	--	--	-3.3
Quantity	0.0	--	--	0.0
Schedule	0.0	--	--	0.0
Engineering	0.0	--	--	0.0
Estimating	-91.3	--	--	-91.3
Other	0.0	--	--	0.0
Support	0.0	--	--	0.0
Subtotal	-94.6	--	--	-94.6
Current Changes				
Economic	-5.6	--	--	-5.6
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	-56.3	--	--	-56.3
Estimating	-52.6	--	--	-52.6
Other	--	--	--	--
Support	--	--	--	--
Subtotal	-114.5	--	--	-114.5
Total Changes	-209.1	--	--	-209.1
CE - Cost Variance	602.2	2198.3	25.1	2825.6
CE - Cost & Funding	602.2	--	--	602.2

<b>Summary Base Year 1995 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Plan Est)	732.4	0.0	0.0	732.4
Previous Changes				
Economic	0.0	--	--	0.0
Quantity	0.0	--	--	0.0
Schedule	0.0	--	--	0.0
Engineering	0.0	--	--	0.0
Estimating	-75.6	--	--	-75.6
Other	0.0	--	--	0.0
Support	0.0	--	--	0.0
Subtotal	-75.6	--	--	-75.6
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	-47.4	--	--	-47.4
Estimating	-49.4	--	--	-49.4
Other	--	--	--	--
Support	--	--	--	--
Subtotal	-96.8	--	--	-96.8
Total Changes	-172.4	--	--	-172.4
CE - Cost Variance	560.0	--	--	560.0
CE - Cost & Funding	560.0	--	--	560.0

Previous Estimate:

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	-10.0
Economic adjustment for negative program change. (Economic)	N/A	+4.4
Navy deletion of funding for F/A-18E/F integration (Engineering)	-47.4	-56.3
Adjustment for Current and Prior Inflation (Estimating)	+3.4	+3.6
Budget reduction for Nonpay Inflation (Estimating)	-6.1	-6.9
Air Force FY97 Omnibus Reprogramming (Estimating)	-0.3	-0.3
Congressionally-directed reductions, pro-rata share (Small Business Innovative Research, etc.) (Estimating)	-4.3	-4.5
Congressional budget cut and associated program restructure (Estimating)	-42.1	-44.5
RDT&E Subtotal	-96.8	-114.5

**Contracts**

<b>Appropriation: RDT&amp;E</b>	
Contract Name	<b>JASSM PDRR</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819-8907
Contract Number, Type	F08626-96-C-0002, CPFF
Award Date	June 17, 1996
Definitization Date	June 17, 1996

<b>Initial Contract Price (\$M)</b>			<b>Current Contract Price (\$M)</b>			<b>Estimated Price At Completion (\$M)</b>	
<b>Target</b>	<b>Ceiling</b>	<b>Qty</b>	<b>Target</b>	<b>Ceiling</b>	<b>Qty</b>	<b>Contractor</b>	<b>Program Manager</b>
110.1	N/A	0	N/A	N/A	0		

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

Due to the competitive nature of this contract, Current Contract Price, Estimated Price at Completion, and Cost and Schedule Variance data are Source Selection Sensitive.

**Appropriation: RDT&E**

Contract Name **JASSM PDRR**  
 Contractor McDonnell Douglas Corp.  
 Contractor Location St. Louis , MO 63166-0516  
 Contract Number, Type F08626-96-C-0281, CPFF  
 Award Date June 17, 1996  
 Definitization Date June 17, 1996

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
126.3	N/A	0	N/A	N/A	0		

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

Due to the competitive nature of this contract, Current Contract Price, Estimated Price at Completion, and Cost and Schedule Variance data are Source Selection Sensitive.

This contractor's legal name for the PDRR effort is now McDonnell Douglas Corporation, a Wholly-Owned Subsidiary of the Boeing Company. Future contracts will be signed by the Boeing Company.

**Deliveries and Expenditures**

<b>Deliveries To Date</b>	<b>Plan</b>	<b>Actual</b>	<b>Total Quantity</b>	<b>Percent Delivered</b>
Development	0	0	52	0.00%
Production	0	0	0	--
<b>Total Program Quantities Delivered</b>	<b>0</b>	<b>0</b>	<b>52</b>	<b>0.00%</b>

**Expenditures and Appropriations (TY \$M)**

Total Acquisition Cost	602.2	Years Appropriated	3
Expenditures To Date	199.4	Percent Years Appropriated	37.50%
Percent Expended	33.11%	Appropriated to Date	315.6
Total Funding Years	8	Percent Appropriated	52.41%

## **Operating and Support Cost**

None



# Defense Acquisition Management Information Retrieval (DAMIR)



## Selected Acquisition Report (SAR)

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

### **JASSM**

As of December 31, 1998

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

USAF; USN

## Responsible Office

### Responsible Office

SES Terry R. Little

AAC/YV

JASSM System Program Office

102 West D Ave, Suite 300

Eglin AFB, FL 32542-6807

[little@eglin.af.mil](mailto:little@eglin.af.mil)

**Phone** 850-882-4785 ext. 3046

**Fax** --

**DSN Phone** 872-4785 ext. 3046

**DSN Fax** --

**Date Assigned** January 2, 1996

## References

### SAR Baseline (Planning Estimate)

Approved Acquisition Program Baseline (Planning) dated June 13, 1996. No Approved Acquisition Program Baseline (Development) as this is a transition from Planning to Development submission

### Approved APB

DAE Approved Acquisition Program Baseline (APB) dated November 9, 1998

## Mission and Description

The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation air-to-surface missile that will enable Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack both fixed and relocatable targets ranging from non-hardened above ground to moderately hardened buried point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM does not replace any existing weapon system.

## Executive Summary

This is a transition SAR from Planning to Development which includes RDT&E and Production. It is the initial Production submission. The previous submission was RDT&E-only in accordance with 10 USC 2432.

The JASSM program has a central theme: to get the best value for the Government by meeting the users' requirements at an affordable cost and on schedule. The Defense Acquisition Executive (DAE) designated JASSM as a flagship program to demonstrate Cost as an Independent Variable (CAIV). The CAIV concept calls for continuous cost/performance trades throughout the program life cycle in order to strike a balance between performance and affordability.

JASSM downselected to one contractor in April 1998 concurrent with the completion of the Analysis of Alternatives (AoA). JASSM was the clear winner in the AoA. The SECDEF certified the requirement for JASSM to Congress on 9 April, 1998. DoD then released the remainder of the FY98 JASSM/JSLAM funds and the Air Force awarded Lockheed Martin the contract. The contract was for the remainder of Program Definition and Risk Reduction (PDRR) with priced options for Engineering and Manufacturing Development (EMD) and Production Lots 1-5.

Lockheed Martin continued to make good progress completing PDRR efforts prior to Milestone II. Lockheed Martin's accomplishments included a series of flying test bed flights to collect seeker data on representative target scenes in varying weather conditions, warhead sled tests to include Insensitive Munition (IM) testing, structural proof testing and jettison testing for safe separation. Additionally, Lockheed successfully conducted initial catapult and arrested landing testing on the F/A-18 C/D. Catapult and arrested landing testing was particularly important because of its linkage to the carrier operability Key Performance Parameter. In January 1998, an anomaly occurred during a JASSM jettison test on the F-16. The jettison vehicle exhibited an unexpected nose-up attitude shortly after aircraft separation and began to ascend rather than descend. Additionally, the simulation failed to predict what actually happened. Lockheed conducted engineering analysis, altered the airframe's strake design to produce a more nose down attitude at separation, successfully tested the redesign, and corrected the simulation.

The JASSM missile is Y2K compliant. However, the system was required to integrate its mission planning software on the Air Force's Combat Intelligence System (CIS), which is not Y2K compliant. The follow-on to CIS, the Theater Battle Management Core System (TBMCS), is scheduled to be Y2K compliant. The Air Force identified required funding and the migration plan was approved at Milestone II.

JASSM successfully passed Milestone II on 9 November 1998, with an extended EMD schedule, increased EMD budget, and significant decrease in production funding. Shortly before Milestone II, JASSM's Program Director proposed extending the development schedule by six months, from 34 months to 40 months. Low Rate Initial Production was also moved from June 2000 to January 2001. The reasons for the extension included (1) adding more time for ground and captive flight testing before beginning flight test, (2) allowing more time between flight tests for analyzing data and correcting deficiencies and (3) additional time margin for developing B-52 flight software, migrating mission planning software to the TBMCS and maturing JASSM's production configuration. The Overarching Integrated Product Team (OIPT) supported the change as one that would reduce overall program risk. The Air Force funded the schedule extension using funds made available by slipping production into the next fiscal year. Even with the extension, JASSM's development schedule is still only one half the historical experience for weapons of equivalent complexity, and the JASSM program returned more than \$300 million to the Air Force compared with the FY99 President's Budget. By the second quarter of FY99 the program and Lockheed Martin contract will be restructured to incorporate the Milestone II direction.

JASSM continues to realize the benefits of acquisition reform, CAIV initiatives, and the very competitive FFP options for production Lots 1-5. Lockheed Martin as part of their commercial bid strategy offered relatively flat line prices for the contract baseline quantities for Lots 1-5. Lockheed Martin also provided a price matrix for +/- 20% of contract baseline quantities.

### Threshold Breaches

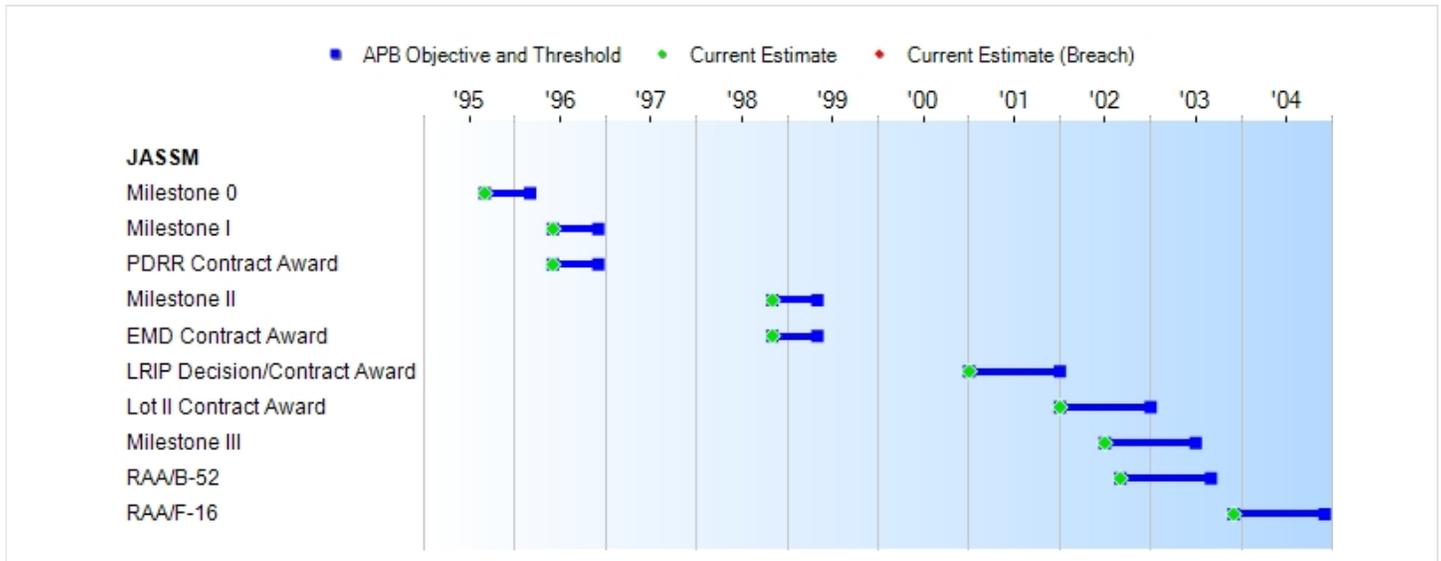
APB Breaches		
--------------	--	--

- Schedule
- Performance
- Cost
  - RDT&E
  - Procurement
  - MILCON
  - Acq O&M
- Unit Cost
  - PAUC
  - APUC

Nunn-McCurdy Breaches		
-----------------------	--	--

- Current UCR Baseline
  - PAUC None
  - APUC None
- Original UCR Baseline
  - PAUC None
  - APUC None

### Schedule



Milestones	SAR Baseline Plan Est	Current APB Development Objective/Threshold		Current Estimate
Milestone 0	SEP 1995	SEP 1995	MAR 1996	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	JUN 1998	NOV 1998	MAY 1999	NOV 1998
EMD Contract Award	JUN 1998	NOV 1998	MAY 1999	NOV 1998
LRIP Decision/Contract Award	JAN 2000	JAN 2001	JAN 2002	JAN 2001
Lot II Contract Award	APR 2001	JAN 2002	JAN 2003	JAN 2002
Milestone III	APR 2001	JUL 2002	JUL 2003	JUL 2002
RAA/B-52	JUN 2001	SEP 2002	SEP 2003	SEP 2002
RAA/F-16	JAN 2003	DEC 2003	DEC 2004	DEC 2003

### Change Explanations

None

### Memo

PDRR - Program Definition and Risk Reduction

RAA - Required Assets Available

RAA for the B-52 is 42 missiles. This is a change from 45 units in the previous SAR and reflects the current ORD.

RAA for the F-16 is 25 missiles

Change Explanations:

The Approved Program represents the Milestone II approved APB.

## **Performance**

Note: Classified and unclassified performance parameters are displayed in the Classified DAMIR.

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

APPN 3600 PE 0207325F (Air Force)  
Joint Air-to-Surface Standoff Missile  
APPN 1319 PE 0604312N (Navy)  
Joint Air-to-Surface Standoff Missile  
APPN 3600 PE 0604611F (Air Force)  
JSLAM

**Procurement**

APPN 3020 (Air Force) ICN 0207325F  
Joint Air-to-Surface Standoff Missile

## Cost and Funding

### Cost Summary

#### Total Acquisition Cost and Quantity

Appropriation	BY1995 \$M				TY \$M		
	SAR Baseline Plan Est	Current APB Development Objective/Threshold	Current Estimate		SAR Baseline Plan Est	Current APB Development Objective	Current Estimate
RDT&E	732.4	771.1	886.8	771.9	811.3	838.6	827.8
Procurement	0.0	--	--	957.1	2198.3	--	1178.3
Flyaway	0.0	--	--	--	--	--	--
Recurring	0.0	--	--	--	--	--	--
Non Recurring	0.0	--	--	0.0	--	--	0.0
Support	0.0	--	--	--	--	--	--
Other Support	0.0	--	--	--	--	--	--
Initial Spares	0.0	--	--	--	--	--	--
MILCON	0.0	--	--	--	25.1	--	--
Acq O&M	--	--	--	--	--	--	--
<b>Total</b>	<b>732.4</b>	<b>771.1</b>	<b>886.8</b>	<b>1729.0</b>	<b>3034.7</b>	<b>838.6</b>	<b>2006.1</b>

Approved Program (APB) represented the Milestone II APB.

Note: Procurement funding does not include Seek Eagle funding of \$19.3M (\$6.4M in FY01, \$3.4M in FY02, \$3.7M in FY04 and \$2.9M in FY05)

Quantity	SAR Baseline Plan Est	Current APB Development	Current Estimate
RDT&E	44	69	61
Procurement	0	--	2400
<b>Total</b>	<b>44</b>	<b>69</b>	<b>2461</b>

NOTE: The Development quantity represents the 61 fully-configured RDT&E units for EMD (10 Contractor Development Test and Evaluation (CDT&E) units, 9 Initial Operational Test and Evaluation (IOT&E) units and 42 pre-production operational test units (PPOTUs)). This is a Congressionally-directed decrease of 8 PPOTUs from the Milestone II APB.

## Funding Summary

### Appropriation and Quantity Summary

#### FY2000 President's Budget / December 1998 SAR (TY\$ M)

Appropriation	Prior	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total
RDT&E	357.4	130.9	168.4	73.0	55.6	23.1	11.3	8.1	0.0	827.8
Procurement	0.0	0.0	0.0	45.9	49.1	103.7	141.8	149.1	688.7	1178.3
MILCON	0.0	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	0.0
PB2000 Total	357.4	130.9	168.4	118.9	104.7	126.8	153.1	157.2	688.7	2006.1
PB1999 Total	315.6	135.0	106.5	36.2	6.9	2.0	0.0	0.0	0.0	602.2
Delta	41.8	-4.1	61.9	82.7	97.8	124.8	153.1	157.2	688.7	1403.9

Quantity	Prior	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	61
Production	0	0	0	87	91	242	340	346	1294	2400
PB2000 Total	0	0	0	87	91	242	340	346	1294	2461
PB1999 Total	0	0	0	0	0	0	0	0	0	52
Delta	0	0	0	87	91	242	340	346	1294	2409

### Annual Funding By Appropriation

**Annual Funding TY\$**

**1319 | RDT&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
1998	--	--	--	--	--	--	5.3
1999	--	--	--	--	--	--	2.1
2000	--	--	--	--	--	--	2.0
2001	--	--	--	--	--	--	2.0
2002	--	--	--	--	--	--	2.0
2003	--	--	--	--	--	--	2.0
2004	--	--	--	--	--	--	2.1
2005	--	--	--	--	--	--	2.1
<b>Subtotal</b>	--	--	--	--	--	--	<b>19.6</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1998	--	--	--	--	--	--	5.0
1999	--	--	--	--	--	--	2.0
2000	--	--	--	--	--	--	1.8
2001	--	--	--	--	--	--	1.8
2002	--	--	--	--	--	--	1.8
2003	--	--	--	--	--	--	1.8
2004	--	--	--	--	--	--	1.8
2005	--	--	--	--	--	--	1.8
<b>Subtotal</b>	--	--	--	--	--	--	<b>17.8</b>

## Annual Funding TY\$

## 3600 | RDT&amp;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	--	--	--	--	--	--	128.8
2000	--	--	--	--	--	--	166.4
2001	--	--	--	--	--	--	71.0
2002	--	--	--	--	--	--	53.6
2003	--	--	--	--	--	--	21.1
2004	--	--	--	--	--	--	9.2
2005	--	--	--	--	--	--	6.0
<b>Subtotal</b>	<b>61</b>	--	--	--	--	--	<b>808.2</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1996	--	--	--	--	--	--	26.7
1997	--	--	--	--	--	--	153.5
1998	--	--	--	--	--	--	155.4
1999	--	--	--	--	--	--	120.8
2000	--	--	--	--	--	--	153.8
2001	--	--	--	--	--	--	64.5
2002	--	--	--	--	--	--	47.9
2003	--	--	--	--	--	--	18.5
2004	--	--	--	--	--	--	7.9
2005	--	--	--	--	--	--	5.1
<b>Subtotal</b>	<b>61</b>	--	--	--	--	--	<b>754.1</b>

## Annual Funding TY\$

## 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
2001	87	--	--	--	--	--	45.9
2002	91	--	--	--	--	--	49.1
2003	242	--	--	--	--	--	103.7
2004	340	--	--	--	--	--	141.8
2005	346	--	--	--	--	--	149.1
2006	360	--	--	--	--	--	184.9
2007	360	--	--	--	--	--	188.4
2008	360	--	--	--	--	--	191.9
2009	214	--	--	--	--	--	123.5
<b>Subtotal</b>	<b>2400</b>	--	--	--	--	--	<b>1178.3</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
2001	87	--	--	--	--	--	41.0
2002	91	--	--	--	--	--	43.1
2003	242	--	--	--	--	--	89.2
2004	340	--	--	--	--	--	119.5
2005	346	--	--	--	--	--	123.0
2006	360	--	--	--	--	--	149.5
2007	360	--	--	--	--	--	149.2
2008	360	--	--	--	--	--	148.8
2009	214	--	--	--	--	--	93.8
<b>Subtotal</b>	<b>2400</b>	--	--	--	--	--	<b>957.1</b>

Note: Procurement funding does not include Seek Eagle funding of \$19.3M (\$6.4M in FY01, \$3.4M in FY02, \$3.7M in FY04 and \$2.9M in FY05)

**Cost Quantity Information****3020 | Procurement | Missile Procurement, Air Force**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway (Aligned with Quantity) BY 1995 \$M</b>
2001	87	35.3
2002	91	37.3
2003	242	83.3
2004	340	114.3
2005	346	117.8
2006	360	144.6
2007	360	144.4
2008	360	144.0
2009	214	89.0
<b>Subtotal</b>	<b>2400</b>	<b>910.0</b>

**Low Rate Initial Production**

None

**Foreign Military Sales**

None.

**Nuclear Cost**

None.

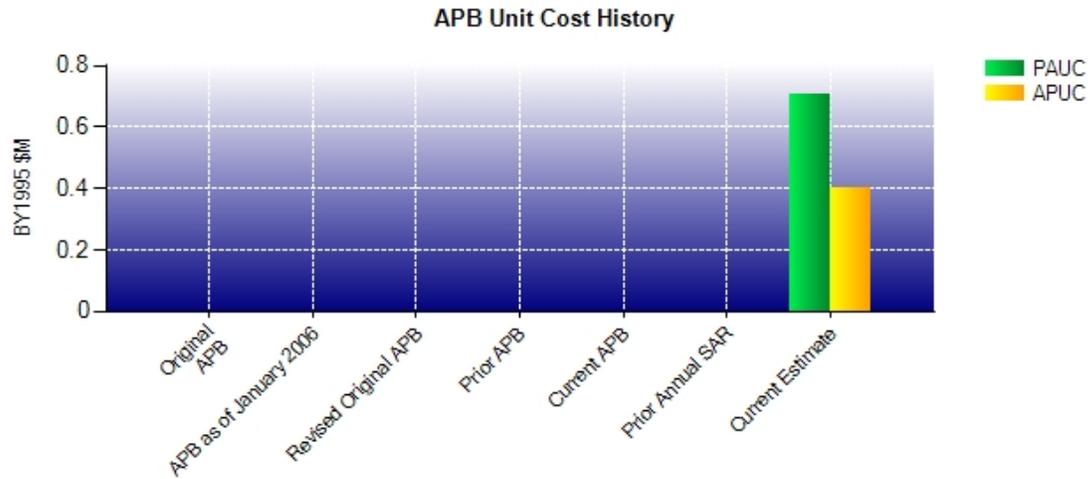
**Unit Cost****Unit Cost Report**

<b>Unit Cost</b>	<b>BY1995 \$M</b>		
	<b>Current UCR Baseline (NOV 1998 APB)</b>	<b>Current Estimate (DEC 1998 SAR)</b>	<b>BY % Change</b>
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost	1749.5	1729.0	
Quantity	2469	2461	
Unit Cost	0.709	0.703	-0.85
<b>Average Procurement Unit Cost (APUC)</b>			
Cost	960.0	957.1	
Quantity	2400	2400	
Unit Cost	0.400	0.399	-0.25

<b>Unit Cost</b>	<b>BY1995 \$M</b>		
	<b>Original UCR Baseline</b>	<b>Current Estimate (DEC 1998 SAR)</b>	<b>BY % Change</b>
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost		1729.0	
Quantity		2461	
Unit Cost		0.703	+0.00
<b>Average Procurement Unit Cost (APUC)</b>			
Cost		957.1	
Quantity		2400	
Unit Cost		0.399	+0.00

This is a transition from Planning to Development submission.

### Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	N/A	N/A	N/A	N/A	N/A
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	N/A	N/A	N/A	N/A	N/A
Current APB	N/A	N/A	N/A	N/A	N/A
Prior Annual SAR	N/A	N/A	N/A	N/A	N/A
Current Estimate	DEC 1998	0.703	0.399	0.815	0.491

### SAR Unit Cost History

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

Initial PAUC Plan Est	Changes									PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total		
18.439	-0.011	-17.616	0.019	-0.023	0.007	0.000	0.000	-17.624	0.815	

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

Initial APUC Plan Est	Changes									APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total		
0.000	-0.004	0.000	0.512	0.000	-0.017	0.000	0.000	0.491	0.491	

**SAR Baseline History**

<b>Item/Event</b>	<b>SAR Planning Estimate (PE)</b>	<b>SAR Development Estimate (DE)</b>	<b>SAR Production Estimate (PdE)</b>	<b>Current Estimate</b>
Total Cost (TY \$M)	811.3	2073.3	N/A	2006.1
Total Quantity	44	2469	N/A	2461
Prog. Acq. Unit Cost (PAUC)	18.439	0.840	N/A	0.815

SAR Planning Estimate is RDT&E only and as a result of Milestone II, the Development Estimate and the Current Estimate include Production.

**Cost Variance**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Plan Est)	811.3	2198.3	25.1	3034.7
Previous Changes				
Economic	-8.9	0.0	0.0	-8.9
Quantity	0.0	0.0	0.0	0.0
Schedule	0.0	0.0	0.0	0.0
Engineering	-56.3	0.0	0.0	-56.3
Estimating	-143.9	0.0	0.0	-143.9
Other	0.0	0.0	0.0	0.0
Support	0.0	0.0	0.0	0.0
Subtotal	-209.1	0.0	0.0	-209.1
Current Changes				
Economic	-7.5	-10.3	--	-17.8
Quantity	+3.6	--	--	+3.6
Schedule	+26.8	+20.8	--	+47.6
Engineering	--	--	--	--
Estimating	+202.7	-41.8	--	+160.9
Other	--	--	--	--
Support	--	--	--	--
Subtotal	+225.6	-31.3	--	+194.3
Adjustments	0.0	+1209.6	0.0	+1209.6
Total Changes	+16.5	+1178.3	0.0	+1194.8
CE - Cost Variance	827.8	3376.6	25.1	4229.5
CE - Cost & Funding	827.8	1178.3	--	2006.1

<b>Summary Base Year 1995 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Plan Est)	732.4	0.0	0.0	732.4
Previous Changes				
Economic	0.0	0.0	0.0	0.0
Quantity	0.0	0.0	0.0	0.0
Schedule	0.0	0.0	0.0	0.0
Engineering	-47.4	0.0	0.0	-47.4
Estimating	-125.0	0.0	0.0	-125.0
Other	0.0	0.0	0.0	0.0
Support	0.0	0.0	0.0	0.0
Subtotal	-172.4	0.0	0.0	-172.4
Current Changes				
Economic	--	--	--	--
Quantity	+3.4	--	--	+3.4
Schedule	+24.0	+14.8	--	+38.8
Engineering	--	--	--	--
Estimating	+184.5	-17.7	--	+166.8
Other	--	--	--	--
Support	--	--	--	--
Subtotal	+211.9	-2.9	--	+209.0
Adjustments	0.0	+960.0	0.0	+960.0
Total Changes	+39.5	+957.1	0.0	+996.6
CE - Cost Variance	771.9	957.1	--	1729.0
CE - Cost & Funding	771.9	957.1	--	1729.0

Previous Estimate: December 1997

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	-7.5
Increase in EMD test assets from 52 to 69 to align with winning contractor's proposal (Quantity) (QR)	+6.2	+6.6
Congressional reduction of 8 test assets (Quantity) (QR)	-2.8	-3.0
Six Month Development Schedule Increase (Schedule)	+24.0	+26.8
Adjustment for Current and Prior Inflation. (Estimating)	+0.1	+0.1
Additional funding for Analysis of Alternatives (AoA) (Estimating)	+1.4	+1.5
Adjustment to Navy Program Office support for carrier suitability (Estimating)	+3.6	+4.2
Adjustment for Current and Prior Inflation. (Estimating)	+4.4	+4.5
Revised Air Force estimate (Estimating)	-9.1	-9.4
Release of Joint Surface Launched Attack Missile (JSLAM) funds to JASSM PE (Estimating)	+38.2	+40.3
Program restructure due to FY98 Congressional budget cut (Estimating)	+53.6	+60.3
Funding alignment with winning contractor proposal (Estimating)	+26.5	+29.0
Additional funding added for risk reduction activities at Milestone II (Estimating)	+65.8	+72.2
RDT&E Subtotal	+211.9	+225.6

(QR) Quantity Related

Procurement	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	-10.3
Revised Air Force estimate. (Estimating)	-17.7	-41.8
Adjustment in Procurement profile due to inflation cuts. (Schedule)	+14.8	+20.8
Procurement Subtotal	-2.9	-31.3

**Contracts**

<b>Appropriation: RDT&amp;E</b>	
Contract Name	<b>JASSM PDRR</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08626-96-C-0002, CPFF
Award Date	June 17, 1996
Definitization Date	June 17, 1996

<b>Initial Contract Price (\$M)</b>			<b>Current Contract Price (\$M)</b>			<b>Estimated Price At Completion (\$M)</b>	
<b>Target</b>	<b>Ceiling</b>	<b>Qty</b>	<b>Target</b>	<b>Ceiling</b>	<b>Qty</b>	<b>Contractor</b>	<b>Program Manager</b>
110.1	N/A	0	153.4	N/A	0	153.4	153.4

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

Contract Price includes PDRR Phase I and II. Cost Reporting was limited to actuals due to implementation of cost cap. This contract is more than 90% complete and will no longer be reported in the SAR.

**Appropriation: RDT&E**

Contract Name **JASSM PDRR**  
 Contractor McDonnell Douglas Corp.  
 Contractor Location St. Louis , MO 63166-0516  
 Contract Number, Type F08626-96-C-0281, CPFF  
 Award Date June 17, 1996  
 Definitization Date June 17, 1996

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
126.3	N/A	0	125.3	N/A	0	125.3	125.3

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

Contract Price includes PDRR Phase I. Cost Reporting was limited to actuals due to implementation of cost cap. This contract is more than 90% complete and will no longer be reported in the SAR.

This contractor's legal name for the PDRR effort is now McDonnell Douglas Corporation, a wholly-owned subsidiary of the Boeing Company.

**Deliveries and Expenditures**

<b>Deliveries To Date</b>	<b>Plan</b>	<b>Actual</b>	<b>Total Quantity</b>	<b>Percent Delivered</b>
Development	0	0	61	0.00%
Production	0	0	2400	0.00%
<b>Total Program Quantities Delivered</b>	<b>0</b>	<b>0</b>	<b>2461</b>	<b>0.00%</b>

**Expenditures and Appropriations (TY \$M)**

Total Acquisition Cost	2006.1	Years Appropriated	4
Expenditures To Date	334.0	Percent Years Appropriated	28.57%
Percent Expended	16.65%	Appropriated to Date	488.3
Total Funding Years	14	Percent Appropriated	24.34%

## Operating and Support Cost

### Assumptions and Ground Rules

Note: This is a transition from Planning to Development submission.

Assumptions: The estimate includes only Air Force requirements. The Navy requirements are not defined. Shelf life is assumed to be 20 years after which the JASSM units will be returned for disposal. JASSM is issued to the Government with a 15 year warranty that covers all failures except acts of God and natural disasters. Included under the warranty are Contractor performed Organizational BIT surveillance testing, Depot level repairs, all repair-induced transportation within CONUS, all systemic defect induced retrofits and software maintenance. WSEP surveillance testing is based on four live firings per year for the life cycle of the weapons. Second destination transportation is based on 65 percent of the weapons remaining in CONUS and 35 percent OCONUS.

#### Costs BY1995 \$M

Cost Element	JASSM Per JASSM	N/A
Mission Pay & Allowance	0.0	--
Unit Level Consumption	1.1	--
Intermediate Maintenance	0.3	--
Depot Maintenance	0.3	--
Contractor Support	0.0	--
Sustaining Support	1.1	--
Indirect	0.1	--
Other	--	--
Total Unitized Cost (Base Year 1995 \$)	2.9	--

Total O&S Costs \$M	JASSM	N/A
Base Year	--	--
Then Year	--	--



# Defense Acquisition Management Information Retrieval (DAMIR)



## Selected Acquisition Report (SAR)

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

### **JASSM**

As of September 30, 1999

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

USAF; USN

## Responsible Office

### Responsible Office

SES Terry R. Little

AAC/YV

JASSM System Program Office

102 West D Ave, Suite 300

Eglin AFB, FL 32542-6807

[little@eglin.af.mil](mailto:little@eglin.af.mil)

**Phone** 850-882-4785 ext. 3046

**Fax** --

**DSN Phone** 872-4785 ext. 3046

**DSN Fax** --

**Date Assigned** January 2, 1996

## References

### SAR Baseline (Development Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated November 9, 1998

### Approved APB

DAE Approved Acquisition Program Baseline (APB) dated November 9, 1998

## Mission and Description

The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation air-to-surface missile that will enable Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack both fixed and relocatable targets ranging from non-hardened above ground to moderately hardened buried point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM does not replace any existing weapon system.

## Executive Summary

This quarterly exception SAR is being submitted to report schedule delays of more than six months. Details are reported in section nine. The cost impact will be reported in the FY 2001 President's Budget.

The JASSM program office is restructuring the master schedule due to delays in development. We will extend Engineering and Manufacturing Development (EMD) by approximately ten months. As a result, the LRIP I contract award will slip from January 2001 to early FY02. There are no anticipated APB breaches. The current assessment shows a minimum of a three-month delay in the first EMD flight test with additional delays likely due to several factors. First, the Teledyne engine development/modification process is progressing at a pace slower than planned due to bearing, digital fuel control, and compressor design issues. Second, several key subcontractors, two of them small businesses, are delivering items late to need due to configuration changes made by Lockheed Martin Skunkworks. Third, two unplanned development test flights are required because of a new air data probe design driven by weight, cost, and nose mold line and pitot port location changes.

It is noteworthy that the JASSM schedule, even with the extension, will still be about one-third shorter than the norm for this type of weapon. JASSM continues to have strong warfighter support from Air Combat Command.

On August 12, 1999, Lockheed released an unpowered JASSM flight test vehicle (FTV-2) from an F-16 test aircraft at White Sands Missile Range. Lockheed repeated the six test objectives of the April 8, 1999 FTV-1 flight. Additionally, they added a seventh objective to collect aerodynamic performance data. Lockheed successfully re-demonstrated F-16 interface with JASSM functions, such as mission data transfer; alignment of the weapon inertial navigation system; and safe separation characteristics. Lockheed successfully demonstrated on FTV-2 the two objectives not met on FTV-1; demonstration of control surface deployment with transition to controlled flight and collection of weapon navigation performance data. Additionally, Lockheed successfully collected aerodynamic performance data in free flight.

### Threshold Breaches

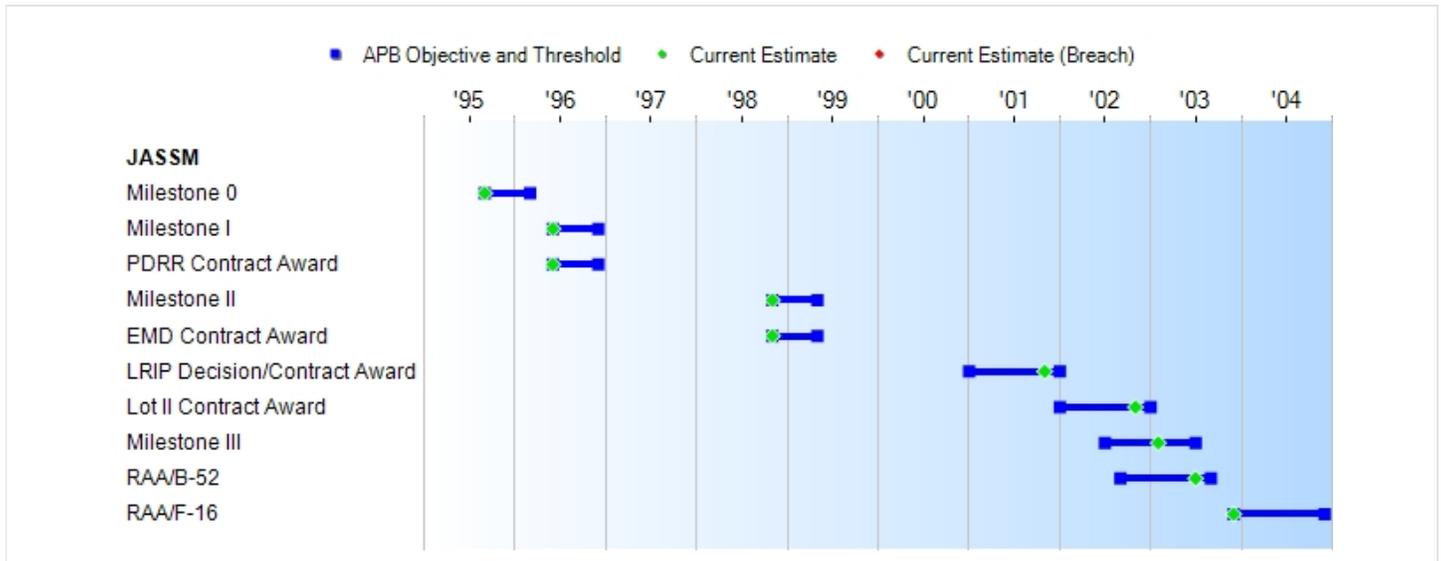
APB Breaches		
--------------	--	--

- Schedule
- Performance
- Cost
  - RDT&E
  - Procurement
  - MILCON
  - Acq O&M
- Unit Cost
  - PAUC
  - APUC

Nunn-McCurdy Breaches		
-----------------------	--	--

- Current UCR Baseline**
  - PAUC None
  - APUC None
- Original UCR Baseline**
  - PAUC None
  - APUC None

### Schedule



Milestones	SAR Baseline Dev Est	Current APB Development Objective/Threshold		Current Estimate
Milestone 0	SEP 1995	SEP 1995	MAR 1996	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	NOV 2001
Lot II Contract Award	JAN 2002	JAN 2002	JAN 2003	NOV 2002
Milestone III	JUL 2002	JUL 2002	JUL 2003	FEB 2003
RAA/B-52	SEP 2002	SEP 2002	SEP 2003	JUL 2003
RAA/F-16	DEC 2003	DEC 2003	DEC 2004	DEC 2003

### Change Explanations

None

### Memo

Acronyms  
 PDRR - Program Definition and Risk Reduction  
 RAA - Required Assets Available  
 RAA for the B-52 is 42 missiles  
 RAA for the F-16 is 25 missiles

Change Explanations:  
 The Approved Program represents the Milestone II approved APB.

## **Performance**

Note: Classified and unclassified performance parameters are displayed in the Classified DAMIR.

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

APPN 3600 PE 0207325F (Air Force)  
Joint Air-to-Surface Standoff Missile

APPN 1319 PE 0604312N (Navy)  
Joint Air-to-Surface Standoff Missile

**Procurement**

APPN 3020 (Air Force) ICN 0207325F  
Joint Air-to-Surface Standoff Missile

## Cost and Funding

### Cost Summary

#### Total Acquisition Cost and Quantity

Appropriation	BY1995 \$M				TY \$M		
	SAR Baseline Dev Est	Current APB Development Objective/Threshold	Current Estimate		SAR Baseline Dev Est	Current APB Development Objective	Current Estimate
RDT&E	771.1	771.1	886.8	771.9	838.6	838.6	827.8
Procurement	960.0	960.0	1104.0	957.1	1209.6	1209.6	1178.3
Flyaway	914.3	--	--	--	--	--	--
Recurring	914.3	--	--	--	--	--	--
Non Recurring	0.0	--	--	0.0	--	--	0.0
Support	45.7	--	--	--	--	--	--
Other Support	45.7	--	--	--	--	--	--
Initial Spares	0.0	--	--	--	--	--	--
MILCON	18.4	18.4	21.2	--	25.1	25.1	--
Acq O&M	--	--	--	--	--	--	--
<b>Total</b>	<b>1749.5</b>	<b>1749.5</b>	<b>N/A</b>	<b>1729.0</b>	<b>2073.3</b>	<b>2073.3</b>	<b>2006.1</b>

Note: Procurement funding does not include Seek Eagle funding of \$19.3M (\$6.4M in FY01, \$3.4M in FY02, \$3.7M in FY04 and \$2.9M in FY05). Exit criteria for LRIP were approved at Milestone II.

Quantity	SAR Baseline Dev Est	Current APB Development	Current Estimate
RDT&E	69	69	61
Procurement	2400	2400	2400
<b>Total</b>	<b>2469</b>	<b>2469</b>	<b>2461</b>

Note: The SAR Development Baseline quantity represents the 69 fully-configured RDT&E units for EMD (10 Contractor Development Test and Evaluation (CDT&E) units, 9 Initial Operational Test and Evaluation (IOT&E) units and 42 pre-production operational test units (PPOTUs)). Due to a Congressionally-directed decrease of 8 PPOTUs, the Current Estimate quantity represents 61 fully-configured RDT&E units for EMD.

## Funding Summary

### Appropriation and Quantity Summary

#### SEP 1999 Exception SAR (TY \$M)

Appropriation	Prior	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total
RDT&E	357.4	130.9	168.4	73.0	55.6	23.1	11.3	8.1	0.0	827.8
Procurement	0.0	0.0	0.0	45.9	49.1	103.7	141.8	149.1	688.7	1178.3
MILCON	0.0	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	0.0
SEP 1999 Total	357.4	130.9	168.4	118.9	104.7	126.8	153.1	157.2	688.7	2006.1
PB2000 Total	357.4	130.9	168.4	118.9	104.7	126.8	153.1	157.2	688.7	2006.1
Delta	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Quantity	Prior	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	61
Production	0	0	0	87	91	242	340	346	1294	2400
SEP 1999 Total	0	0	0	87	91	242	340	346	1294	2461
PB2000 Total	0	0	0	87	91	242	340	346	1294	2461
Delta	0	0	0	0	0	0	0	0	0	0

#### FY2000 President's Budget / December 1998 SAR (TY\$ M)

Appropriation	Prior	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total
RDT&E	357.4	130.9	168.4	73.0	55.6	23.1	11.3	8.1	0.0	827.8
Procurement	0.0	0.0	0.0	45.9	49.1	103.7	141.8	149.1	688.7	1178.3
MILCON	0.0	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	0.0
PB2000 Total	357.4	130.9	168.4	118.9	104.7	126.8	153.1	157.2	688.7	2006.1
PB1999 Total	315.6	135.0	106.5	36.2	6.9	2.0	0.0	0.0	0.0	602.2
Delta	41.8	-4.1	61.9	82.7	97.8	124.8	153.1	157.2	688.7	1403.9

Quantity	Prior	FY1999	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	61
Production	0	0	0	87	91	242	340	346	1294	2400
PB2000 Total	0	0	0	87	91	242	340	346	1294	2461
PB1999 Total	0	0	0	0	0	0	0	0	0	52
Delta	0	0	0	87	91	242	340	346	1294	2409

### Annual Funding By Appropriation

**Annual Funding TY\$**

1319 | RDT&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
1998	--	--	--	--	--	--	5.3
1999	--	--	--	--	--	--	2.1
2000	--	--	--	--	--	--	2.0
2001	--	--	--	--	--	--	2.0
2002	--	--	--	--	--	--	2.0
2003	--	--	--	--	--	--	2.0
2004	--	--	--	--	--	--	2.1
2005	--	--	--	--	--	--	2.1
<b>Subtotal</b>	--	--	--	--	--	--	<b>19.6</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1998	--	--	--	--	--	--	5.0
1999	--	--	--	--	--	--	2.0
2000	--	--	--	--	--	--	1.8
2001	--	--	--	--	--	--	1.8
2002	--	--	--	--	--	--	1.8
2003	--	--	--	--	--	--	1.8
2004	--	--	--	--	--	--	1.8
2005	--	--	--	--	--	--	1.8
<b>Subtotal</b>	--	--	--	--	--	--	<b>17.8</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	--	--	--	--	--	--	27.6
1997	--	--	--	--	--	--	160.7
1998	--	--	--	--	--	--	163.8
1999	--	--	--	--	--	--	128.8
2000	--	--	--	--	--	--	166.4
2001	--	--	--	--	--	--	71.0
2002	--	--	--	--	--	--	53.6
2003	--	--	--	--	--	--	21.1
2004	--	--	--	--	--	--	9.2
2005	--	--	--	--	--	--	6.0
<b>Subtotal</b>	<b>61</b>	--	--	--	--	--	<b>808.2</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1996	--	--	--	--	--	--	26.7
1997	--	--	--	--	--	--	153.5
1998	--	--	--	--	--	--	155.4
1999	--	--	--	--	--	--	120.8
2000	--	--	--	--	--	--	153.8
2001	--	--	--	--	--	--	64.5
2002	--	--	--	--	--	--	47.9
2003	--	--	--	--	--	--	18.5
2004	--	--	--	--	--	--	7.9
2005	--	--	--	--	--	--	5.1
<b>Subtotal</b>	<b>61</b>	--	--	--	--	--	<b>754.1</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	87	--	--	--	--	--	45.9
2002	91	--	--	--	--	--	49.1
2003	242	--	--	--	--	--	103.7
2004	340	--	--	--	--	--	141.8
2005	346	--	--	--	--	--	149.1
2006	360	--	--	--	--	--	184.9
2007	360	--	--	--	--	--	188.4
2008	360	--	--	--	--	--	191.9
2009	214	--	--	--	--	--	123.5
<b>Subtotal</b>	<b>2400</b>	--	--	--	--	--	<b>1178.3</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
2001	87	--	--	--	--	--	41.0
2002	91	--	--	--	--	--	43.1
2003	242	--	--	--	--	--	89.2
2004	340	--	--	--	--	--	119.5
2005	346	--	--	--	--	--	123.0
2006	360	--	--	--	--	--	149.5
2007	360	--	--	--	--	--	149.2
2008	360	--	--	--	--	--	148.8
2009	214	--	--	--	--	--	93.8
<b>Subtotal</b>	<b>2400</b>	--	--	--	--	--	<b>957.1</b>

Note: Procurement funding does not include Seek Eagle funding of \$19.3M (\$6.4M in FY01, \$3.4M in FY02, \$3.7M in FY04 and \$2.9M in FY05)

**Cost Quantity Information****3020 | Procurement | Missile Procurement, Air Force**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway (Aligned with Quantity) BY 1995 \$M</b>
2001	87	35.3
2002	91	37.3
2003	242	83.3
2004	340	114.3
2005	346	117.8
2006	360	144.6
2007	360	144.4
2008	360	144.0
2009	214	89.0
<b>Subtotal</b>	<b>2400</b>	<b>910.0</b>

**Low Rate Initial Production**

None

**Foreign Military Sales**

None.

**Nuclear Cost**

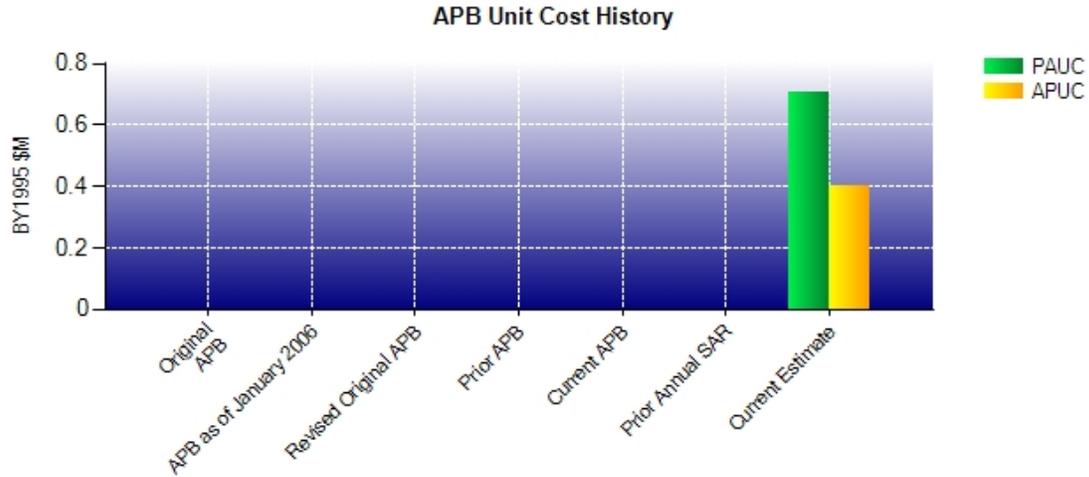
None.

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

<b>Unit Cost</b>	<b>BY1995 \$M</b>		
	<b>Current UCR Baseline (NOV 1998 APB)</b>	<b>Current Estimate (SEP 1999 SAR)</b>	<b>BY % Change</b>
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost	1749.5	1729.0	
Quantity	2469	2461	
Unit Cost	0.709	0.703	-0.85
<b>Average Procurement Unit Cost (APUC)</b>			
Cost	960.0	957.1	
Quantity	2400	2400	
Unit Cost	0.400	0.399	-0.25

<b>Unit Cost</b>	<b>BY1995 \$M</b>		
	<b>Original UCR Baseline</b>	<b>Current Estimate (SEP 1999 SAR)</b>	<b>BY % Change</b>
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost		1729.0	
Quantity		2461	
Unit Cost		0.703	+0.00
<b>Average Procurement Unit Cost (APUC)</b>			
Cost		957.1	
Quantity		2400	
Unit Cost		0.399	+0.00

### Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	N/A	N/A	N/A	N/A	N/A
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	N/A	N/A	N/A	N/A	N/A
Current APB	N/A	N/A	N/A	N/A	N/A
Prior Annual SAR	N/A	N/A	N/A	N/A	N/A
Current Estimate	SEP 1999	0.703	0.399	0.815	0.491

### SAR Unit Cost History

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

Initial PAUC Dev Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.840	-0.018	0.004	0.019	-0.023	-0.008	0.000	0.001	-0.025	0.815

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

Initial APUC Dev Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.504	-0.004	0.000	0.009	0.000	-0.019	0.000	0.001	-0.013	0.491

**SAR Baseline History**

<b>Item/Event</b>	<b>SAR Planning Estimate (PE)</b>	<b>SAR Development Estimate (DE)</b>	<b>SAR Production Estimate (PdE)</b>	<b>Current Estimate</b>
Total Cost (TY \$M)	811.3	2073.3	N/A	2006.1
Total Quantity	44	2469	N/A	2461
Prog. Acq. Unit Cost (PAUC)	18.439	0.840	N/A	0.815

**Cost Variance**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	838.6	1209.6	25.1	2073.3
Previous Changes				
Economic	-35.1	-10.3	0.0	-45.4
Quantity	+3.6	0.0	0.0	+3.6
Schedule	+26.8	+20.8	0.0	+47.6
Engineering	-56.3	0.0	0.0	-56.3
Estimating	+50.2	-43.8	-25.1	-18.7
Other	0.0	0.0	0.0	0.0
Support	0.0	+2.0	0.0	+2.0
Subtotal	-10.8	-31.3	-25.1	-67.2
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	--	--	--	--
Other	--	--	--	--
Support	--	--	--	--
Subtotal	--	--	--	--
Total Changes	-10.8	-31.3	-25.1	-67.2
CE - Cost Variance	827.8	1178.3	--	2006.1
CE - Cost & Funding	827.8	1178.3	--	2006.1

<b>Summary Base Year 1995 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	771.1	960.0	18.4	1749.5
Previous Changes				
Economic	0.0	0.0	0.0	0.0
Quantity	+3.4	0.0	0.0	+3.4
Schedule	+24.0	+14.8	0.0	+38.8
Engineering	-47.4	0.0	0.0	-47.4
Estimating	+20.8	-19.1	-18.4	-16.7
Other	0.0	0.0	0.0	0.0
Support	0.0	+1.4	0.0	+1.4
Subtotal	+0.8	-2.9	-18.4	-20.5
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	--	--	--	--
Other	--	--	--	--
Support	--	--	--	--
Subtotal	--	--	--	--
Total Changes	+0.8	-2.9	-18.4	-20.5
CE - Cost Variance	771.9	957.1	--	1729.0
CE - Cost & Funding	771.9	957.1	--	1729.0

Previous Estimate: December 1998

## Contracts

Appropriation: RDT&E	
Contract Name	JASSM EMD
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08626-96-C-0002, CPAF
Award Date	November 13, 1998
Definitization Date	November 13, 1998

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
172.5	N/A	0	255.8	N/A	0	255.8	323.6

	Cost Variance	Schedule Variance
Previous Cumulative Variances	--	--
Cumulative Variances To Date (6/28/1999)	-3.6	-5.7
Net Change	-3.6	-5.7

### Cost And Schedule Variance Explanations

The unfavorable schedule variance is due to late supplier and subcontractor deliveries of EMD hardware and slow billing from subcontractors. The unfavorable cost variance is due to the contractor's inability to reduce personnel as planned caused by late deliveries. The contractor paid higher than expected prices for hardware in an attempt to meet schedule.

### Contract Comments

The difference of \$83.3 million between the Initial Contract Price and the Current Contract Price is due to the extension of EMD by six months based on the Milestone II decision and the addition of Selective Availability Anti-Spoofing Module (SAASM) task, Joint Expeditionary Forces eXperiment (JEFX) task, and the Congressionally mandated alternate engine study.

**Deliveries and Expenditures**

<b>Deliveries To Date</b>	<b>Plan</b>	<b>Actual</b>	<b>Total Quantity</b>	<b>Percent Delivered</b>
Development	0	0	61	0.00%
Production	0	0	2400	0.00%
<b>Total Program Quantities Delivered</b>	<b>0</b>	<b>0</b>	<b>2461</b>	<b>0.00%</b>

**Expenditures and Appropriations (TY \$M)**

Total Acquisition Cost	2006.1	Years Appropriated	4
Expenditures To Date	488.0	Percent Years Appropriated	28.57%
Percent Expended	24.33%	Appropriated to Date	488.3
Total Funding Years	14	Percent Appropriated	24.34%

## Operating and Support Cost

### Assumptions and Ground Rules

Note: Corrected from the previous submission. Costs changed from Average Annual Cost in Millions to Average Annual Cost per JASSM in Thousands.

Assumptions: The estimate includes only Air Force requirements. The Navy requirements are not defined. Shelf life is assumed to be 20 years after which the JASSM units will be returned for disposal. JASSM is issued to the Government with a 15 year warranty that covers all failures except acts of God and natural disasters. Included under the warranty are Contractor performed Organizational BIT surveillance testing, Depot level repairs, all repair-induced transportation within CONUS, all systemic defect induced retrofits and software maintenance. WSEP surveillance testing is based on four live firings per year for the life cycle of the weapons. Second destination transportation is based on 65 percent of the weapons remaining in CONUS and 35 percent OCONUS. The estimate was prepared on 9 October 1998 for the Milestone II review.

There is no antecedent system for JASSM.

#### Costs BY1995 \$K

Cost Element	JASSM Per JASSM	N/A
Mission Pay & Allowance	0.000	--
Unit Level Consumption	0.400	--
Intermediate Maintenance	0.000	--
Depot Maintenance	0.100	--
Contractor Support	0.000	--
Sustaining Support	0.500	--
Indirect	0.036	--
Other	--	--
Total Unitized Cost (Base Year 1995 \$)	1.036	--

Total O&S Costs \$M	JASSM	N/A
Base Year	--	--
Then Year	--	--



# Defense Acquisition Management Information Retrieval (DAMIR)



## Selected Acquisition Report (SAR)

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



### **JASSM**

As of December 31, 1999

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

USAF; USN

## Responsible Office

### Responsible Office

SES Terry R. Little

AAC/YV

JASSM System Program Office

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Eglin AFB, FL 32542-6807

[little@eglin.af.mil](mailto:little@eglin.af.mil)

**Phone** 850-882-4785 ext. 3046

**Fax** --

**DSN Phone** 872-4785 ext. 3046

**DSN Fax** --

**Date Assigned** January 2, 1996

## References

### SAR Baseline (Development Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated November 9, 1998

### Approved APB

DAE Approved Acquisition Program Baseline (APB) dated November 9, 1998

## Mission and Description

The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation air-to-surface missile that will enable Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack both fixed and relocatable targets ranging from non-hardened above ground to moderately hardened buried point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM does not replace any existing weapon system.

## Executive Summary

The JASSM program office is restructuring the master schedule due to delays in development. USD(AT&L) approved the restructure on 1 November 1999. We will extend EMD by approximately ten months. Consequently, the LRIP I contract award will move from January 2001 to November 2001. There are no APB breaches. Several factors drove the restructure. First, the Teledyne engine development/modification process progressed at a pace slower than planned due to bearing, digital fuel control and compressor design issues. Second, several key subcontractors, two of them small businesses, were delivering items late due to the configuration changes made by Lockheed Martin Skunkworks. Third, two unplanned development test flights are required because of a new air data probe design driven by weight, cost and nose mold line and pitot port location changes.

This restructure shifted the entire production program out one fiscal year and freed up \$144.5 M in the Future Year Defense Plan (FYDP). Of this, \$52.6 M was moved to EMD and the remainder returned to the Department of Defense. The Air Force also supplied Acquisition Stability Reserve (ASR) funds to support the Air Force C4I infrastructure evolution and the addition of 21 Production Prove-Out Test Units (PPOTUs) needed for aircraft integration and anti-tamper testing. Lockheed committed to limiting the escalation of the Firm Fixed Price Production option prices for Lots 1 to 5 to 4.99 percent.

The majority of the FY00 test program is not affected by the restructure. Mission planning builds, SEEK EAGLE flight certification, Instrumented Measurement Vehicle (IMV) tests, ground tests and environmental qualification all maintain schedule. Four Development Test/Operational Test (DT/OT) tests move to FY01. Additional design efforts in the airframe, engine and fuze are planned to stabilize the production configuration before DT/OT. The majority of the restructure costs represent additional man loading necessary to meet the requirements of the restructure schedule.

Teledyne has been delivering engines and has a viable plan for the improved delivery schedule they have promised Lockheed. They are no longer the long pole in our development schedule. During the month of November, the JASSM Program Director completed a series of trips to all of the key JASSM suppliers. He briefed them on the need for JASSM by the warfighter and their importance to JASSM's success.

We conducted the flight test of our last prototype vehicle, Flight Test Vehicle (FTV) 3, on 23 November. We achieved all test objectives during the 22 minute, 180 mile flight. The next scheduled flight test is a contractor test in September 2000. The first DT/OT test is planned for February 2001.

Lockheed's other recent test accomplishments include the successful December 1 Sled Test. The test involved a live warhead with an instrumented fuze. The warhead sliced through four feet of concrete (5,000 psi) at 856 feet per second. Lockheed demonstrated the lethality of the warhead with the December 14 Arena Test.

Lockheed Martin completed 644 successful passes during 118 sorties with the Captive Carry Flying Test Bed (FTB), with data archived. This testing provided integrated phase testing of the PDRR Inertial Measurement Unit (IMU), seeker and missile control unit under flight conditions against representative targets. Using EMD hardware, Lockheed is currently conducting Missile Avionics Simulator (MAS) testing. The MAS consists of a helicopter (UH-1N) mounted production configuration JASSM Seeker, Missile control Unit, JASSM Anti-Jam GPS Receiver (JAGR) and antenna and IMU components. So far, 117 passes during 19 sorties have been completed, verifying the JASSM enroute navigation and the terminal performance functions of the seeker, automatic target correlator, gimbal servo control and associated software algorithms against representative targets under terminal dive geometries.

Lockheed's mission planning IPT successfully completed Joint Expeditionary Forces eXperiment (JEFX) 99 Spiral 3 when they demonstrated the Precision Targeting Module (PTM) and the Weapon Planning Module (WPM) capability as integrated within the JEFX 99 C4I infrastructure. Lockheed provided follow-on training to the Rear Echelon Production Facility (REPF), PTM training for intelligence personnel and WPM and PTM training at the Expeditionary Operations Center (EOC) with AFOTEC observing. We have been able to leverage from JEFX C4I environment to include experimenting with building, retrieving, modifying, storing and disseminating seeker models at the JASSM production facility and accessing imagery products in the field. We have also been able wring out the CONOPs early by having operator hands-on and experimenting with JASSM tasking during the ATO cycle. Users were able to

mission plan rapidly and feedback was very positive.

### Threshold Breaches

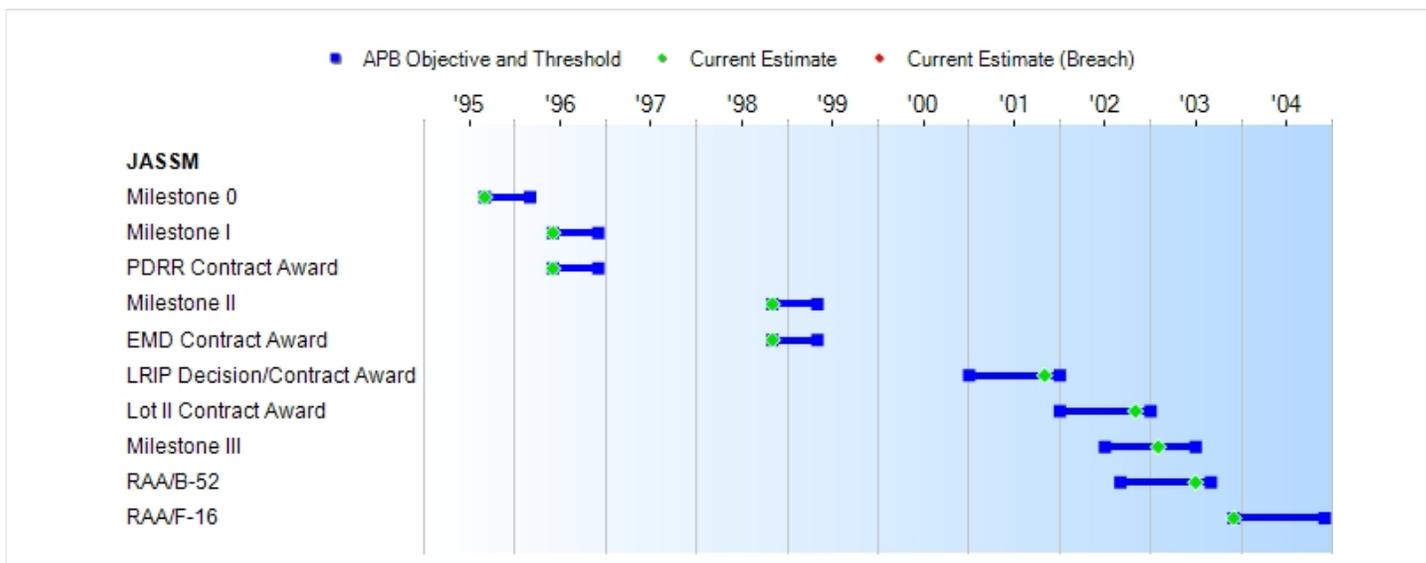
APB Breaches		
--------------	--	--

- Schedule
- Performance
- Cost
  - RDT&E
  - Procurement
  - MILCON
  - Acq O&M
- Unit Cost
  - PAUC
  - APUC

Nunn-McCurdy Breaches		
-----------------------	--	--

- Current UCR Baseline**
  - PAUC None
  - APUC None
- Original UCR Baseline**
  - PAUC None
  - APUC None

### Schedule



Milestones	SAR Baseline Dev Est	Current APB Development Objective/Threshold		Current Estimate
Milestone 0	SEP 1995	SEP 1995	MAR 1996	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	NOV 2001
Lot II Contract Award	JAN 2002	JAN 2002	JAN 2003	NOV 2002
Milestone III	JUL 2002	JUL 2002	JUL 2003	FEB 2003
RAA/B-52	SEP 2002	SEP 2002	SEP 2003	JUL 2003
RAA/F-16	DEC 2003	DEC 2003	DEC 2004	DEC 2003

### Change Explanations

None

### Memo

Acronyms

PDRR - Program Definition and Risk Reduction

RAA - Required Assets Available

RAA for the B-52 is 42 missiles

RAA for the F-16 is 25 missiles

Change Explanations:

The Approved Program represents the Milestone II approved APB.

Notes: Approved APB thresholds for LRIP Decision/Contract Award, Milestone III, RAA/B-52 and RAA/F-16 are one year, not six months. All Current Estimates are within approved thresholds.

## Performance

Note: Classified and unclassified performance parameters are displayed in the Classified DAMIR.

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

APPN 3600 PE 0207325F (Air Force)  
Joint Air-to-Surface Standoff Missile  
APPN 1319 PE 0604312N (Navy)  
Joint Air-to-Surface Standoff Missile

**Procurement**

APPN 3020 (Air Force) ICN 0207325F  
Joint Air-to-Surface Standoff Missile

## Cost and Funding

### Cost Summary

#### Total Acquisition Cost and Quantity

Appropriation	BY1995 \$M				TY \$M		
	SAR Baseline Dev Est	Current APB Development Objective/Threshold	Current Estimate	SAR Baseline Dev Est	Current APB Development Objective	Current Estimate	
RDT&E	771.1	771.1	886.8	838.6	838.6	892.0	
Procurement	960.0	960.0	1104.0	1209.6	1209.6	1209.4	
Flyaway	914.3	--	--	--	--	--	
Recurring	914.3	--	--	--	--	--	
Non Recurring	0.0	--	--	0.0	--	0.0	
Support	45.7	--	--	--	--	--	
Other Support	45.7	--	--	--	--	--	
Initial Spares	0.0	--	--	--	--	--	
MILCON	18.4	18.4	21.2	25.1	25.1	--	
Acq O&M	--	--	--	--	--	--	
<b>Total</b>	<b>1749.5</b>	<b>1749.5</b>	<b>N/A</b>	<b>1807.2</b>	<b>2073.3</b>	<b>2073.3</b>	<b>2101.4</b>

Note: Procurement funding does not include Seek Eagle funding of \$19.3M (\$6.4M in FY01, \$3.4M in FY02, \$3.7M in FY04 and \$2.9M in FY05). Exit criteria for LRIP were approved at Milestone II.

Quantity	SAR Baseline Dev Est	Current APB Development	Current Estimate
RDT&E	69	69	82
Procurement	2400	2400	2400
<b>Total</b>	<b>2469</b>	<b>2469</b>	<b>2482</b>

Note: Total Program Quantity includes 82 fully configured RDT&E units for EMD (10 Contractor Development Test and Evaluation (CDT&E) units, 9 Initial Operational Test and Evaluation (IOT&E) units and 63 Pre-Production Operational Test Units (PPOTUs). Post November 1998 APB, Congressional action deleted 8 PPOTUs and 21 were added during the November 1999 restructure. LRIP quantities for the JASSM program have not yet been approved.

## Funding Summary

### Appropriation and Quantity Summary

#### FY2001 President's Budget / December 1999 SAR (TY\$ M)

Appropriation	Prior	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total
RDT&E	480.2	166.4	122.3	70.8	37.2	9.1	6.0	0.0	892.0
Procurement	0.0	0.0	0.0	42.9	50.5	101.8	145.4	868.8	1209.4
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
PB2001 Total	480.2	166.4	122.3	113.7	87.7	110.9	151.4	868.8	2101.4
PB2000 Total	488.3	168.4	118.9	104.7	126.8	153.1	157.2	688.7	2006.1
Delta	-8.1	-2.0	3.4	9.0	-39.1	-42.2	-5.8	180.1	95.3

Quantity	Prior	FY2000	FY2001	FY2002	FY2003	FY2004	FY2005	To Complete	Total
Development	0	0	0	0	0	0	0	0	82
Production	0	0	0	87	92	242	347	1632	2400
PB2001 Total	0	0	0	87	92	242	347	1632	2482
PB2000 Total	0	0	87	91	242	340	346	1294	2461
Delta	0	0	-87	-4	-150	-98	1	338	21

### Annual Funding By Appropriation

**Annual Funding TY\$**

**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	--	--	--	--	--	--	5.2
1999	--	--	--	--	--	--	1.8
2000	--	--	--	--	--	--	2.0
2001	--	--	--	--	--	--	2.0
2002	--	--	--	--	--	--	2.0
<b>Subtotal</b>	--	--	--	--	--	--	<b>13.0</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1998	--	--	--	--	--	--	4.9
1999	--	--	--	--	--	--	1.7
2000	--	--	--	--	--	--	1.9
2001	--	--	--	--	--	--	1.8
2002	--	--	--	--	--	--	1.8
<b>Subtotal</b>	--	--	--	--	--	--	<b>12.1</b>

## Annual Funding TY\$

## 3600 | RDT&amp;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	--	--	--	--	--	--	121.1
2000	--	--	--	--	--	--	164.4
2001	--	--	--	--	--	--	120.3
2002	--	--	--	--	--	--	68.8
2003	--	--	--	--	--	--	37.2
2004	--	--	--	--	--	--	9.1
2005	--	--	--	--	--	--	6.0
<b>Subtotal</b>	<b>82</b>	--	--	--	--	--	<b>879.0</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1996	--	--	--	--	--	--	26.7
1997	--	--	--	--	--	--	153.5
1998	--	--	--	--	--	--	155.4
1999	--	--	--	--	--	--	113.9
2000	--	--	--	--	--	--	152.8
2001	--	--	--	--	--	--	110.1
2002	--	--	--	--	--	--	62.0
2003	--	--	--	--	--	--	33.0
2004	--	--	--	--	--	--	7.9
2005	--	--	--	--	--	--	5.1
<b>Subtotal</b>	<b>82</b>	--	--	--	--	--	<b>820.4</b>

## Annual Funding TY\$

## 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
2002	87	--	--	--	--	--	42.9
2003	92	--	--	--	--	--	50.5
2004	242	--	--	--	--	--	101.8
2005	347	--	--	--	--	--	145.4
2006	360	--	--	--	--	--	148.8
2007	360	--	--	--	--	--	197.5
2008	360	--	--	--	--	--	200.1
2009	360	--	--	--	--	--	204.4
2010	192	--	--	--	--	--	118.0
<b>Subtotal</b>	<b>2400</b>	--	--	--	--	--	<b>1209.4</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
2002	87	--	--	--	--	--	38.0
2003	92	--	--	--	--	--	43.9
2004	242	--	--	--	--	--	86.7
2005	347	--	--	--	--	--	121.4
2006	360	--	--	--	--	--	121.8
2007	360	--	--	--	--	--	158.5
2008	360	--	--	--	--	--	157.4
2009	360	--	--	--	--	--	157.7
2010	192	--	--	--	--	--	89.3
<b>Subtotal</b>	<b>2400</b>	--	--	--	--	--	<b>974.7</b>

Note: Procurement funding does not include Seek Eagle funding of \$10.1M (\$0.7M in FY01, \$2.9M in FY02, \$3.6M in FY04 and \$2.9M in FY05)

**Cost Quantity Information****3020 | Procurement | Missile Procurement, Air Force**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway (Aligned with Quantity) BY 1995 \$M</b>
2002	87	34.3
2003	92	38.3
2004	242	80.6
2005	347	115.2
2006	360	115.3
2007	360	151.9
2008	360	150.6
2009	360	150.8
2010	192	82.7
<b>Subtotal</b>	<b>2400</b>	<b>919.7</b>

**Low Rate Initial Production**

None

**Foreign Military Sales**

None.

**Nuclear Cost**

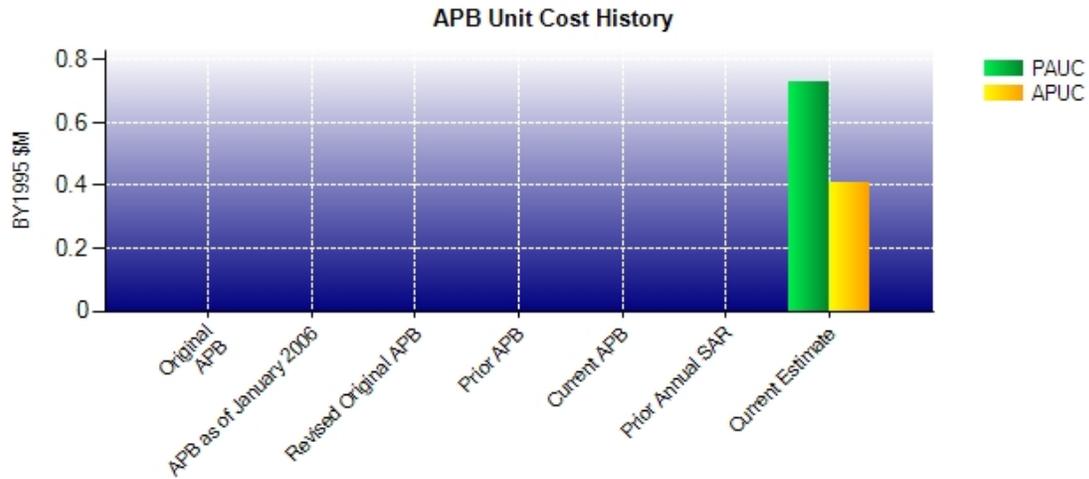
None.

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

<b>Unit Cost</b>	<b>BY1995 \$M</b>		
	<b>Current UCR Baseline (NOV 1998 APB)</b>	<b>Current Estimate (DEC 1999 SAR)</b>	<b>BY % Change</b>
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost	1749.5	1807.2	
Quantity	2469	2482	
Unit Cost	0.709	0.728	+2.68
<b>Average Procurement Unit Cost (APUC)</b>			
Cost	960.0	974.7	
Quantity	2400	2400	
Unit Cost	0.400	0.406	+1.50

<b>Unit Cost</b>	<b>BY1995 \$M</b>		
	<b>Original UCR Baseline</b>	<b>Current Estimate (DEC 1999 SAR)</b>	<b>BY % Change</b>
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost		1807.2	
Quantity		2482	
Unit Cost		0.728	+0.00
<b>Average Procurement Unit Cost (APUC)</b>			
Cost		974.7	
Quantity		2400	
Unit Cost		0.406	+0.00

### Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	N/A	N/A	N/A	N/A	N/A
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	N/A	N/A	N/A	N/A	N/A
Current APB	N/A	N/A	N/A	N/A	N/A
Prior Annual SAR	N/A	N/A	N/A	N/A	N/A
Current Estimate	DEC 1999	0.728	0.406	0.847	0.504

### SAR Unit Cost History

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

Initial PAUC Dev Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.840	-0.023	0.002	0.062	-0.023	-0.016	0.000	0.005	0.007	0.847

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

Initial APUC Dev Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.504	-0.010	0.000	0.023	0.000	-0.018	0.000	0.005	0.000	0.504

**SAR Baseline History**

<b>Item/Event</b>	<b>SAR Planning Estimate (PE)</b>	<b>SAR Development Estimate (DE)</b>	<b>SAR Production Estimate (PdE)</b>	<b>Current Estimate</b>
Total Cost (TY \$M)	811.3	2073.3	N/A	2101.4
Total Quantity	44	2469	N/A	2482
Prog. Acq. Unit Cost (PAUC)	18.439	0.840	N/A	0.847

**Cost Variance**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	838.6	1209.6	25.1	2073.3
Previous Changes				
Economic	-35.1	-10.3	0.0	-45.4
Quantity	+3.6	0.0	0.0	+3.6
Schedule	+26.8	+20.8	0.0	+47.6
Engineering	-56.3	0.0	0.0	-56.3
Estimating	+50.2	-43.8	-25.1	-18.7
Other	0.0	0.0	0.0	0.0
Support	0.0	+2.0	0.0	+2.0
Subtotal	-10.8	-31.3	-25.1	-67.2
Current Changes				
Economic	+2.3	-14.4	--	-12.1
Quantity	+12.6	--	--	+12.6
Schedule	+70.1	+35.1	--	+105.2
Engineering	--	--	--	--
Estimating	-20.8	--	--	-20.8
Other	--	--	--	--
Support	--	+10.4	--	+10.4
Subtotal	+64.2	+31.1	--	+95.3
Total Changes	+53.4	-0.2	-25.1	+28.1
CE - Cost Variance	892.0	1209.4	--	2101.4
CE - Cost & Funding	892.0	1209.4	--	2101.4

<b>Summary Base Year 1995 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	771.1	960.0	18.4	1749.5
Previous Changes				
Economic	0.0	0.0	0.0	0.0
Quantity	+3.4	0.0	0.0	+3.4
Schedule	+24.0	+14.8	0.0	+38.8
Engineering	-47.4	0.0	0.0	-47.4
Estimating	+20.8	-19.1	-18.4	-16.7
Other	0.0	0.0	0.0	0.0
Support	0.0	+1.4	0.0	+1.4
Subtotal	+0.8	-2.9	-18.4	-20.5
Current Changes				
Economic	--	--	--	--
Quantity	+11.3	--	--	+11.3
Schedule	+63.6	+9.7	--	+73.3
Engineering	--	--	--	--
Estimating	-14.3	--	--	-14.3
Other	--	--	--	--
Support	--	+7.9	--	+7.9
Subtotal	+60.6	+17.6	--	+78.2
Total Changes	+61.4	+14.7	-18.4	+57.7
CE - Cost Variance	832.5	974.7	--	1807.2
CE - Cost & Funding	832.5	974.7	--	1807.2

Previous Estimate: September 1999

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	-2.6
Economic adjustment for negative program change. (Economic)	N/A	+4.9
21 additional PPOTUs for aircraft integration and anti-jam testing (Quantity) (QR)	+11.3	+12.6
Restructure (Schedule)	+63.6	+70.1
Redefined Navy Program (Estimating)	-5.7	-11.0
Adjustment for Current and Prior Inflation. (Estimating)	+1.2	+1.4
Congressional/OSD/AF reductions (Estimating)	-9.8	-11.2
RDT&E Subtotal	+60.6	+64.2

(QR) Quantity Related

Procurement	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	-14.4
Shift of annual procurement buy profile from FY2001 -FY2009 to FY2002-FY2010. (Schedule)	+9.7	+35.1
Addition of FY2010 (Support)	+7.9	+10.4
Procurement Subtotal	+17.6	+31.1

## Contracts

Appropriation: RDT&E	
Contract Name	JASSM EMD
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08626-96-C-0002, CPAF
Award Date	November 13, 1998
Definitization Date	November 13, 1998

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
172.5	N/A	0	260.4	N/A	0	260.4	324.6

	Cost Variance	Schedule Variance
Previous Cumulative Variances	-3.6	-5.7
Cumulative Variances To Date (11/28/1999)	-7.9	-9.3
Net Change	-4.3	-3.6

### Cost And Schedule Variance Explanations

The unfavorable schedule variance is due to late deliveries of flight test hardware from suppliers driven by factors described in the Executive Summary. The unfavorable cost variance is due to Lockheed not meeting planned personnel attrition rates. The manpower loading and associated cost will increase to meet the requirements of the restructure.

### Contract Comments

The difference of \$87.9 million between the Initial Contract Price and the Current Contract Price is due to the extension of EMD by six months based on the Milestone II decision and the addition of Selective Availability Anti-Spoofing Module (SAASM) task, Joint Expeditionary Forces eXperiment (JEFX) task, the Congressionally mandated alternate engine study and additional B-2 wind tunnel work.

The Contractor's EAC does not include the additional scope of the restructure while the Program Manager's EAC does.

**Deliveries and Expenditures**

<b>Deliveries To Date</b>	<b>Plan</b>	<b>Actual</b>	<b>Total Quantity</b>	<b>Percent Delivered</b>
Development	0	0	82	0.00%
Production	0	0	2400	0.00%
<b>Total Program Quantities Delivered</b>	<b>0</b>	<b>0</b>	<b>2482</b>	<b>0.00%</b>

**Expenditures and Appropriations (TY \$M)**

Total Acquisition Cost	2101.4	Years Appropriated	5
Expenditures To Date	647.0	Percent Years Appropriated	33.33%
Percent Expended	30.79%	Appropriated to Date	646.6
Total Funding Years	15	Percent Appropriated	30.77%

## Operating and Support Cost

### Assumptions and Ground Rules

The JASSM O&S estimate includes only Air Force requirements. The Navy requirements are not yet defined. A 15 year bumper-to-bumper warranty is assumed with a 20 year shelf life and the subsequent demilitarization of the weapon. As part of the warranty, the contractor will perform all warranty surveillance and the resulting repairs with the exception of acts of God and natural disasters. Included in the warranty are depot-level repairs and repair-induced transportation within CONUS, all systemic defect induced retrofits and software maintenance. Transportation costs assume 70 percent of the weapons will be deployed in CONUS and 30 percent OCONUS. The JASSM program will not stand up a Government depot; however, the estimate does include costs for minor technical support, repair of government induced failures and program office support. This estimate was prepared November 04, 1999 for the Air Combat Command (ACC) budget process.

There is no antecedent system for JASSM.

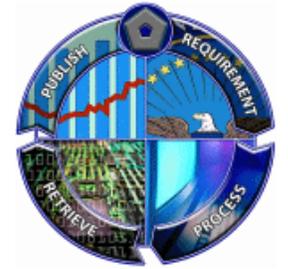
### Costs BY1995 \$K

Cost Element	JASSM Per JASSM	N/A
Mission Pay & Allowance	0.0	--
Unit Level Consumption	0.0	--
Intermediate Maintenance	0.0	--
Depot Maintenance	0.4	--
Contractor Support	0.0	--
Sustaining Support	1.3	--
Indirect	0.1	--
Other	--	--
Total Unitized Cost (Base Year 1995 \$)	1.8	--

Total O&S Costs \$M	JASSM	N/A
Base Year	--	--
Then Year	--	--



# Defense Acquisition Management Information Retrieval (DAMIR)



## Selected Acquisition Report (SAR)

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



### **JASSM**

As of December 31, 2001

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

USAF; USN

## Responsible Office

### Responsible Office

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 JASSM System Program Office  
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**Phone** 850-882-7321 ext. 2253

**Fax** --

**DSN Phone** 872-7321 ext. 2253

**DSN Fax** --

**Date Assigned** January 2, 2002

## References

### SAR Baseline (Development Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated November 9, 1998

### Approved APB

DAE Approved Acquisition Program Baseline (APB) dated December 21, 2001

## Mission and Description

The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation air-to-surface missile that will enable Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack both fixed and relocatable targets ranging from non-hardened above ground to moderately hardened buried point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM does not replace any existing weapon system.

## Executive Summary

The following Executive Summary covers the two-year period of January 2000 through December 2001.

JASSM successfully transitioned to Low Rate Initial Production (LRIP) with an Acquisition Decision Memorandum signed on December 21, 2001. The program was designated an ACAT IC program. The first LRIP contract was signed on January 14, 2002. We decreased the Lot 1 quantity from 95 to 76 in order to pay for increased costs associated with the Joint Chiefs of Staff (JCS) mandated insertion of a Selective Availability Anti-Spoofing Module (SAASM) Global Positioning System receiver. Lockheed Martin brought on a new vendor in order to incorporate SAASM into Lot 2. The Lot 1 non-SAASM receiver price was dependent on follow-on quantities. Termination of the subcontractor after Lot 1 caused an increased price to the GPS receiver for Lot 1. Lockheed Martin limited the missile unit price increase to only those costs associated with the receiver despite the reduction in Lot 1 quantity from 95 to 76 missiles.

The APB was updated at LRIP to reflect an Air Force production quantity of 3700, consistent with the ORD. The additional 1300 missiles were added to the end of the production program, increasing production from nine to thirteen lots and raising our average unit price.

ACC updated the ORD to include interoperability as a Key Performance Parameter (KPP) per Joint Staff direction. The JASSM top-level C4I Information Exchange Requirements (IERs) were coordinated with the Joint Interoperability Test Command (JITC), the focal point for Interoperability Certification.

The Joint Requirements Oversight Committee delayed completion of the Carrier Operability Key Performance Parameter (KPP) until FOT&E. The Navy is now funded for full aircraft integration/testing on the F/A-18 E/F with \$105 M for FY03 to FY07.

JASSM received a Below Threshold Reprogramming (BTR) of \$150K for long lead procurement of Precise Positioning System/Security Modules (PPS/SMs) required to build the Lot 1 JASSM Anti-Jam GPS Receiver (JAGR) for GPS navigation. The PPS/SM chips are no longer in production and the Tomahawk program, which requires the same chip, purchased all available chips within the United States. We identified available PPS/SM chips previously sold through FMS to Great Britain and bought the chips through an FMS buy back. The number of chips available support Lot 1 production only.

JASSM currently has a \$13M EMD funding shortfall driven by scope growth and a contract overrun. The Air Force committed at the LRIP decision to fund the shortfall and is aggressively identifying sources. The funding shortfall can be worked through BTRs because the shortfall is within JASSM's funding flex. The scope growth includes the Selective Availability Anti-Spoofing Module (SAASM) testing and manufacturability, JASSM seeker focal plane array (FPA) replacement and B-52 integration. Following JCS direction to incorporate SAASM by FY01, JASSM immediately modified the contract for only the design portion of the development in order to gain greater understanding of the remaining effort required to fully incorporate SAASM and to minimize the total cost. The remaining SAASM effort (testing and manufacturability) was defined during the design phase and put on contract. Lockheed had to develop an alternate source for the FPA due to the lower tier supplier backing out of the business arrangement. Lockheed's business arrangement was with Texas Instruments (TI). When Raytheon acquired TI, the government directed them to divest themselves of the TI seeker business. Raytheon pulled all seeker work out of TI except for JASSM. The business base for the FPA manufacturer, DRS, dried up, leaving DRS unable to meet their production price and delivery commitments. JASSM added time between development tests as part of the program restructure to lower program risk. Unanticipated scope growth occurred due to increased fixed costs associated with completion of the B-52 Operational Flight Program. JASSM experienced a contract over-run resulting from the following: parts obsolescence in the mission computer unit (MCU) forced seeker modifications; ongoing quality and qualification issues with the Raytheon Lot 1 JAGR; redesign of the wing and tail wing deployment actuators; engine issues with the fuel isolation valve and specific fuel consumption; and Lockheed manpower not downloading as quickly as planned.

We signed the contract modification incorporating the program restructure in June 2000 following approval by USD

(AT&L). The restructure included EMD and production of Lots 1-5. Ten months were added to EMD due to late subcontractor hardware deliveries. Lockheed Martin agreed to limit the Lot 1-5 production increase to less than 5 percent contingent upon procuring 63 Pre-production Prove Out Test Units (PPOTUs) during EMD. The Air Force added \$4M to JASSM's FY02 budget to offset the FY01 Appropriation cut allowing us to incrementally fund PPOTUs. This action eliminated the funding shortfall to procure all 63 PPOTUs currently on contract. The 63 PPOTUs are required to preserve our FFP production options.

We have successfully completed the all up round (AUR) detonation tests required to get full insensitive munition (IM) certification. JASSM is the first 1000-pound class munition to achieve this without waivers.

We conducted the first Control Test Vehicle (CT-1) mission on September 20, 2000 at the Eglin Test Range to gather airframe aerodynamic data and validate the air data system. CT-1 completed about seven minutes of powered flight before losing thrust and gliding to impact in the Gulf of Mexico. The fuel isolation valve failed to open, and the engine received fuel from only one of the four tanks. This led to a redesign of the fuel isolation valve. CTV-2 successfully completed a 30-minute plus (200 plus miles) flight on November 17, 2000.

Between January and May 2001, we had three successful Developmental Tests (DT), meeting both the low and high altitude ORD range requirements. In July 2001, DT-4 flew its mission profile to the impact area, but during the terminal maneuver the missile failed to arm and did not detonate on impact. A failure board was convened, a problem with the fuze was discovered and corrections made. The target was re-attacked in September with DT-5. The missile failed to detonate (different issue than DT-4). Test data analysis revealed an arming logic failure (safety issue) prevented the fuze from arming. This safety mechanism was redesigned and tested. DT-5R was flown on November 20, 2001, detonating perfectly. The soft target was destroyed, meeting an ORD requirement and confirming the corrections to the JASSM arming logic.

On December 15, 2001, DT-6 was launched against a Defense Intelligence Agency certified hardened target. The JASSM demonstrated exceptional navigation accuracy in the most severe weather conditions encountered to date. A perfect profile was flown, terminal accuracy and warhead detonation resulted in the target being destroyed, and the hardened target ORD requirement met.

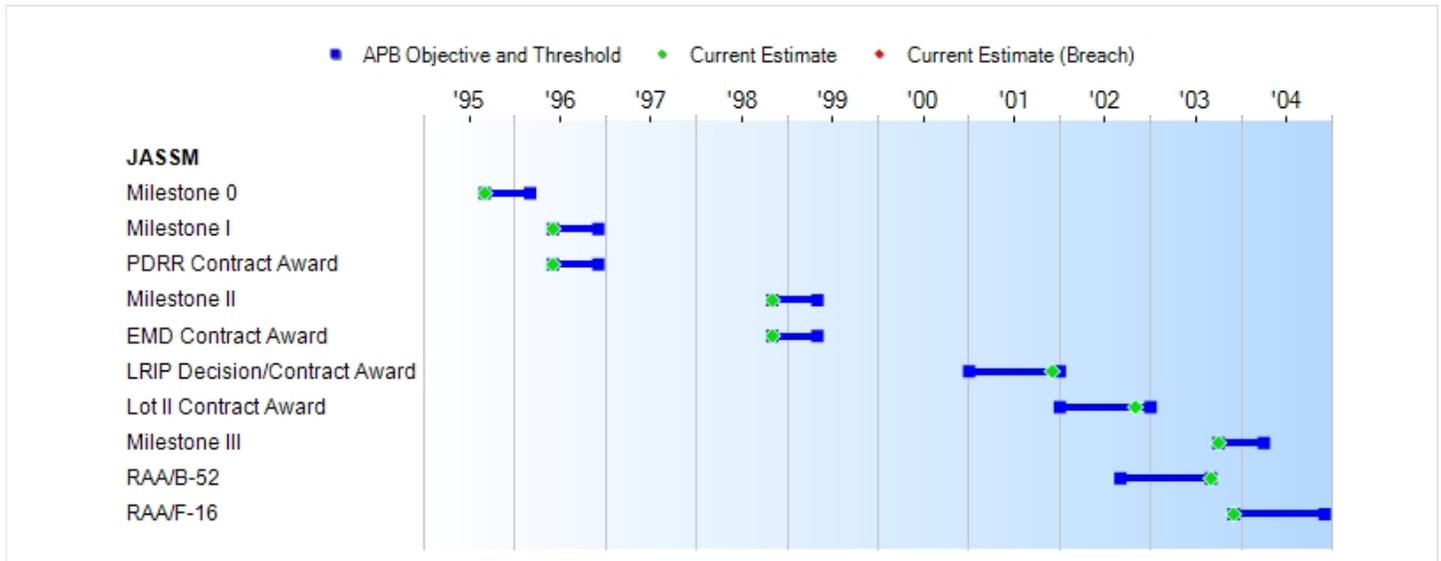
We, in conjunction with AFOTEC, have modified the DT/OT and IOT&E test matrix due to the JCS mandated insertion of a SAASM GPS receiver. We are on schedule to incorporate SAASM into Lot 2. We have split both the DT/OT and IOT&E test phases to adequately test both the non-SAASM and SAASM configured missiles before Milestone III. We increased DT/OT tests from eight to ten in order to accomplish the split test program. The program has funding for the additional testing. The split test phases will have a minimal schedule impact. Milestone III moved from February 2003 to October 2003, but there is no impact to contract awards or deliveries.

### 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 Dev Est	Current APB Development Objective/Threshold		Current Estimate
Milestone 0	SEP 1995	SEP 1995	MAR 1996	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
Milestone III	JUL 2002	OCT 2003	APR 2004	OCT 2003
RAA/B-52	SEP 2002	SEP 2002	SEP 2003	SEP 2003
RAA/F-16	DEC 2003	DEC 2003	DEC 2004	DEC 2003

### Change Explanations

None

### Memo

The Approved Program represents the APB updated at the December 2001 LRIP decision.

Notes: Approved APB thresholds for LRIP Decision/Contract Award, RAA/B-52 and RAA/F-16 are one year, not six months. All Current Estimates are within approved thresholds.

### Acronyms

- PDRR - Program Definition and Risk Reduction
- RAA - Required Assets Available
- RAA for the B-52 is 42 missiles
- RAA for the F-16 is 25 missiles

## **Performance**

Note: Classified and unclassified performance parameters are displayed in the Classified DAMIR.

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

APPN 3600 PE 0207325F (Air Force)  
Joint Air-to-Surface Standoff Missile  
APPN 1319 PE 0604312N (Navy)  
Joint Air-to-Surface Standoff Missile

**Procurement**

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

## Cost and Funding

### Cost Summary

#### Total Acquisition Cost and Quantity

Appropriation	BY1995 \$M				TY \$M		
	SAR Baseline Dev Est	Current APB Development Objective/Threshold	Current Estimate	SAR Baseline Dev Est	Current APB Development Objective	Current Estimate	
RDT&E	771.1	892.5	1026.4	915.2	838.6	979.9	992.9
Procurement	960.0	1623.4	1866.9	1659.1	1209.6	2125.8	2126.7
Flyaway	914.3	--	--	--	--	--	--
Recurring	914.3	--	--	--	--	--	--
Non Recurring	0.0	--	--	0.0	--	--	0.0
Support	45.7	--	--	--	--	--	--
Other Support	45.7	--	--	--	--	--	--
Initial Spares	0.0	--	--	--	--	--	--
MILCON	18.4	18.4	21.2	--	25.1	25.1	--
Acq O&M	--	--	--	--	--	--	--
<b>Total</b>	<b>1749.5</b>	<b>2534.3</b>	<b>N/A</b>	<b>2574.3</b>	<b>2073.3</b>	<b>3130.8</b>	<b>3119.6</b>

Note: Procurement funding does not include Seek Eagle funding of \$11.9M (\$.8M in FY02, \$3.7M in FY03, \$1.5M in FY04, \$3.0M in FY05, and \$2.9M in FY07). Exit criteria for Milestone III were approved at the LRIP decision.

Quantity	SAR Baseline Dev Est	Current APB Development	Current Estimate
RDT&E	69	88	88
Procurement	2400	3700	3700
<b>Total</b>	<b>2469</b>	<b>3788</b>	<b>3788</b>

Note: Total Program Quantity includes 88 fully configured RDT&E units for EMD (82 for the Air Force and 6 for the Navy) LRIP quantities of 76 for Lot 1 and 100 for Lot 2 were approved.

## Funding Summary

### Appropriation and Quantity Summary

#### FY2003 President's Budget / December 2001 SAR (TY\$ M)

Appropriation	Prior	FY2002	FY2003	FY2004	FY2005	FY2006	FY2007	To Complete	Total
RDT&E	749.7	81.1	57.0	34.7	33.5	22.0	14.9	0.0	992.9
Procurement	0.1	43.9	50.5	101.8	145.5	148.6	197.6	1438.7	2126.7
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
PB2003 Total	749.8	125.0	107.5	136.5	179.0	170.6	212.5	1438.7	3119.6
PB2001 Total	768.9	113.7	87.7	110.9	151.4	148.8	197.5	522.5	2101.4
Delta	-19.1	11.3	19.8	25.6	27.6	21.8	15.0	916.2	1018.2

Quantity	Prior	FY2002	FY2003	FY2004	FY2005	FY2006	FY2007	To Complete	Total
Development	0	0	0	0	0	0	0	0	88
Production	0	76	100	250	360	360	292	2262	3700
PB2003 Total	0	76	100	250	360	360	292	2262	3788
PB2001 Total	0	87	92	242	347	360	360	912	2482
Delta	0	-11	8	8	13	0	-68	1350	1306

## Annual Funding By Appropriation

### Annual Funding TY\$

1319 | RDT&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
1998	--	--	--	--	--	--	5.2
1999	--	--	--	--	--	--	1.8
2000	--	--	--	--	--	--	1.9
2001	--	--	--	--	--	--	2.0
2002	--	--	--	--	--	--	1.9
2003	--	--	--	--	--	--	14.9
2004	--	--	--	--	--	--	25.9
2005	--	--	--	--	--	--	27.8
2006	--	--	--	--	--	--	21.8
2007	--	--	--	--	--	--	14.9
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>118.1</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1998	--	--	--	--	--	--	4.9
1999	--	--	--	--	--	--	1.7
2000	--	--	--	--	--	--	1.8
2001	--	--	--	--	--	--	1.8
2002	--	--	--	--	--	--	1.7
2003	--	--	--	--	--	--	13.1
2004	--	--	--	--	--	--	22.4
2005	--	--	--	--	--	--	23.7
2006	--	--	--	--	--	--	18.2
2007	--	--	--	--	--	--	12.2
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>101.5</b>

## Annual Funding TY\$

## 3600 | RDT&amp;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	--	--	--	--	--	--	110.6
2002	--	--	--	--	--	--	79.2
2003	--	--	--	--	--	--	42.1
2004	--	--	--	--	--	--	8.8
2005	--	--	--	--	--	--	5.7
2006	--	--	--	--	--	--	0.2
<b>Subtotal</b>	<b>82</b>	--	--	--	--	--	<b>874.8</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1996	--	--	--	--	--	--	26.7
1997	--	--	--	--	--	--	153.5
1998	--	--	--	--	--	--	155.4
1999	--	--	--	--	--	--	114.3
2000	--	--	--	--	--	--	142.7
2001	--	--	--	--	--	--	100.5
2002	--	--	--	--	--	--	70.8
2003	--	--	--	--	--	--	37.1
2004	--	--	--	--	--	--	7.6
2005	--	--	--	--	--	--	4.9
2006	--	--	--	--	--	--	0.2
<b>Subtotal</b>	<b>82</b>	--	--	--	--	--	<b>813.7</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	--	--	--	--	--	--	0.1
2002	76	--	--	--	--	--	43.9
2003	100	--	--	--	--	--	50.5
2004	250	--	--	--	--	--	101.8
2005	360	--	--	--	--	--	145.5
2006	360	--	--	--	--	--	148.6
2007	292	--	--	--	--	--	197.6
2008	297	--	--	--	--	--	200.1
2009	302	--	--	--	--	--	204.4
2010	363	--	--	--	--	--	242.9
2011	325	--	--	--	--	--	196.1
2012	325	--	--	--	--	--	197.1
2013	325	--	--	--	--	--	198.3
2014	325	--	--	--	--	--	199.8
<b>Subtotal</b>	<b>3700</b>	--	--	--	--	--	<b>2126.7</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
2001	--	--	--	--	--	--	0.1
2002	76	--	--	--	--	--	38.9
2003	100	--	--	--	--	--	44.1
2004	250	--	--	--	--	--	87.3
2005	360	--	--	--	--	--	122.5
2006	360	--	--	--	--	--	122.7
2007	292	--	--	--	--	--	160.1
2008	297	--	--	--	--	--	159.2
2009	302	--	--	--	--	--	159.6
2010	363	--	--	--	--	--	186.1
2011	325	--	--	--	--	--	147.4
2012	325	--	--	--	--	--	145.5
2013	325	--	--	--	--	--	143.6
2014	325	--	--	--	--	--	142.0
<b>Subtotal</b>	<b>3700</b>	--	--	--	--	--	<b>1659.1</b>

Note: Permission to spend \$150K for long lead material in FY01 was received. Required were receiver parts no longer being manufactured for the Lot 1 receivers. The configuration changes in Lot 2.

Procurement funding does not include Seek Eagle funding of \$11.9M. (\$.8M in FY02, \$3.7M in FY03, \$1.5M in FY04, \$3.0M in FY05, and \$2.9M in FY07).

**Cost Quantity Information**

**3020 | Procurement | Missile Procurement, Air Force**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway (Aligned with Quantity) BY 1995 \$M</b>
2001	--	--
2002	76	35.3
2003	100	36.7
2004	250	78.5
2005	360	117.4
2006	360	117.6
2007	292	153.9
2008	297	152.6
2009	302	153.0
2010	363	179.1
2011	325	141.1
2012	325	139.2
2013	325	137.3
2014	325	135.7
<b>Subtotal</b>	<b>3700</b>	<b>1577.4</b>

**Low Rate Initial Production**

None

**Foreign Military Sales**

None.

**Nuclear Cost**

None.

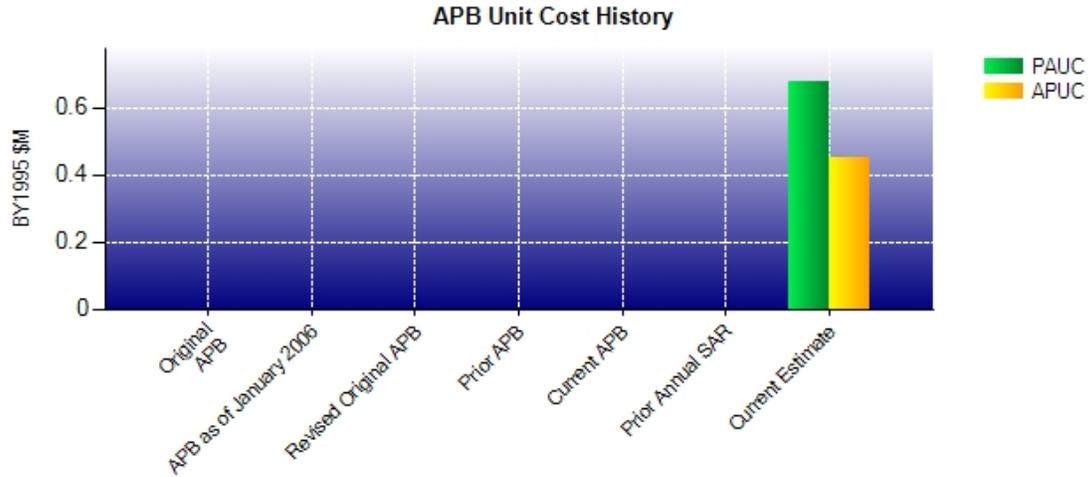
**Unit Cost****Unit Cost Report**

Unit Cost	BY1995 \$M		
	Current UCR Baseline (DEC 2001 APB)	Current Estimate (DEC 2001 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	2534.3	2574.3	
Quantity	3788	3788	
Unit Cost	0.669	0.680	+1.64
Average Procurement Unit Cost (APUC)			
Cost	1623.4	1659.1	
Quantity	3700	3700	
Unit Cost	0.439	0.448	+2.05

Unit Cost	BY1995 \$M		
	Original UCR Baseline	Current Estimate (DEC 2001 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost		2574.3	
Quantity		3788	
Unit Cost		0.680	+0.00
Average Procurement Unit Cost (APUC)			
Cost		1659.1	
Quantity		3700	
Unit Cost		0.448	+0.00

The increase in the Base Year 1995 unit prices is driven by the January 2002 inflation rates, which are lower than the 2001 rates. JASSM has Then Year firm fixed prices for their first five lots and the the remaining production lots prices are the result of price based acquisition estimating. The number of constant dollars required increases as inflation decreases while the current dollars remain the same.

### Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	N/A	N/A	N/A	N/A	N/A
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	N/A	N/A	N/A	N/A	N/A
Current APB	N/A	N/A	N/A	N/A	N/A
Prior Annual SAR	N/A	N/A	N/A	N/A	N/A
Current Estimate	DEC 2001	0.680	0.448	0.824	0.575

### SAR Unit Cost History

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

Initial PAUC Dev Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.840	-0.016	-0.100	0.057	-0.015	0.045	0.000	0.013	-0.016	0.824

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

Initial APUC Dev Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.504	-0.009	0.016	0.032	0.000	0.019	0.000	0.013	0.071	0.575

## 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	N/A	JUN 1996
Milestone II	JUN 1998	NOV 1998	N/A	NOV 1998
Milestone III	APR 2001	JUL 2002	N/A	OCT 2003
IOC	JUN 2001	SEP 2002	N/A	SEP 2003
Total Cost (TY \$M)	811.3	2073.3	N/A	3119.6
Total Quantity	44	2469	N/A	3788
Prog. Acq. Unit Cost (PAUC)	18.439	0.840	N/A	0.824

**Cost Variance**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	838.6	1209.6	25.1	2073.3
Previous Changes				
Economic	-32.8	-24.7	0.0	-57.5
Quantity	+16.2	0.0	0.0	+16.2
Schedule	+96.9	+55.9	0.0	+152.8
Engineering	-56.3	0.0	0.0	-56.3
Estimating	+29.4	-43.8	-25.1	-39.5
Other	0.0	0.0	0.0	0.0
Support	0.0	+12.4	0.0	+12.4
Subtotal	+53.4	-0.2	-25.1	+28.1
Current Changes				
Economic	+6.0	-9.0	--	-3.0
Quantity	--	+712.6	--	+712.6
Schedule	--	+62.6	--	+62.6
Engineering	--	--	--	--
Estimating	+94.9	+115.3	--	+210.2
Other	--	--	--	--
Support	--	+35.8	--	+35.8
Subtotal	+100.9	+917.3	--	+1018.2
Total Changes	+154.3	+917.1	-25.1	+1046.3
CE - Cost Variance	992.9	2126.7	--	3119.6
CE - Cost & Funding	992.9	2126.7	--	3119.6

<b>Summary Base Year 1995 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	771.1	960.0	18.4	1749.5
Previous Changes				
Economic	0.0	0.0	0.0	0.0
Quantity	+14.7	0.0	0.0	+14.7
Schedule	+87.6	+24.5	0.0	+112.1
Engineering	-47.4	0.0	0.0	-47.4
Estimating	+6.5	-19.1	-18.4	-31.0
Other	0.0	0.0	0.0	0.0
Support	0.0	+9.3	0.0	+9.3
Subtotal	+61.4	+14.7	-18.4	+57.7
Current Changes				
Economic	--	--	--	--
Quantity	--	+489.0	--	+489.0
Schedule	--	+64.1	--	+64.1
Engineering	--	--	--	--
Estimating	+82.7	+104.6	--	+187.3
Other	--	--	--	--
Support	--	+26.7	--	+26.7
Subtotal	+82.7	+684.4	--	+767.1
Total Changes	+144.1	+699.1	-18.4	+824.8
CE - Cost Variance	915.2	1659.1	--	2574.3
CE - Cost & Funding	915.2	1659.1	--	2574.3

Previous Estimate: December 1999

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	+2.7
Economic adjustment for negative program change. (Economic)	N/A	+3.3
Addition of Navy funds to integrate on the F/A-18 E/F. (Estimating)	+84.8	+97.0
Adjustment for Current and Prior Inflation. (Estimating)	-2.1	-2.1
RDT&E Subtotal	+82.7	+100.9

Procurement	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	-11.5
Economic adjustment for negative program change. (Economic)	N/A	+2.5
Revised approved estimate at LRIP decision. (Estimating)	+104.6	+115.3
The quantity profile for the first nine lots was revised. The quantities changed from 87, 92, 242, 347, 360, 360, 360, 360, 192 to 76, 100, 250, 360, 360, 292, 297, 302, 363. (Schedule)	+64.1	+62.6
The JASSM quantity requirement increased from 2400 to 3700 at the LRIP decision. (Quantity) (QR)	+489.0	+712.6
Contractor support for four additional years of production (non-flyaway). (Support)	+26.7	+35.8
Procurement Subtotal	+684.4	+917.3

(QR) Quantity Related

## Contracts

Appropriation: RDT&E	
Contract Name	JASSM EMD
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08626-96-C-0002, CPAF
Award Date	November 13, 1998
Definitization Date	November 13, 1998

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
172.5	N/A	0	381.0	N/A	0	419.0	432.4

	Cost Variance	Schedule Variance
Previous Cumulative Variances	-7.9	-9.3
Cumulative Variances To Date (11/25/2001)	-13.1	-5.4
Net Change	-5.2	+3.9

### Cost And Schedule Variance Explanations

The improved schedule variance is due to improved supplier hardware deliveries and maintaining an aggressive flight test schedule despite problems. The unfavorable cost variance is due to contract overrun driven by the Missile Control Unit (MCU), the JASSM Anti-Jam GPS Receiver (JAGR) and the actuators. Also, Lockheed manloading was not reduced as planned.

### Contract Comments

Both scope growth and overrun account for the difference of \$208.5 million between the Initial Contract Price and the Current Contract Price. Included in the scope was the previously reported EMD six-month extension at the Milestone II decision, the addition of Selective Availability Anti-Spoofing Module (SAASM), thermal battery upgrade, development of low cost Dummy Air Training Missiles (DATMs) and GPS characterization. Cost growth has been experienced in SAASM integration, JASSM seeker Focal Plane Array (FPA) replacement and B-52 Operational Flight Program (OFP). An extension of ten months due to late hardware deliveries and the finalization of the production configuration occurred in 2000. This schedule extension caused increased costs in aircraft integration and planned personnel attrition rates. Increased award fee to incentivize the contractor to meet schedule contributed to the increased price at completion.

**Deliveries and Expenditures**

<b>Deliveries To Date</b>	<b>Plan</b>	<b>Actual</b>	<b>Total Quantity</b>	<b>Percent Delivered</b>
Development	10	10	88	11.36%
Production	0	0	3700	0.00%
<b>Total Program Quantities Delivered</b>	<b>10</b>	<b>10</b>	<b>3788</b>	<b>0.26%</b>

**Expenditures and Appropriations (TY \$M)**

Total Acquisition Cost	3119.6	Years Appropriated	7
Expenditures To Date	647.0	Percent Years Appropriated	36.84%
Percent Expended	20.74%	Appropriated to Date	874.8
Total Funding Years	19	Percent Appropriated	28.04%

## Operating and Support Cost

### Assumptions and Ground Rules

The JASSM O&S estimate includes only Air Force requirements. The Navy requirements are not yet defined. 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 bumper-to-bumper warranty is assumed with a 20-year shelf life and the subsequent demilitarization of the weapon. The JASSM program office will function as the ALC. This estimate was prepared May 2001 for the LRIP program review.

There is no antecedent system for JASSM.

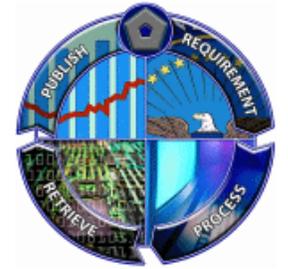
#### Costs BY1995 \$K

Cost Element	JASSM Per JASSM	N/A
Mission Pay & Allowance	0.0	--
Unit Level Consumption	0.0	--
Intermediate Maintenance	0.0	--
Depot Maintenance	0.0	--
Contractor Support	2.0	--
Sustaining Support	0.0	--
Indirect	0.0	--
Other	--	--
Total Unitized Cost (Base Year 1995 \$)	2.0	--

Total O&S Costs \$M	JASSM	N/A
Base Year	246.0	--
Then Year	397.4	--



# Defense Acquisition Management Information Retrieval (DAMIR)



## Selected Acquisition Report (SAR)

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



### **JASSM**

As of September 30, 2002

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

USAF; USN

## Responsible Office

### Responsible Office

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 AAC/YV  
 JASSM System Program Office  
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 Eglin AFB, FL 32542-6807  
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<b>DSN Phone</b>	872-4785 ext. 3204
<b>DSN Fax</b>	--
<b>Date Assigned</b>	June 16, 2002

## References

### SAR Baseline (Development Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated November 9, 1998

### Approved APB

DAE Approved Acquisition Program Baseline (APB) dated December 21, 2001

## Mission and Description

The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation air-to-surface missile that will enable Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack both fixed and relocatable targets ranging from non-hardened above ground to moderately hardened buried point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM does not replace any existing weapon system.

## Executive Summary

This quarterly SAR is being provided because there is a slip to the estimated F-16 Required Assets Available (RAA) milestone of six months or more compared to the December 2001 annual SAR. There is no APB breach. We have updated our program manager's estimate for the F-16 RAA to reflect a slip to estimated release of the F-16 M3+ Operational Flight Profile (OFFP) tape. At the time of the 2001 annual SAR, we estimated release of the M3+ tape in September 2003 with F-16 RAA in December 2003. Since then, the F-16 program office and Lockheed have reviewed the issues, worked a path forward and modified the M3 contract in July 2002. Our current program manager's estimate is that given an M3+ F-16 tape is released in June 2004, RAA will occur in September 2004. This RAA remains three months ahead of the APB threshold date of December 2004.

The Navy funding for full aircraft integration/testing on the F/A-18 E/F increased from \$105M to \$135.5M from FY03 to FY07. JASSM received the \$13.1M for the required RDT&E funding to complete development requested at the LRIP decision.

On April 4, 2002, a development test vehicle (DT-7) was successfully flown at White Sands Missile Range (WSMR) on an F-16 against a hardened target. The weapon flew through eight planned way points and initiated its terminal maneuver. Exceptional seeker accuracy was demonstrated and the missile warhead detonated after penetrating the first layer of the hardened target. The success of DT-7 ended the developmental testing for the Lot 1 missile configuration.

JASSM entered the Initial Operational Test and Evaluation (IOT&E) phase of testing on April 30, 2002. The successful launch of the first IOT&E vehicle (OT-1) on June 19 at WSMR marked the first of six missions planned by the operational testers.

Lockheed successfully launched the first of three developmental missiles in the Block 1A JASSM configuration on July 17, off an F-16 at WSMR. DT-9A, an inert Lot 2 configuration missile flew through eight planned turn points, armed, and accurately impacted the container express (CONEX) target scene. The new JASSM anti-jam GPS receiver with a selective availability anti-spoofing module (SAASM) (JAGR-S), a redesigned seeker and mission control unit (MCU) and cold gas wing deployment actuators all functioned as planned.

AFOTEC declared an IOT&E pause test on July 19 following built in test (BIT) issues during ground alert testing at Barksdale Air Force Base. Those missiles sat uncovered for several hours in heavy rains during load preparations. The missiles were returned to Lockheed for failure analysis. Since the JASSM is not designed to be a sealed missile, water accumulated in the tail root, causing a short of squibs and thus a failed BIT. Lockheed was able to replicate the failure, develop and prove out a fix. Lockheed has incorporated potting all squib connectors in the manufacturing process to eliminate water intrusion. Lockheed and the Joint Program Office briefed test results of the fix prove-out to AFOTEC on August 12. AFOTEC ended the pause test the same day.

### Threshold Breaches

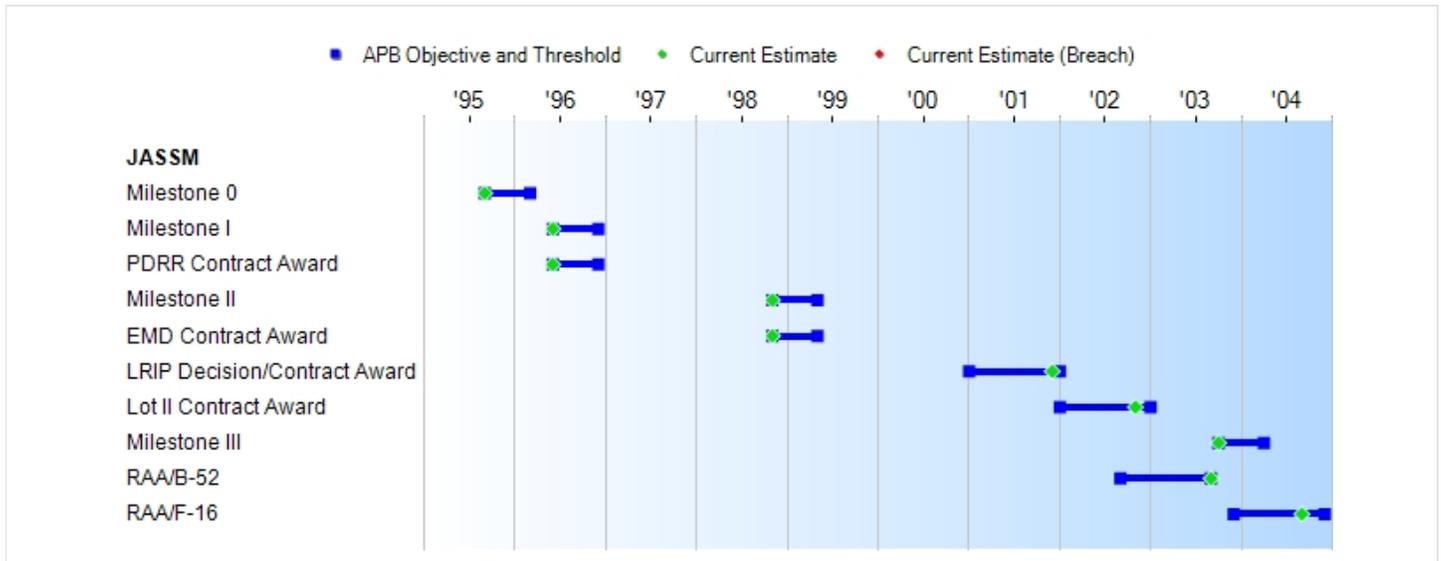
APB Breaches		
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- Schedule
- Performance
- Cost
  - RDT&E
  - Procurement
  - MILCON
  - Acq O&M
- Unit Cost
  - PAUC
  - APUC

Nunn-McCurdy Breaches		
-----------------------	--	--

- Current UCR Baseline**
  - PAUC None
  - APUC None
- Original UCR Baseline**
  - PAUC None
  - APUC None

### Schedule



Milestones	SAR Baseline Dev Est	Current APB Development Objective/Threshold		Current Estimate
Milestone 0	SEP 1995	SEP 1995	MAR 1996	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
Milestone III	JUL 2002	OCT 2003	APR 2004	OCT 2003
RAA/B-52	SEP 2002	SEP 2002	SEP 2003	SEP 2003
RAA/F-16	DEC 2003	DEC 2003	DEC 2004	SEP 2004

### Change Explanations

None

### Memo

The Approved Program represents the APB updated at the December 2001 LRIP decision.

Notes: Approved APB thresholds for LRIP Decision/Contract Award, RAA/B-52 and RAA/F-16 are one year, not six months. All Current Estimates are within approved thresholds.

### Acronyms

- PDRR - Program Definition and Risk Reduction
- RAA - Required Assets Available
- RAA for the B-52 is 42 missiles
- RAA for the F-16 is 25 missiles

## **Performance**

Note: Classified and unclassified performance parameters are displayed in the Classified DAMIR.

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

APPN 3600 PE 0207325F (Air Force)  
Joint Air-to-Surface Standoff Missile  
APPN 1319 PE 0604312N (Navy)  
Joint Air-to-Surface Standoff Missile

**Procurement**

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

## Cost and Funding

### Cost Summary

#### Total Acquisition Cost and Quantity

Appropriation	BY1995 \$M				TY \$M		
	SAR Baseline Dev Est	Current APB Development Objective/Threshold	Current Estimate		SAR Baseline Dev Est	Current APB Development Objective	Current Estimate
RDT&E	771.1	892.5	1026.4	951.5	838.6	979.9	1036.5
Procurement	960.0	1623.4	1866.9	1659.1	1209.6	2125.8	2126.7
Flyaway	914.3	--	--	--	--	--	--
Recurring	914.3	--	--	--	--	--	--
Non Recurring	0.0	--	--	0.0	--	--	0.0
Support	45.7	--	--	--	--	--	--
Other Support	45.7	--	--	--	--	--	--
Initial Spares	0.0	--	--	--	--	--	--
MILCON	18.4	18.4	21.2	--	25.1	25.1	--
Acq O&M	--	--	--	--	--	--	--
<b>Total</b>	<b>1749.5</b>	<b>2534.3</b>	<b>N/A</b>	<b>2610.6</b>	<b>2073.3</b>	<b>3130.8</b>	<b>3163.2</b>

Note: Procurement funding does not include Seek Eagle funding of \$11.9M (\$.7M in FY02, \$3.7M in FY03, \$1.5M in FY04, \$3.0M in FY05, and \$2.9M in FY07). Exit criteria for Milestone III were approved at the LRIP decision.

176 missiles were approved for low rate initial production on December 21, 2001. This is less than ten percent of the total planned procurement.

Quantity	SAR Baseline Dev Est	Current APB Development	Current Estimate
RDT&E	69	88	88
Procurement	2400	3700	3700
<b>Total</b>	<b>2469</b>	<b>3788</b>	<b>3788</b>

Note: Total Program Quantity includes 88 fully configured RDT&E units for EMD (82 for the Air Force and six for the Navy) An additional six units are planned for JASSM Extended Range development.

## Funding Summary

### Appropriation and Quantity Summary

#### SEP 2002 Exception SAR (TY \$M)

Appropriation	Prior	FY2002	FY2003	FY2004	FY2005	FY2006	FY2007	To Complete	Total
RDT&E	759.1	85.1	57.0	34.6	33.4	22.0	14.8	30.5	1036.5
Procurement	0.1	43.9	50.5	101.8	145.5	148.6	197.6	1438.7	2126.7
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
SEP 2002 Total	759.2	129.0	107.5	136.4	178.9	170.6	212.4	1469.2	3163.2
PB2003 Total	749.8	125.0	107.5	136.5	179.0	170.6	212.5	1438.7	3119.6
Delta	9.4	4.0	0.0	-0.1	-0.1	0.0	-0.1	30.5	43.6

Quantity	Prior	FY2002	FY2003	FY2004	FY2005	FY2006	FY2007	To Complete	Total
Development	0	0	0	0	0	0	0	0	88
Production	0	76	100	250	360	360	292	2262	3700
SEP 2002 Total	0	76	100	250	360	360	292	2262	3788
PB2003 Total	0	76	100	250	360	360	292	2262	3788
Delta	0	0	0	0	0	0	0	0	0

#### FY2003 President's Budget / December 2001 SAR (TY\$ M)

Appropriation	Prior	FY2002	FY2003	FY2004	FY2005	FY2006	FY2007	To Complete	Total
RDT&E	749.7	81.1	57.0	34.7	33.5	22.0	14.9	0.0	992.9
Procurement	0.1	43.9	50.5	101.8	145.5	148.6	197.6	1438.7	2126.7
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
PB2003 Total	749.8	125.0	107.5	136.5	179.0	170.6	212.5	1438.7	3119.6
PB2001 Total	768.9	113.7	87.7	110.9	151.4	148.8	197.5	522.5	2101.4
Delta	-19.1	11.3	19.8	25.6	27.6	21.8	15.0	916.2	1018.2

Quantity	Prior	FY2002	FY2003	FY2004	FY2005	FY2006	FY2007	To Complete	Total
Development	0	0	0	0	0	0	0	0	88
Production	0	76	100	250	360	360	292	2262	3700
PB2003 Total	0	76	100	250	360	360	292	2262	3788
PB2001 Total	0	87	92	242	347	360	360	912	2482
Delta	0	-11	8	8	13	0	-68	1350	1306

## Annual Funding By Appropriation

### Annual Funding TY\$

1319 | RDT&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
1998	--	--	--	--	--	--	5.2
1999	--	--	--	--	--	--	1.8
2000	--	--	--	--	--	--	3.4
2001	--	--	--	--	--	--	2.0
2002	--	--	--	--	--	--	1.9
2003	--	--	--	--	--	--	14.9
2004	--	--	--	--	--	--	25.8
2005	--	--	--	--	--	--	27.7
2006	--	--	--	--	--	--	21.8
2007	--	--	--	--	--	--	14.8
2008	--	--	--	--	--	--	15.1
2009	--	--	--	--	--	--	15.4
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>149.8</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1998	--	--	--	--	--	--	4.9
1999	--	--	--	--	--	--	1.7
2000	--	--	--	--	--	--	3.1
2001	--	--	--	--	--	--	1.8
2002	--	--	--	--	--	--	1.7
2003	--	--	--	--	--	--	13.1
2004	--	--	--	--	--	--	22.4
2005	--	--	--	--	--	--	23.6
2006	--	--	--	--	--	--	18.2
2007	--	--	--	--	--	--	12.1
2008	--	--	--	--	--	--	12.2
2009	--	--	--	--	--	--	12.2
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>127.0</b>

## Annual Funding TY\$

## 3600 | RDT&amp;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	--	--	--	--	--	--	118.5
2002	--	--	--	--	--	--	83.2
2003	--	--	--	--	--	--	42.1
2004	--	--	--	--	--	--	8.8
2005	--	--	--	--	--	--	5.7
2006	--	--	--	--	--	--	0.2
<b>Subtotal</b>	<b>82</b>	--	--	--	--	--	<b>886.7</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1996	--	--	--	--	--	--	26.7
1997	--	--	--	--	--	--	153.5
1998	--	--	--	--	--	--	155.4
1999	--	--	--	--	--	--	114.3
2000	--	--	--	--	--	--	142.7
2001	--	--	--	--	--	--	107.7
2002	--	--	--	--	--	--	74.4
2003	--	--	--	--	--	--	37.1
2004	--	--	--	--	--	--	7.6
2005	--	--	--	--	--	--	4.9
2006	--	--	--	--	--	--	0.2
<b>Subtotal</b>	<b>82</b>	--	--	--	--	--	<b>824.5</b>

## Annual Funding TY\$

## 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
2001	--	--	--	--	--	--	0.1
2002	76	--	--	--	--	--	43.9
2003	100	--	--	--	--	--	50.5
2004	250	--	--	--	--	--	101.8
2005	360	--	--	--	--	--	145.5
2006	360	--	--	--	--	--	148.6
2007	292	--	--	--	--	--	197.6
2008	297	--	--	--	--	--	200.1
2009	302	--	--	--	--	--	204.4
2010	363	--	--	--	--	--	242.9
2011	325	--	--	--	--	--	196.1
2012	325	--	--	--	--	--	197.1
2013	325	--	--	--	--	--	198.3
2014	325	--	--	--	--	--	199.8
<b>Subtotal</b>	<b>3700</b>	--	--	--	--	--	<b>2126.7</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
2001	--	--	--	--	--	--	0.1
2002	76	--	--	--	--	--	38.9
2003	100	--	--	--	--	--	44.1
2004	250	--	--	--	--	--	87.3
2005	360	--	--	--	--	--	122.5
2006	360	--	--	--	--	--	122.7
2007	292	--	--	--	--	--	160.1
2008	297	--	--	--	--	--	159.2
2009	302	--	--	--	--	--	159.6
2010	363	--	--	--	--	--	186.1
2011	325	--	--	--	--	--	147.4
2012	325	--	--	--	--	--	145.5
2013	325	--	--	--	--	--	143.6
2014	325	--	--	--	--	--	142.0
<b>Subtotal</b>	<b>3700</b>	--	--	--	--	--	<b>1659.1</b>

Note: Permission to spend \$150K for long lead material in FY01 was received. Required were receiver parts no longer being manufactured for the Lot 1 receivers. The configuration changes in Lot 2.

Procurement funding does not include Seek Eagle funding of \$11.9M. (\$.7M in FY02, \$3.7M in FY03, \$1.5M in FY04, \$3.0M in FY05, and \$2.9M in FY07).

**Cost Quantity Information**

**3020 | Procurement | Missile Procurement, Air Force**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway (Aligned with Quantity) BY 1995 \$M</b>
2001	--	--
2002	76	35.3
2003	100	36.7
2004	250	78.5
2005	360	117.4
2006	360	117.6
2007	292	153.9
2008	297	152.6
2009	302	153.0
2010	363	179.1
2011	325	141.1
2012	325	139.2
2013	325	137.3
2014	325	135.7
<b>Subtotal</b>	<b>3700</b>	<b>1577.4</b>

**Low Rate Initial Production**

None

**Foreign Military Sales**

None.

**Nuclear Cost**

None.

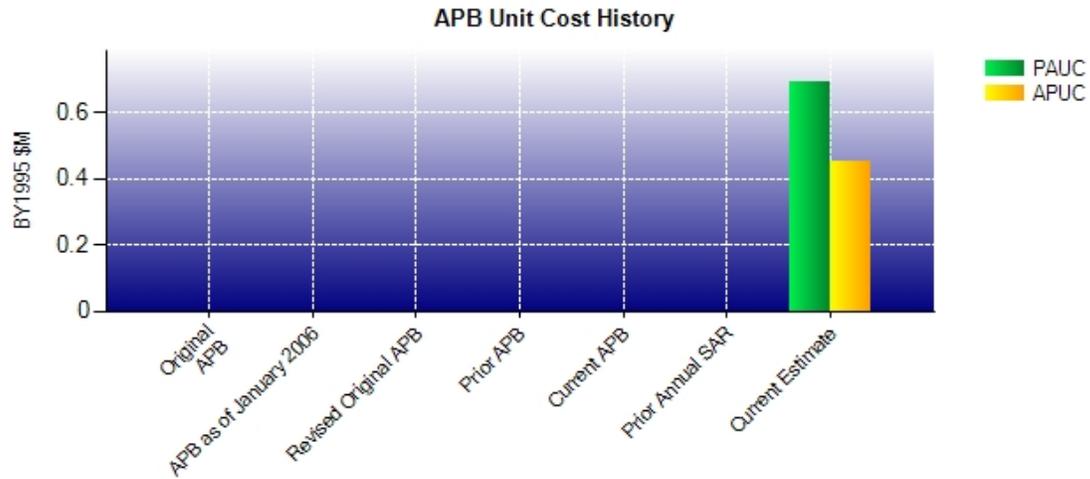
**Unit Cost****Unit Cost Report**

Unit Cost	BY1995 \$M		
	Current UCR Baseline (DEC 2001 APB)	Current Estimate (SEP 2002 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	2534.3	2610.6	
Quantity	3788	3788	
Unit Cost	0.669	0.689	+2.99
Average Procurement Unit Cost (APUC)			
Cost	1623.4	1659.1	
Quantity	3700	3700	
Unit Cost	0.439	0.448	+2.05

Unit Cost	BY1995 \$M		
	Original UCR Baseline	Current Estimate (SEP 2002 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost		2610.6	
Quantity		3788	
Unit Cost		0.689	+0.00
Average Procurement Unit Cost (APUC)			
Cost		1659.1	
Quantity		3700	
Unit Cost		0.448	+0.00

The increase in the Base Year 1995 unit prices is driven by the January 2002 inflation rates, which are lower than the 2001 rates. JASSM has Then Year firm fixed prices for their first five lots and the remaining production lots prices are the result of price based acquisition estimating. The number of constant dollars required increases as inflation decreases while the current dollars remain the same.

### Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	N/A	N/A	N/A	N/A	N/A
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	N/A	N/A	N/A	N/A	N/A
Current APB	N/A	N/A	N/A	N/A	N/A
Prior Annual SAR	N/A	N/A	N/A	N/A	N/A
Current Estimate	SEP 2002	0.689	0.448	0.835	0.575

### SAR Unit Cost History

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

Initial PAUC Dev Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.840	-0.016	-0.101	0.057	-0.015	0.057	0.000	0.013	-0.005	0.835

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

Initial APUC Dev Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.504	-0.009	0.016	0.032	0.000	0.019	0.000	0.013	0.071	0.575

**SAR Baseline History**

<b>Item/Event</b>	<b>SAR Planning Estimate (PE)</b>	<b>SAR Development Estimate (DE)</b>	<b>SAR Production Estimate (PdE)</b>	<b>Current Estimate</b>
Milestone I	JUN 1996	JUN 1996	N/A	JUN 1996
Milestone II	JUN 1998	NOV 1998	N/A	NOV 1998
Milestone III	APR 2001	JUL 2002	N/A	OCT 2003
IOC	JUN 2001	SEP 2002	N/A	SEP 2003
Total Cost (TY \$M)	811.3	2073.3	N/A	3163.2
Total Quantity	44	2469	N/A	3788
Prog. Acq. Unit Cost (PAUC)	18.439	0.840	N/A	0.835

**Cost Variance**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	838.6	1209.6	25.1	2073.3
Previous Changes				
Economic	-26.8	-33.7	0.0	-60.5
Quantity	+16.2	+712.6	0.0	+728.8
Schedule	+96.9	+118.5	0.0	+215.4
Engineering	-56.3	0.0	0.0	-56.3
Estimating	+124.3	+71.5	-25.1	+170.7
Other	0.0	0.0	0.0	0.0
Support	0.0	+48.2	0.0	+48.2
Subtotal	+154.3	+917.1	-25.1	+1046.3
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	+43.6	--	--	+43.6
Other	--	--	--	--
Support	--	--	--	--
Subtotal	+43.6	--	--	+43.6
Total Changes	+197.9	+917.1	-25.1	+1089.9
CE - Cost Variance	1036.5	2126.7	--	3163.2
CE - Cost & Funding	1036.5	2126.7	--	3163.2

<b>Summary Base Year 1995 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	771.1	960.0	18.4	1749.5
Previous Changes				
Economic	0.0	0.0	0.0	0.0
Quantity	+14.7	+489.0	0.0	+503.7
Schedule	+87.6	+88.6	0.0	+176.2
Engineering	-47.4	0.0	0.0	-47.4
Estimating	+89.2	+85.5	-18.4	+156.3
Other	0.0	0.0	0.0	0.0
Support	0.0	+36.0	0.0	+36.0
Subtotal	+144.1	+699.1	-18.4	+824.8
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	+36.3	--	--	+36.3
Other	--	--	--	--
Support	--	--	--	--
Subtotal	+36.3	--	--	+36.3
Total Changes	+180.4	+699.1	-18.4	+861.1
CE - Cost Variance	951.5	1659.1	--	2610.6
CE - Cost & Funding	951.5	1659.1	--	2610.6

Previous Estimate: December 2001

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Additional Navy funds to integrate the F/A-1 8 E/F. (Estimating)	+25.4	+30.5
R&D shortfall funded. This includes testing and manufacturability of the Selective Availability Anti-Spoofing Module (SAASM), developing an alternate source for the JASSM seeker focal plane array and completion of the B-52 production operational flight program (OFP). (Estimating)	+10.9	+13.1
RDT&E Subtotal	+36.3	+43.6

## Contracts

### General Contract Memo

The \$6.7M difference between the estimated price at completion for the contractor and the program manger represents planned scope increases that are not yet on contract.

### Appropriation: RDT&E

Contract Name	<b>JASSM EMD</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08626-96-C-0002, CPAF
Award Date	November 13, 1998
Definitization Date	November 13, 1998

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
172.0	N/A	0	404.0	N/A	0	419.8	426.5

	Cost Variance	Schedule Variance
Previous Cumulative Variances	-13.1	-5.4
Cumulative Variances To Date (7/28/2002)	-16.3	-3.6
Net Change	-3.2	+1.8

### Cost And Schedule Variance Explanations

The improved schedule variance is due to completing engine delivery which allowed Teledyne to submit a final invoice and take earned value for the engines. The unfavorable cost variance is due to contract overrun driven by the Missile Control Unit (MCU) redesign, additional work on chassis redesign, rework and retrofit driven by fuze quality problems and returned hardware from the field. Also, Lockheed manloading was not reduced as planned due to fuze and test instrumentation issues.

### Contract Comments

The increase of \$23.5M on the contract since the previous SAR is due primarily to an increase in EMD scope. This includes additional fuze and reliability work, development of low cost load training missiles, additional test and scope increases for the B1-B and B2.

**Appropriation: RDT&E**

Contract Name **JASSM LRIP**  
 Contractor Lockheed Martin  
 Contractor Location Orlando , FL 32819  
 Contract Number, Type F08635-02-C-0026, FFP  
 Award Date January 14, 2002  
 Definitization Date January 14, 2002

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
36.2	N/A	76	36.2	N/A	76	36.2	36.2

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

None

**Deliveries and Expenditures**

<b>Deliveries To Date</b>	<b>Plan</b>	<b>Actual</b>	<b>Total Quantity</b>	<b>Percent Delivered</b>
Development	35	35	88	39.77%
Production	0	0	3700	0.00%
<b>Total Program Quantities Delivered</b>	<b>35</b>	<b>35</b>	<b>3788</b>	<b>0.92%</b>

**Expenditures and Appropriations (TY \$M)**

Total Acquisition Cost	3163.2	Years Appropriated	7
Expenditures To Date	647.0	Percent Years Appropriated	36.84%
Percent Expended	20.45%	Appropriated to Date	888.2
Total Funding Years	19	Percent Appropriated	28.08%

## Operating and Support Cost

### Assumptions and Ground Rules

The JASSM O&S estimate includes only Air Force requirements. The Navy requirements are not yet defined. 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 bumper-to-bumper warranty is assumed with a 20-year shelf life and the subsequent demilitarization of the weapon. The JASSM program office will function as the ALC. This estimate was prepared May 2001 for the LRIP program review.

There is no antecedent system for JASSM.

#### Costs BY1995 \$K

Cost Element	JASSM Per JASSM	N/A
Mission Pay & Allowance	0.0	--
Unit Level Consumption	0.0	--
Intermediate Maintenance	0.0	--
Depot Maintenance	0.0	--
Contractor Support	2.0	--
Sustaining Support	0.0	--
Indirect	0.0	--
Other	--	--
Total Unitized Cost (Base Year 1995 \$)	2.0	--

Total O&S Costs \$M	JASSM	N/A
Base Year	246.0	--
Then Year	397.4	--



# Defense Acquisition Management Information Retrieval (DAMIR)



## Selected Acquisition Report (SAR)

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



### **JASSM**

As of December 31, 2002

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

USAF; USN

## Responsible Office

### Responsible Office

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<b>Date Assigned</b>	June 16, 2002

## References

### SAR Baseline (Development Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated November 9, 1998

### Approved APB

CAE Approved Acquisition Program Baseline (APB) dated February 10, 2003

## Mission and Description

The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation air-to-surface missile that will enable Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack both fixed and relocatable targets ranging from non-hardened above ground to moderately hardened buried point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM Extended Range (JASSM-ER) increased standoff range will allow the attack of high value targets with precision, deeper into enemy territory, while minimizing the threat to the launch aircraft. The JASSM does not replace any existing weapon system.

## Executive Summary

The JASSM test program was put on hold to investigate two free flight anomalies. The PEO decertified the system for free flight test on October 24, 2002. An Independent Review Team (IRT) was established to ensure that JASSM missiles are ready to resume testing. The IRT verified that we are ready to proceed with testing on January 9, 2003. We estimate we will be back in free flight testing in February 2003.

The Air Force Operational Test and Evaluation Center (AFOTEC) launched OT-3 on August 29 at the White Sands Missile Range (WSMR). The second of six missions planned by the operational testers was a combined test with the Defense Threat Reduction Agency. The JASSM was launched off an operational B-52 from Barksdale AFB, LA, as part of a 20 hour long-range bomber sortie. Released out of the planned launch zone, but within range, the missile began to fly an internally recalculated path to the target. As the missile turned to get on course, it approached the range boundary. WSMR safety terminated the flight.

The second of three planned developmental missiles for the Block 1A JASSM configuration, DT-10A, was released from an F-16 at WSMR on September 13. The inert Lot 2 missile flew through five turn points which included a GPS jamming area, armed and impacted the designated target as planned. All Block 1A components functioned properly. This marked the last developmental release from an F-16 aircraft.

AFOTEC flew a repeat of the OT-3 mission, OT-3R, on October 10. The JASSM was again launched from an operational B-52. The missile flew the planned route and penetrated the target as predicted, but the warhead failed to detonate. (The methodology employed on this target was an experimental effort to test warhead capability beyond its design limits.) Recovery efforts have been successful and the fuze and warhead returned to Lockheed for failure analysis. Analysis showed the fuze failed due to a very high side load. The fuze was armed as it struck the top of the target and was not armed once it passed through the floor and came to rest in soil. Based on the assessment, the failure is not considered an issue for the JASSM program, which has a requirement to detonate only in the target volume for this target type and not under the floor as attempted in the mission.

The planned final developmental missile for the Block 1A JASSM configuration, DT-11A, was released from a B-52 at WSMR on October 24. Shortly after safely separating from the launch aircraft, the missile departed controlled flight and impacted on the range. Missile hardware was recovered and failure analysis is concentrating on the wing elevon actuator. Several mechanical changes within the actuator have been identified. Prove-out of proposed changes are underway.

As a direct result of these two flight anomalies, Ms. Judy Stokley, Air Force Program Executive Officer for Weapons (AFPEO/WP), decertified JASSM for any further operational testing until a thorough review of the program was conducted and the root cause of the failures was determined and fixes were implemented.

Three technical and programmatic reviews were conducted from December into early January culminating in an Independent Review chaired by Lt Gen (ret) Tom Ferguson. Gen Ferguson's team recommended entry back into testing. As a result, the test program is back on track with JASSM's last developmental test flight, DT-12A, scheduled for late February. A successful DT-12A will pave the road back into operational flight test scheduled to begin late March and finish mid-July 2003. JASSM's Milestone III is scheduled for late November 2003 for a full rate production decision leading to a Lot 3 full rate production contract award in December 2003 with deliveries to begin in January 2005.

November 18 marked the signing of the Lot 2 low rate initial production contract. The 100 JASSMs will contain selective availability anti-spoofing module (SAASM) receivers. First deliveries are expected in March FY04.

The Air Force has funded a \$141.0M JASSM Extended Range Preplanned Product Improvement (P3I) program, beginning in FY04. The go-ahead is based on three criteria established by the Secretary of the Air Force. First, the baseline missile must have a successful Initial Operational Test and Evaluation (IOT&E) program. Second, the

contractor must demonstrate the ability to produce the baseline missile. Finally, the contractor and the Air Force must develop an acceptable business case. Based on user requirements, we have replanned 1300 baseline JASSMs to 1300 more capable and expensive JASSM-ERs. An additional \$10M was appropriated by Congress for risk reduction activities associated with an accelerated start for an extended range JASSM.

### Threshold Breaches

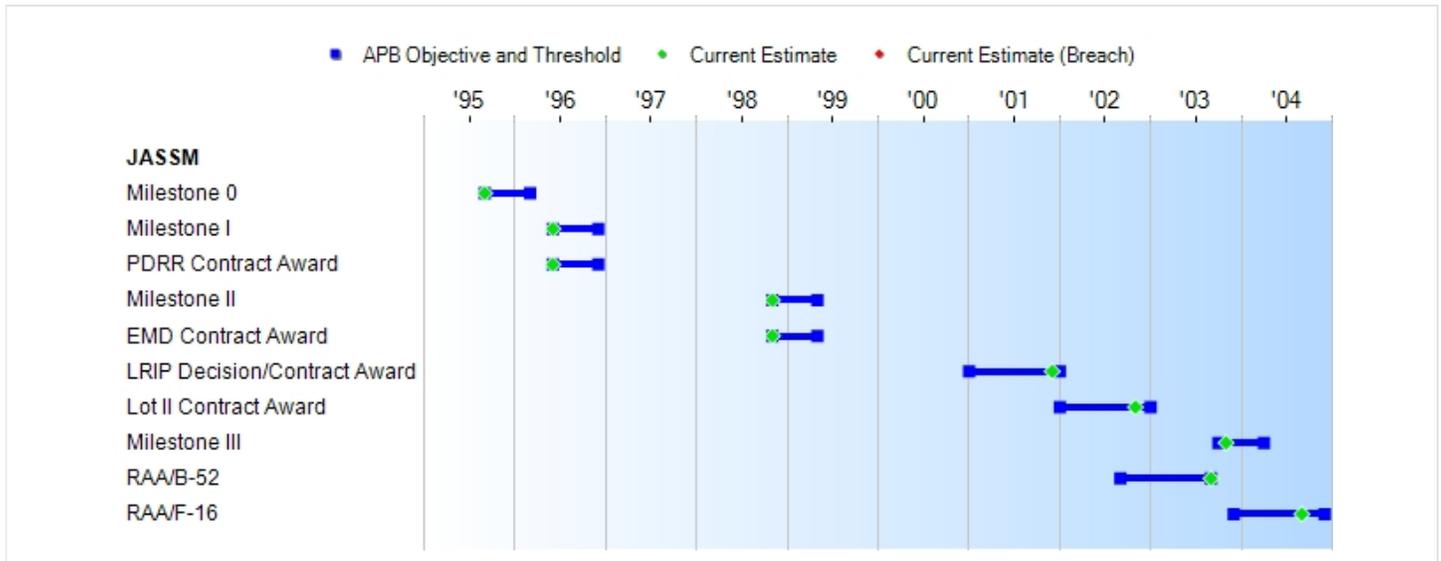
APB Breaches		
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- Schedule
- Performance
- Cost
  - RDT&E
  - Procurement
  - MILCON
  - Acq O&M
- Unit Cost
  - PAUC
  - APUC

Nunn-McCurdy Breaches		
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- Current UCR Baseline
  - PAUC None
  - APUC None
- Original UCR Baseline
  - PAUC None
  - APUC None

### Schedule



Milestones	SAR Baseline Dev Est	Current APB Development Objective/Threshold		Current Estimate
Milestone 0	SEP 1995	SEP 1995	MAR 1996	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
Milestone III	JUL 2002	OCT 2003	APR 2004	NOV 2003
RAA/B-52	SEP 2002	SEP 2002	SEP 2003	SEP 2003
RAA/F-16	DEC 2003	DEC 2003	DEC 2004	SEP 2004

### Change Explanations

None

### Memo

Notes: Approved APB thresholds for LRIP Decision/Contract Award, RAA/B-52 and RAA/F-16 are one year, not six months. All Current Estimates are within approved thresholds.

### Acronyms

- PDRR - Program Definition and Risk Reduction
- RAA - Required Assets Available
- RAA for the B-52 is 42 missiles
- RAA for the F-16 is 25 missiles

## **Performance**

Note: Classified and unclassified performance parameters are displayed in the Classified DAMIR.

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

APPN 3600 PE 0207325F (Air Force)  
Joint Air-to-Surface Standoff Missile  
APPN 1319 PE 0604312N (Navy)  
Joint Air-to-Surface Standoff Missile

**Procurement**

APPN 1507 (Navy) ICN 0203270N  
Joint Air-to-Surface Standoff Missile  
APPN 3020 BA 02 (Air Force) ICN 0207325F  
Joint Air-to-Surface Standoff Missile

## Cost and Funding

### Cost Summary

#### Total Acquisition Cost and Quantity

Appropriation	BY1995 \$M				TY \$M		
	SAR Baseline Dev Est	Current APB Development Objective/Threshold	Current Estimate		SAR Baseline Dev Est	Current APB Development Objective	Current Estimate
RDT&E	771.1	1070.5	1231.1	1081.8	838.6	1177.6	1182.7
Procurement	960.0	2270.9	2611.5	2270.9	1209.6	2868.1	2868.1
Flyaway	914.3	--	--	--	--	--	--
Recurring	914.3	--	--	--	--	--	--
Non Recurring	0.0	--	--	0.0	--	--	0.0
Support	45.7	--	--	--	--	--	--
Other Support	45.7	--	--	--	--	--	--
Initial Spares	0.0	--	--	--	--	--	--
MILCON	18.4	18.4	21.2	--	25.1	25.1	--
Acq O&M	--	--	--	--	--	--	--
<b>Total</b>	<b>1749.5</b>	<b>3359.8</b>	<b>N/A</b>	<b>3352.7</b>	<b>2073.3</b>	<b>4070.8</b>	<b>4050.8</b>

Note: Procurement funding does not include Seek Eagle funding of \$11.6M (\$.7M in FY02, \$3.7M in FY03, \$1.4M in FY04, \$2.8M in FY05, and \$2.8M in FY07). Exit criteria for Milestone III were approved at the LRIP decision.

Due to OSD plus-ups in FY08 and FY09, the quantities were increased from 3700 to 3826 for the Air Force and from 483 to 514 for the Navy.

Quantity	SAR Baseline Dev Est	Current APB Development	Current Estimate
RDT&E	69	94	94
Procurement	2400	3826	4340
<b>Total</b>	<b>2469</b>	<b>3920</b>	<b>4434</b>

Note: Total Program Quantity includes 88 fully configured RDT&E units for EMD (82 for the Air Force and six for the Navy) An additional six units are planned for JASSM Extended Range development.

176 missiles were approved for low rate initial production on December 21, 2001. This is less than ten percent of the total planned procurement.

## Funding Summary

### Appropriation and Quantity Summary

#### FY2004 President's Budget / December 2002 SAR (TY\$ M)

Appropriation	Prior	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	To Complete	Total
RDT&E	843.9	65.9	57.0	73.6	83.4	28.4	15.1	15.4	0.0	1182.7
Procurement	42.1	50.1	101.1	145.4	148.6	217.3	375.3	381.9	1406.3	2868.1
MILCON	0.0	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	0.0
PB2004 Total	886.0	116.0	158.1	219.0	232.0	245.7	390.4	397.3	1406.3	4050.8
PB2003 Total	874.8	107.5	136.5	179.0	170.6	212.5	200.1	204.4	1034.2	3119.6
Delta	11.2	8.5	21.6	40.0	61.4	33.2	190.3	192.9	372.1	931.2

Quantity	Prior	FY2003	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	94
Production	76	100	250	360	360	290	497	504	1903	4340
PB2004 Total	76	100	250	360	360	290	497	504	1903	4434
PB2003 Total	76	100	250	360	360	292	297	302	1663	3788
Delta	0	0	0	0	0	-2	200	202	240	646

## Annual Funding By Appropriation

### Annual Funding TY\$

1319 | RDT&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
1998	--	--	--	--	--	--	5.2
1999	--	--	--	--	--	--	1.8
2000	--	--	--	--	--	--	3.4
2001	--	--	--	--	--	--	2.0
2002	--	--	--	--	--	--	1.9
2003	--	--	--	--	--	--	14.9
2004	--	--	--	--	--	--	25.8
2005	--	--	--	--	--	--	27.7
2006	--	--	--	--	--	--	21.8
2007	--	--	--	--	--	--	14.8
2008	--	--	--	--	--	--	15.1
2009	--	--	--	--	--	--	15.4
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>149.8</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1998	--	--	--	--	--	--	4.9
1999	--	--	--	--	--	--	1.7
2000	--	--	--	--	--	--	3.1
2001	--	--	--	--	--	--	1.8
2002	--	--	--	--	--	--	1.7
2003	--	--	--	--	--	--	13.3
2004	--	--	--	--	--	--	22.7
2005	--	--	--	--	--	--	24.0
2006	--	--	--	--	--	--	18.6
2007	--	--	--	--	--	--	12.4
2008	--	--	--	--	--	--	12.4
2009	--	--	--	--	--	--	12.5
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>129.1</b>

## Annual Funding TY\$

## 3600 | RDT&amp;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	--	--	--	--	--	--	51.0
2004	--	--	--	--	--	--	31.2
2005	--	--	--	--	--	--	45.9
2006	--	--	--	--	--	--	61.6
2007	--	--	--	--	--	--	13.6
<b>Subtotal</b>	<b>88</b>	--	--	--	--	--	<b>1032.9</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1996	--	--	--	--	--	--	26.7
1997	--	--	--	--	--	--	153.5
1998	--	--	--	--	--	--	155.4
1999	--	--	--	--	--	--	114.3
2000	--	--	--	--	--	--	142.8
2001	--	--	--	--	--	--	108.2
2002	--	--	--	--	--	--	74.9
2003	--	--	--	--	--	--	45.6
2004	--	--	--	--	--	--	27.5
2005	--	--	--	--	--	--	39.8
2006	--	--	--	--	--	--	52.6
2007	--	--	--	--	--	--	11.4
<b>Subtotal</b>	<b>88</b>	--	--	--	--	--	<b>952.7</b>

## Annual Funding TY\$

## 1507 | Procurement | Weapons Procurement, 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
2007	30	--	--	--	--	--	19.7
2008	111	--	--	--	--	--	72.1
2009	110	--	--	--	--	--	72.7
2010	80	--	--	--	--	--	53.4
2011	80	--	--	--	--	--	57.8
2012	80	--	--	--	--	--	58.4
2013	23	--	--	--	--	--	26.3
<b>Subtotal</b>	<b>514</b>	--	--	--	--	--	<b>360.4</b>

## Annual Funding BY\$

## 1507 | Procurement | Weapons Procurement, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1995 \$M	Non End Item Recurring Flyaway BY 1995 \$M	Non Recurring Flyaway BY 1995 \$M	Total Flyaway BY 1995 \$M	Total Support BY 1995 \$M	Total Program BY 1995 \$M
2007	30	--	--	--	--	--	16.3
2008	111	--	--	--	--	--	58.6
2009	110	--	--	--	--	--	58.1
2010	80	--	--	--	--	--	41.9
2011	80	--	--	--	--	--	44.6
2012	80	--	--	--	--	--	44.2
2013	23	--	--	--	--	--	19.6
<b>Subtotal</b>	<b>514</b>	--	--	--	--	--	<b>283.3</b>

**Cost Quantity Information****1507 | Procurement | Weapons Procurement, Navy**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway (Aligned with Quantity) BY 1995 \$M</b>
2007	30	16.3
2008	111	58.6
2009	110	58.1
2010	80	41.9
2011	80	44.6
2012	80	44.2
2013	23	19.6
<b>Subtotal</b>	<b>514</b>	<b>283.3</b>

## Annual Funding TY\$

## 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
2001	--	--	--	--	--	--	0.1
2002	76	--	--	--	--	--	42.0
2003	100	--	--	--	--	--	50.1
2004	250	--	--	--	--	--	101.1
2005	360	--	--	--	--	--	145.4
2006	360	--	--	--	--	--	148.6
2007	260	--	--	--	--	--	197.6
2008	386	--	--	--	--	--	303.2
2009	394	--	--	--	--	--	309.2
2010	313	--	--	--	--	--	242.8
2011	272	--	--	--	--	--	196.2
2012	272	--	--	--	--	--	197.1
2013	271	--	--	--	--	--	198.3
2014	271	--	--	--	--	--	199.8
2015	241	--	--	--	--	--	176.2
<b>Subtotal</b>	<b>3826</b>	--	--	--	--	--	<b>2507.7</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
2001	--	--	--	--	--	--	0.1
2002	76	--	--	--	--	--	37.6
2003	100	--	--	--	--	--	44.3
2004	250	--	--	--	--	--	88.0
2005	360	--	--	--	--	--	124.6
2006	360	--	--	--	--	--	125.2
2007	260	--	--	--	--	--	163.6
2008	386	--	--	--	--	--	246.5
2009	394	--	--	--	--	--	247.0
2010	313	--	--	--	--	--	190.4
2011	272	--	--	--	--	--	151.3
2012	272	--	--	--	--	--	149.2
2013	271	--	--	--	--	--	147.4
2014	271	--	--	--	--	--	145.9
2015	241	--	--	--	--	--	126.5
<b>Subtotal</b>	<b>3826</b>	--	--	--	--	--	<b>1987.6</b>

Note: Permission to spend \$150K for long lead material in FY01 was received. Required were receiver parts no longer being manufactured for the Lot 1 receivers. The configuration changes in Lot 2.

Procurement funding does not include Seek Eagle funding of \$11.9M. (\$.7M in FY02, \$3.7M in FY03, \$1.5M in FY04, \$3.0M in FY05, and \$2.9M in FY07).

**Cost Quantity Information**

**3020 | Procurement | Missile Procurement, Air Force**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway (Aligned with Quantity) BY 1995 \$M</b>
2001	--	--
2002	76	33.2
2003	100	38.1
2004	250	80.6
2005	360	119.5
2006	360	120.1
2007	260	157.6
2008	386	239.1
2009	394	239.6
2010	313	183.9
2011	272	145.3
2012	272	143.3
2013	271	141.5
2014	271	140.1
2015	241	121.0
<b>Subtotal</b>	<b>3826</b>	<b>1902.9</b>

**Low Rate Initial Production**

None

**Foreign Military Sales**

The DoD Executive Committee chaired by OSD (AT&L) approved a foreign military sales version of JASSM for Tier I and Tier II countries on September 25, 2002. Each case will be separately approved.

**Nuclear Cost**

None.

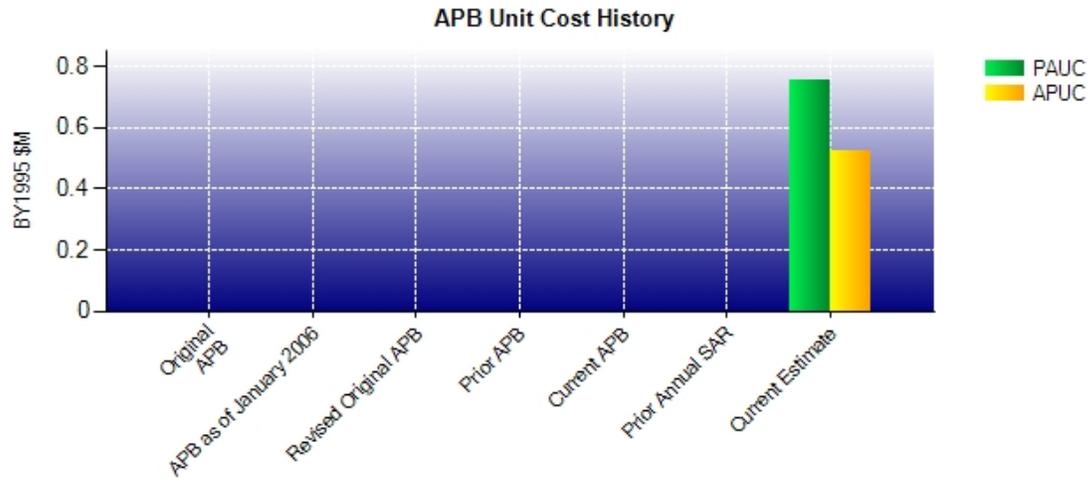
**Unit Cost****Unit Cost Report**

Unit Cost	BY1995 \$M		
	Current UCR Baseline (FEB 2003 APB)	Current Estimate (DEC 2002 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	3359.8	3352.7	
Quantity	3920	4434	
Unit Cost	0.857	0.756	-11.79
Average Procurement Unit Cost (APUC)			
Cost	2270.9	2270.9	
Quantity	3826	4340	
Unit Cost	0.594	0.523	-11.95

Unit Cost	BY1995 \$M		
	Original UCR Baseline	Current Estimate (DEC 2002 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost		3352.7	
Quantity		4434	
Unit Cost		0.756	+0.00
Average Procurement Unit Cost (APUC)			
Cost		2270.9	
Quantity		4340	
Unit Cost		0.523	+0.00

The increase in the Base Year 1995 unit prices is driven by the January 2003 inflation rates, which are lower than the 2002 rates. JASSM has Then Year firm fixed prices for the first five lots. The remaining production lots prices are the result of price based acquisition estimating. The number of constant dollars required increases as inflation decreases, while the current dollars remain the same.

### Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	N/A	N/A	N/A	N/A	N/A
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	N/A	N/A	N/A	N/A	N/A
Current APB	N/A	N/A	N/A	N/A	N/A
Prior Annual SAR	N/A	N/A	N/A	N/A	N/A
Current Estimate	DEC 2002	0.756	0.523	0.914	0.661

### SAR Unit Cost History

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

Initial PAUC Dev Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.840	-0.025	-0.109	0.049	0.086	0.061	0.000	0.012	0.074	0.914

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

Initial APUC Dev Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.504	-0.019	0.039	0.028	0.068	0.029	0.000	0.012	0.157	0.661

## 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	N/A	JUN 1996
Milestone II	JUN 1998	NOV 1998	N/A	NOV 1998
Milestone III	APR 2001	JUL 2002	N/A	NOV 2003
IOC	JUN 2001	SEP 2002	N/A	SEP 2003
Total Cost (TY \$M)	811.3	2073.3	N/A	4050.8
Total Quantity	44	2469	N/A	4434
Prog. Acq. Unit Cost (PAUC)	18.439	0.840	N/A	0.914

**Cost Variance**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	838.6	1209.6	25.1	2073.3
Previous Changes				
Economic	-26.8	-33.7	0.0	-60.5
Quantity	+16.2	+712.6	0.0	+728.8
Schedule	+96.9	+118.5	0.0	+215.4
Engineering	-56.3	0.0	0.0	-56.3
Estimating	+167.9	+71.5	-25.1	+214.3
Other	0.0	0.0	0.0	0.0
Support	0.0	+48.2	0.0	+48.2
Subtotal	+197.9	+917.1	-25.1	+1089.9
Current Changes				
Economic	-5.1	-47.2	--	-52.3
Quantity	+6.8	+433.0	--	+439.8
Schedule	--	+1.8	--	+1.8
Engineering	+142.2	+296.4	--	+438.6
Estimating	+2.3	+53.3	--	+55.6
Other	--	--	--	--
Support	--	+4.1	--	+4.1
Subtotal	+146.2	+741.4	--	+887.6
Total Changes	+344.1	+1658.5	-25.1	+1977.5
CE - Cost Variance	1182.7	2868.1	--	4050.8
CE - Cost & Funding	1182.7	2868.1	--	4050.8

<b>Summary Base Year 1995 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	771.1	960.0	18.4	1749.5
Previous Changes				
Economic	0.0	0.0	0.0	0.0
Quantity	+14.7	+489.0	0.0	+503.7
Schedule	+87.6	+88.6	0.0	+176.2
Engineering	-47.4	0.0	0.0	-47.4
Estimating	+125.5	+85.5	-18.4	+192.6
Other	0.0	0.0	0.0	0.0
Support	0.0	+36.0	0.0	+36.0
Subtotal	+180.4	+699.1	-18.4	+861.1
Current Changes				
Economic	--	--	--	--
Quantity	+6.0	+335.4	--	+341.4
Schedule	--	+1.7	--	+1.7
Engineering	+122.2	+229.9	--	+352.1
Estimating	+2.1	+41.8	--	+43.9
Other	--	--	--	--
Support	--	+3.0	--	+3.0
Subtotal	+130.3	+611.8	--	+742.1
Total Changes	+310.7	+1310.9	-18.4	+1603.2
CE - Cost Variance	1081.8	2270.9	--	3352.7
CE - Cost & Funding	1081.8	2270.9	--	3352.7

Previous Estimate: September 2002

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
FY 2003 escalation indices are lower than the previous year. (Economic)	N/A	-5.1
Six additional DT/OT test units for JASSM-ER (Quantity) (QR)	+6.0	+6.8
JASSM-ER development (Engineering)	+122.2	+142.2
Adjustment for Current and Prior Inflation. (Estimating)	+2.1	+2.3
RDT&E Subtotal	+130.3	+146.2

(QR) Quantity Related

Procurement	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
FY 2003 escalation indices are lower than the previous year. (Economic)	N/A	-47.2
Total Quantity Variance associated with increase of 126 Air Force missiles from 3700 to 3826 (Subtotal)	0.0	0.0
Quantity increase of 126 Air Force missiles from 3700 to 3826 due to OSD plus-up in FY08 and FY09. (Quantity) (QR)	+52.1	+72.6
Allocation to Schedule variance resulting from Quantity Change. (Schedule) (QR)	+1.7	+2.9
Allocation to Estimating variance resulting from Quantity Change. (Estimating) (QR)	+1.7	+1.8
Acceleration of annual procurement buy profile. (Schedule)	0.0	-1.1
JASSM-ER additional capability engine and fuel. (Engineering)	+229.9	+296.4
Addition of Navy procurement - 514 missiles from 0 to 514 (Quantity) (QR)	+283.3	+360.4
Adjustment for Current and Prior Inflation. (Estimating)	+0.9	+1.1
Adjustment to account for assumed inflation decreases to fixed price procurement. (Estimating)	+39.2	+50.4
Change in Other Wpn System Costs due to an additional year (Support)	+3.0	+4.1
Procurement Subtotal	+611.8	+741.4

(QR) Quantity Related

## Contracts

### General Contract Memo

The \$13.2M difference between the estimated price at completion for the contractor and the program manger represents planned scope increases, operational risk reduction and problem resolutions that are not yet on contract.

### Appropriation: RDT&E

Contract Name	<b>JASSM EMD</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08626-96-C-0002, CPAF
Award Date	November 13, 1998
Definitization Date	November 13, 1998

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
172.0	N/A	0	412.1	N/A	0	427.6	440.8

	Cost Variance	Schedule Variance
Previous Cumulative Variances	-16.3	-3.6
Cumulative Variances To Date	-17.2	-3.7
Net Change	-0.9	-0.1

### Cost And Schedule Variance Explanations

The unfavorable schedule variance is due to Troy not keeping pace with missile build plans due to field returns and holds due to flight failures.

The unfavorable cost variance is attributable to additional flight failure analysis, field returns and rework at Troy (rain/hail damage, bubbling, fuze, wing actuator removal and replacement).

### Contract Comments

The increase of \$8.1M on the contract since the previous SAR is due primarily to an increase in EMD scope. This includes an electronic safe and arm fuze study and a SAASM black key study as well as the F/A-18 integration bridge effort.

**Appropriation: Procurement**

Contract Name **JASSM LRIP (Lot 1)**  
 Contractor Lockheed Martin  
 Contractor Location Orlando , FL 32819  
 Contract Number, Type F08635-02-C-0026, FFP  
 Award Date January 14, 2002  
 Definitization Date January 14, 2002

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
36.2	N/A	76	36.2	N/A	76	36.2	36.2

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

JASSM Lot 1 was awarded in January, following the LRIP decision, for 76 units.

**Appropriation: Procurement**

Contract Name **JASSM LRIP (Lot 2)**  
 Contractor Lockheed Martin  
 Contractor Location Orlando , FL 32819  
 Contract Number, Type F08635-03-C-0010, FFP  
 Award Date November 18, 2002  
 Definitization Date November 18, 2002

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
36.1	N/A	100	36.1	N/A	100	36.1	36.1

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

Lot 2 was awarded on 18 November 2002 for 100 units.

**Deliveries and Expenditures**

<b>Deliveries To Date</b>	<b>Plan</b>	<b>Actual</b>	<b>Total Quantity</b>	<b>Percent Delivered</b>
Development	45	45	94	47.87%
Production	0	0	4340	0.00%
<b>Total Program Quantities Delivered</b>	<b>45</b>	<b>45</b>	<b>4434</b>	<b>1.01%</b>

**Expenditures and Appropriations (TY \$M)**

Total Acquisition Cost	4050.8	Years Appropriated	8
Expenditures To Date	837.0	Percent Years Appropriated	40.00%
Percent Expended	20.66%	Appropriated to Date	1002.0
Total Funding Years	20	Percent Appropriated	24.74%

## Operating and Support Cost

### Assumptions and Ground Rules

The JASSM O&S estimate includes only Air Force requirements. The Navy requirements are not yet defined. 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 bumper-to-bumper warranty is assumed with a 20-year shelf life and the subsequent demilitarization of the weapon. The JASSM program office will function as the ALC. The estimate was updated as the result of the quantity increase.

There is no antecedent system for JASSM.

#### Costs BY1995 \$K

Cost Element	JASSM O&S Per Missile	N/A
Mission Pay & Allowance	0.0	--
Unit Level Consumption	0.0	--
Intermediate Maintenance	0.0	--
Depot Maintenance	0.0	--
Contractor Support	2.0	--
Sustaining Support	0.0	--
Indirect	0.0	--
Other	--	--
Total Unitized Cost (Base Year 1995 \$)	2.0	--

Total O&S Costs \$M	JASSM	N/A
Base Year	256.3	--
Then Year	399.6	--



# Defense Acquisition Management Information Retrieval (DAMIR)



## Selected Acquisition Report (SAR)

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



### **JASSM**

As of December 31, 2003

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

USAF; USN

## Responsible Office

### Responsible Office

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<b>DSN Fax</b>	--
<b>Date Assigned</b>	June 16, 2002

## References

### SAR Baseline (Development Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated November 9, 1998

### Approved APB

CAE Approved Acquisition Program Baseline (APB) dated February 10, 2003

## Mission and Description

The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation air-to-surface missile that will enable Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack both fixed and relocatable targets ranging from non-hardened above ground to moderately hardened buried point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM Extended Range (JASSM-ER) increased standoff range will allow the attack of high value targets with precision, deeper into enemy territory, while minimizing the threat to the launch aircraft. The JASSM does not replace any existing weapon system.

## Executive Summary

Air Force Operational Test and Evaluation Center (AFOTEC) concluded Initial Operational Test and Evaluation (IOT&E) on October 3, 2003 and completed their final IOT&E report on December 10, 2003. Joint Air-to-Surface Missile (JASSM) achieved a grade of Effective and Potentially Suitable and was recommended for full rate production.

The final development Test for the Block 1A JASSM was launched on March 26, 2003 at the White Sands Missile Range (WSMR). The DT-12A JASSM was released off a operational B-52 from Barksdale AFB, LA, flew through nine way points, and the live warhead detonated exactly as planned. This marked the last planned developmental mission from a B-52 aircraft. The success of DT-12A completed the requirements for the AFOTEC JASSM Test Team to resume operational testing.

AFOTEC resumed IOT&E on April 8, 2003 at WSMR. The OT-4A and 4B Lot 1 missiles were launched from a Barksdale AFB operational B-52. The 4A missile performed as planned. The 4B missile engine failed to start after launch and the missile was destroyed by WSMR safety. A failure review board was convened and the investigation identified two possible sources of this failure - both of which have been thoroughly scrutinized and addressed in the production process.

On July 11, 2003, the AFOTEC launched two JASSM missions, OT-5A and OT-5B, from a Barksdale AFB operational B-52. Both missiles flew their planned mission and accomplished all objectives. On August 2, 2003, the AFOTEC launched JASSM over the Nevada Test and Training Range (NTTR), OT-6B. The live warhead missile, released off an operational B-52 from Barksdale AFB, LA, flew its planned route and accomplished all objectives. The missile used on this test was the first Lot 1 production JASSM to be launched and it performed flawlessly. AFOTEC's next test, OT-6AR, occurred on August 9, 2003, again at NTTR and was launched off a Barksdale AFB LA, B-52. This mission was originally flown on July 19, 2003 but was rescheduled due to a malfunction of missile test instrumentation. All objectives were met. On August 14, 2003, AFOTEC launched OT-4BR at WSMR. A Barksdale AFB, LA, B-52 launched the JASSM and accomplished all test points.

On September 19, 2003 AFOTEC returned to NTTR to launch OT-2A and OT-2B tests. During the launch sequence for OT-2B, a safety feature in the missile detected a missile power failure and prevented the missile release. The Barksdale AFB B-52 next launched the OT-2A missile. The missile flew its preplanned mission and accomplished all objectives. Problems identified from the OT-2B attempted launch and correction implemented.

An F-16 M3.3+ integration mission was executed at WSMR on October 22, 2003, from an Edwards AFB, CA, F-16 test aircraft. All integration test objectives were accomplished, which supports JASSM Follow on Test and Evaluation (FOT&E) on production F-16M3+ in second quarter FY04.

On October 30, 2003, a JASSM Separation Test Vehicle was released from an Edwards AFB B-1B test aircraft over the China Lake Weapons Range. This successful separation test marked the first release of a guided JASSM from the B-1B, and demonstrated aerodynamics compatibility between JASSM and B-1B.

JASSM met the warfighter commitment for Required Assets Available (RAA) status with a B-52H unit at Barksdale AFB on September 24, 2003. In addition, JASSM met the Headquarters Air Combat Command requirements for the B-2 inventory objective on December 30, 2003.

The JASSM team awarded the Navy JASSM F/A-18E/F and Joint Mission Planning System (JMPS) Integration contract valued at \$53M to Lockheed Martin Missile and Fire Control on April 17, 2003. The period of performance is through December 2007. F/A-18E/F Initial Operation Capability (IOC) is expected in third quarter FY09.

Lockheed Martin was awarded a \$9.6M contract on June 27, 2003 for Phase I of the JASSM Extended Range

(JASSM-ER) Pre-Planned Product Improvement (P3I) program. These funds support the risk reduction efforts on Lockheed's engine candidates and the business case required for the go-ahead to proceed with Phase II of the JASSM Extended Range program in FY04. Approval to proceed with Phase II of JASSM-ER was granted in November 2003.

The House and Senate Defense Appropriation Committees marked the FY04 JASSM production and development budget request. The HAC-D reduced the production request of \$102.5M to \$56M and the SAC-D lowered the request to \$38.5M. Language in the committee reports also directed JASSM maintain Low Rate Initial Production (LRIP) in FY04. Additionally, the HAC-D reduced the JASSM-ER development budget request by \$11M.

The Congressional Appropriation Conference met in September 2003 and restored sufficient JASSM Lot 3 production funding to sustain prices achieved during competition. This action resulted in the procurement of 200 versus the planned 250 quantity. In addition, JASSM received \$16.5M of supplemental funding (Iraqi Freedom Funds) which allowed the program office to purchase an additional 40 missiles, bringing the total Lot 3 buy to 240 missiles. The Congressional Appropriations Conference also settled on a reduction to JASSM development of \$5.5M with JASSM-ER receiving the cut. The Navy F/A-18 integration effort was cut by \$4.0M.

The Navy slipped JASSM production cut-in from FY07 to FY08 and reduced the total quantity buy from 514 to 453 missiles.

### Threshold Breaches

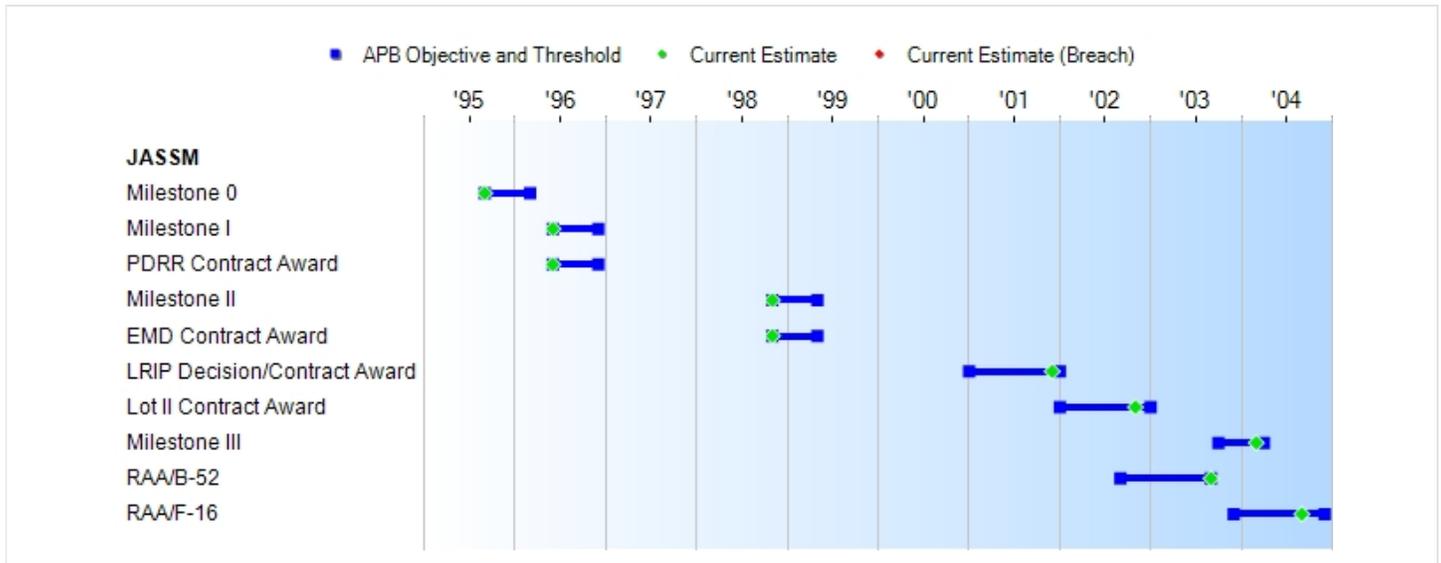
APB Breaches		
--------------	--	--

- Schedule
- Performance
- Cost
  - RDT&E
  - Procurement
  - MILCON
  - Acq O&M
- Unit Cost
  - PAUC
  - APUC

Nunn-McCurdy Breaches		
-----------------------	--	--

- Current UCR Baseline**
  - PAUC None
  - APUC None
- Original UCR Baseline**
  - PAUC None
  - APUC None

### Schedule



Milestones	SAR Baseline Dev Est	Current APB Development Objective/Threshold		Current Estimate
Milestone 0	SEP 1995	SEP 1995	MAR 1996	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
Milestone III	JUL 2002	OCT 2003	APR 2004	MAR 2004
RAA/B-52	SEP 2002	SEP 2002	SEP 2003	SEP 2003
RAA/F-16	DEC 2003	DEC 2003	DEC 2004	SEP 2004

### Change Explanations

None

### Memo

Notes: Approved APB thresholds for LRIP Decision/Contract Award, RAA/B-52 and RAA/F-16 are one year, not six months. All Current Estimates are within approved thresholds.

### Acronyms

- PDRR - Program Definition and Risk Reduction
- RAA - Required Assets Available
- RAA for the B-52 is 42 missiles
- RAA for the F-16 is 25 missiles
- EMD - Engineering and Manufacturing Development
- LRIP - Low Rate Initial Production
- NM - Nautical Mile

IER - Information Exchange Requirement  
MSFD - Multi Spectral Force Deployment  
MME - Missile Mission Effectiveness

## Performance

Note: Classified and unclassified performance parameters are displayed in the Classified DAMIR.

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

APPN 3600 PE 0207325F (Air Force)  
Joint Air-to-Surface Standoff Missile  
APPN 1319 PE 0604312N (Navy)  
Joint Air-to-Surface Standoff Missile

**Procurement**

APPN 1507 (Navy) ICN 223600  
Joint Air-to-Surface Standoff Missile  
APPN 3020 BA 02 (Air Force) ICN 654515  
Joint Air-to-Surface Standoff Missile

## Cost and Funding

### Cost Summary

#### Total Acquisition Cost and Quantity

Appropriation	BY1995 \$M				TY \$M		
	SAR Baseline Dev Est	Current APB Development Objective/Threshold	Current Estimate		SAR Baseline Dev Est	Current APB Development Objective	Current Estimate
RDT&E	771.1	1070.5	1231.1	1073.1	838.6	1177.6	1171.8
Procurement	960.0	2270.9	2611.5	2239.3	1209.6	2868.1	2826.7
Flyaway	914.3	--	--	--	--	--	--
Recurring	914.3	--	--	--	--	--	--
Non Recurring	0.0	--	--	0.0	--	--	0.0
Support	45.7	--	--	--	--	--	--
Other Support	45.7	--	--	--	--	--	--
Initial Spares	0.0	--	--	--	--	--	--
MILCON	18.4	18.4	21.2	--	25.1	25.1	--
Acq O&M	--	--	--	--	--	--	--
Total	1749.5	3359.8	N/A	3312.4	2073.3	4070.8	3998.5

Note: Procurement funding does not include Seek Eagle funding of \$11.5M (\$.7M in FY02, \$3.7M in FY03, \$1.4M in FY04, \$2.8M in FY05, and \$2.9M in FY07). Exit criteria for Milestone III were approved at the LRIP decision.

Quantity	SAR Baseline Dev Est	Current APB Development	Current Estimate
RDT&E	69	94	97
Procurement	2400	3826	4269
Total	2469	3920	4366

Note: Total Program Quantity includes 97 fully configured RDT&E units for EMD (88 for the Air Force and nine for the Navy) An additional six units are planned for JASSM Extended Range development.

Navy RDT&E received a FY04 congressional cut of \$4.0M for the F-/18E-F Integration.

Air Force RDT&E received a FY04 congressional cut of \$5.5M for JASSM-ER.

Lot 3 was awarded 26 November 2003 for 200 units. Congressional funding cuts decreased our quantity buy from 250 to 200. Congress approved \$16.5M in supplemental funding of Iraqi Freedom Funds (IFF) to be used for procurement of missiles. This action increased our quantity buy from 200 to 240. Also, congressional language for FY04 budget dictated that JASSM program remain in LRIP for Lot 3.

Navy realigned their production by moving the schedule out by one year and reduced quantities from 514 to 453.

## Funding Summary

### Appropriation and Quantity Summary

#### FY2005 President's Budget / December 2003 SAR (TY\$ M)

Appropriation	Prior	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	To Complete	Total
RDT&E	912.7	46.4	72.8	82.6	27.8	14.6	14.9	0.0	1171.8
Procurement	92.2	99.4	145.3	148.3	197.4	323.2	380.9	1440.0	2826.7
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
PB2005 Total	1004.9	145.8	218.1	230.9	225.2	337.8	395.8	1440.0	3998.5
PB2004 Total	1002.0	158.1	219.0	232.0	245.7	390.4	397.3	1406.3	4050.8
Delta	2.9	-12.3	-0.9	-1.1	-20.5	-52.6	-1.5	33.7	-52.3

Quantity	Prior	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	To Complete	Total
Development	0	0	0	0	0	0	0	0	97
Production	176	240	360	360	260	414	500	1959	4269
PB2005 Total	176	240	360	360	260	414	500	1959	4366
PB2004 Total	176	250	360	360	290	497	504	1903	4434
Delta	0	-10	0	0	-30	-83	-4	56	-68

## Annual Funding By Appropriation

### Annual Funding TY\$

1319 | RDT&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
1998	--	--	--	--	--	--	5.3
1999	--	--	--	--	--	--	1.8
2000	--	--	--	--	--	--	3.4
2001	--	--	--	--	--	--	2.0
2002	--	--	--	--	--	--	5.9
2003	--	--	--	--	--	--	16.1
2004	--	--	--	--	--	--	20.9
2005	--	--	--	--	--	--	27.0
2006	--	--	--	--	--	--	21.1
2007	--	--	--	--	--	--	14.3
2008	--	--	--	--	--	--	14.6
2009	--	--	--	--	--	--	14.9
<b>Subtotal</b>	<b>9</b>	--	--	--	--	--	<b>147.3</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1998	--	--	--	--	--	--	5.0
1999	--	--	--	--	--	--	1.7
2000	--	--	--	--	--	--	3.1
2001	--	--	--	--	--	--	1.8
2002	--	--	--	--	--	--	5.3
2003	--	--	--	--	--	--	14.4
2004	--	--	--	--	--	--	18.4
2005	--	--	--	--	--	--	23.5
2006	--	--	--	--	--	--	18.1
2007	--	--	--	--	--	--	12.0
2008	--	--	--	--	--	--	12.1
2009	--	--	--	--	--	--	12.1
<b>Subtotal</b>	<b>9</b>	--	--	--	--	--	<b>127.5</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	--	--	--	--	--	--	27.6
1997	--	--	--	--	--	--	160.7
1998	--	--	--	--	--	--	163.8
1999	--	--	--	--	--	--	121.7
2000	--	--	--	--	--	--	154.4
2001	--	--	--	--	--	--	118.6
2002	--	--	--	--	--	--	82.8
2003	--	--	--	--	--	--	48.6
2004	--	--	--	--	--	--	25.5
2005	--	--	--	--	--	--	45.8
2006	--	--	--	--	--	--	61.5
2007	--	--	--	--	--	--	13.5
<b>Subtotal</b>	<b>88</b>	--	--	--	--	--	<b>1024.5</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1996	--	--	--	--	--	--	26.7
1997	--	--	--	--	--	--	153.5
1998	--	--	--	--	--	--	155.4
1999	--	--	--	--	--	--	114.3
2000	--	--	--	--	--	--	142.8
2001	--	--	--	--	--	--	108.2
2002	--	--	--	--	--	--	74.8
2003	--	--	--	--	--	--	43.4
2004	--	--	--	--	--	--	22.5
2005	--	--	--	--	--	--	39.9
2006	--	--	--	--	--	--	52.7
2007	--	--	--	--	--	--	11.4
<b>Subtotal</b>	<b>88</b>	--	--	--	--	--	<b>945.6</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>
2008	28	--	--	--	--	--	19.8
2009	106	--	--	--	--	--	70.9
2010	106	--	--	--	--	--	70.7
2011	80	--	--	--	--	--	53.4
2012	80	--	--	--	--	--	57.8
2013	53	--	--	--	--	--	47.7
<b>Subtotal</b>	<b>453</b>	--	--	--	--	--	<b>320.3</b>

## Annual Funding BY\$

## 1507 | Procurement | Weapons Procurement, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1995 \$M	Non End Item Recurring Flyaway BY 1995 \$M	Non Recurring Flyaway BY 1995 \$M	Total Flyaway BY 1995 \$M	Total Support BY 1995 \$M	Total Program BY 1995 \$M
2008	28	--	--	--	--	--	16.2
2009	106	--	--	--	--	--	56.9
2010	106	--	--	--	--	--	55.6
2011	80	--	--	--	--	--	41.1
2012	80	--	--	--	--	--	43.7
2013	53	--	--	--	--	--	35.3
<b>Subtotal</b>	<b>453</b>	--	--	--	--	--	<b>248.8</b>

**Cost Quantity Information****1507 | Procurement | Weapons Procurement, Navy**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway (Aligned with Quantity) BY 1995 \$M</b>
2008	28	16.2
2009	106	56.9
2010	106	55.6
2011	80	41.1
2012	80	43.7
2013	53	35.3
<b>Subtotal</b>	<b>453</b>	<b>248.8</b>

## Annual Funding TY\$

## 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
2001	--	--	--	--	--	--	0.1
2002	76	--	--	--	--	--	42.0
2003	100	--	--	--	--	--	50.1
2004	240	--	--	--	--	--	99.4
2005	360	--	--	--	--	--	145.3
2006	360	--	--	--	--	--	148.3
2007	260	--	--	--	--	--	197.4
2008	386	--	--	--	--	--	303.4
2009	394	--	--	--	--	--	310.0
2010	313	--	--	--	--	--	242.8
2011	272	--	--	--	--	--	196.2
2012	272	--	--	--	--	--	197.1
2013	271	--	--	--	--	--	198.3
2014	271	--	--	--	--	--	199.6
2015	241	--	--	--	--	--	176.4
<b>Subtotal</b>	<b>3816</b>	--	--	--	--	--	<b>2506.4</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
2001	--	--	--	--	--	--	0.1
2002	76	--	--	--	--	--	37.6
2003	100	--	--	--	--	--	44.5
2004	240	--	--	--	--	--	87.1
2005	360	--	--	--	--	--	125.5
2006	360	--	--	--	--	--	125.9
2007	260	--	--	--	--	--	164.6
2008	386	--	--	--	--	--	248.1
2009	394	--	--	--	--	--	248.6
2010	313	--	--	--	--	--	190.9
2011	272	--	--	--	--	--	151.2
2012	272	--	--	--	--	--	148.9
2013	271	--	--	--	--	--	146.9
2014	271	--	--	--	--	--	145.0
2015	241	--	--	--	--	--	125.6
<b>Subtotal</b>	<b>3816</b>	--	--	--	--	--	<b>1990.5</b>

Note: Permission to spend \$150K for long lead material in FY01 was received. Required were receiver parts no longer being manufactured for the Lot 1 receivers. The configuration changed in Lot 2.

Procurement funding does not include Seek Eagle funding of \$11.5M. (\$.7M in FY02, \$3.7M in FY03, \$1.4M in FY04, \$2.8M in FY05, and \$2.9M in FY07).

## Cost Quantity Information

## 3020 | Procurement | Missile Procurement, Air Force

Fiscal Year	Quantity	End Item Recurring Flyaway (Aligned with Quantity) BY 1995 \$M
2001	--	--
2002	76	33.1
2003	100	36.3
2004	240	85.0
2005	360	120.8
2006	360	121.1
2007	260	159.0
2008	386	241.0
2009	394	241.6
2010	313	184.7
2011	272	145.5
2012	272	143.2
2013	271	141.3
2014	271	139.4
2015	241	120.2
<b>Subtotal</b>	<b>3816</b>	<b>1912.2</b>

**Low Rate Initial Production**

None

**Foreign Military Sales**

Currently JASSM is in competition for Air Project 5418, the Australian Follow-On Standoff Weapon. Additionally, Lockheed Martin has a license with provisos, to hold discussions/briefings with the European Participating Air Forces (EPAF) countries and Spain. Each case will be separately approved.

**Nuclear Cost**

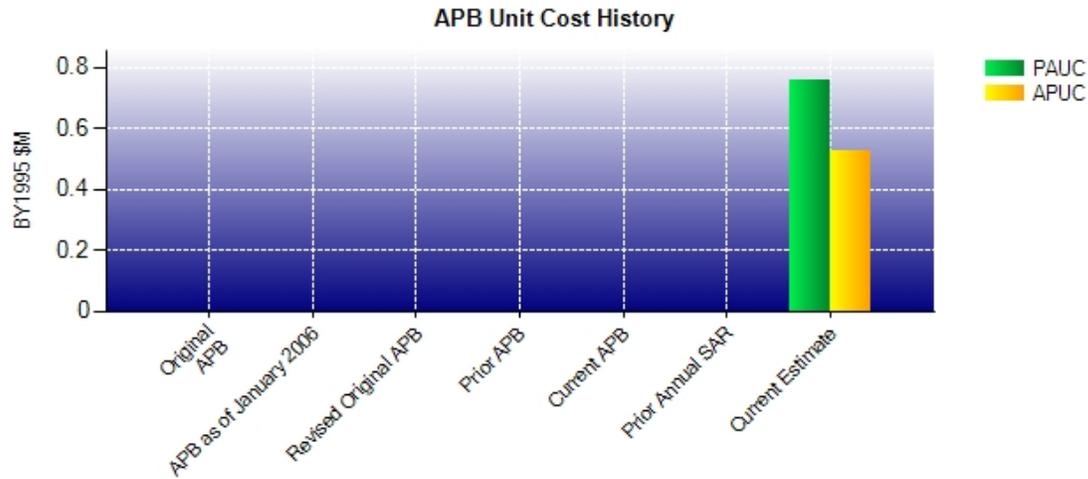
None.

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

<b>Unit Cost</b>	<b>BY1995 \$M</b>		
	<b>Current UCR Baseline (FEB 2003 APB)</b>	<b>Current Estimate (DEC 2003 SAR)</b>	<b>BY % Change</b>
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost	3359.8	3312.4	
Quantity	3920	4366	
Unit Cost	0.857	0.759	-11.44
<b>Average Procurement Unit Cost (APUC)</b>			
Cost	2270.9	2239.3	
Quantity	3826	4269	
Unit Cost	0.594	0.525	-11.62

<b>Unit Cost</b>	<b>BY1995 \$M</b>		
	<b>Original UCR Baseline</b>	<b>Current Estimate (DEC 2003 SAR)</b>	<b>BY % Change</b>
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost		3312.4	
Quantity		4366	
Unit Cost		0.759	+0.00
<b>Average Procurement Unit Cost (APUC)</b>			
Cost		2239.3	
Quantity		4269	
Unit Cost		0.525	+0.00

### Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	N/A	N/A	N/A	N/A	N/A
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	N/A	N/A	N/A	N/A	N/A
Current APB	N/A	N/A	N/A	N/A	N/A
Prior Annual SAR	N/A	N/A	N/A	N/A	N/A
Current Estimate	DEC 2003	0.759	0.525	0.916	0.662

### SAR Unit Cost History

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

Initial PAUC Dev Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.840	-0.026	-0.107	0.051	0.088	0.060	0.000	0.010	0.076	0.916

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

Initial APUC Dev Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.504	-0.020	0.039	0.030	0.069	0.030	0.000	0.010	0.158	0.662

## 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	N/A	JUN 1996
Milestone II	JUN 1998	NOV 1998	N/A	NOV 1998
Milestone III	APR 2001	JUL 2002	N/A	MAR 2004
IOC	JUN 2001	SEP 2002	N/A	SEP 2003
Total Cost (TY \$M)	811.3	2073.3	N/A	3998.5
Total Quantity	44	2469	N/A	4366
Prog. Acq. Unit Cost (PAUC)	18.439	0.840	N/A	0.916

**Cost Variance**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	838.6	1209.6	25.1	2073.3
Previous Changes				
Economic	-31.9	-80.9	0.0	-112.8
Quantity	+23.0	+1145.6	0.0	+1168.6
Schedule	+96.9	+120.3	0.0	+217.2
Engineering	+85.9	+296.4	0.0	+382.3
Estimating	+170.2	+124.8	-25.1	+269.9
Other	0.0	0.0	0.0	0.0
Support	0.0	+52.3	0.0	+52.3
Subtotal	+344.1	+1658.5	-25.1	+1977.5
Current Changes				
Economic	+0.5	-2.5	--	-2.0
Quantity	--	-41.9	--	-41.9
Schedule	--	+6.0	--	+6.0
Engineering	--	--	--	--
Estimating	-11.4	+5.1	--	-6.3
Other	--	--	--	--
Support	--	-8.1	--	-8.1
Subtotal	-10.9	-41.4	--	-52.3
Total Changes	+333.2	+1617.1	-25.1	+1925.2
CE - Cost Variance	1171.8	2826.7	--	3998.5
CE - Cost & Funding	1171.8	2826.7	--	3998.5

<b>Summary Base Year 1995 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	771.1	960.0	18.4	1749.5
Previous Changes				
Economic	0.0	0.0	0.0	0.0
Quantity	+20.7	+824.4	0.0	+845.1
Schedule	+87.6	+90.3	0.0	+177.9
Engineering	+74.8	+229.9	0.0	+304.7
Estimating	+127.6	+127.3	-18.4	+236.5
Other	0.0	0.0	0.0	0.0
Support	0.0	+39.0	0.0	+39.0
Subtotal	+310.7	+1310.9	-18.4	+1603.2
Current Changes				
Economic	--	--	--	--
Quantity	--	-29.5	--	-29.5
Schedule	--	-1.7	--	-1.7
Engineering	--	--	--	--
Estimating	-8.7	+6.0	--	-2.7
Other	--	--	--	--
Support	--	-6.4	--	-6.4
Subtotal	-8.7	-31.6	--	-40.3
Total Changes	+302.0	+1279.3	-18.4	+1562.9
CE - Cost Variance	1073.1	2239.3	--	3312.4
CE - Cost & Funding	1073.1	2239.3	--	3312.4

Previous Estimate: December 2002

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	-0.7
Economic adjustment for negative program change. (Economic)	N/A	+1.2
Adjustment for Current and Prior Inflation. (Estimating)	-1.4	-1.8
Congressional cut - FY04 - AF (Estimating)	-4.2	-5.6
Congressional cut - FY04 - Navy (Estimating)	-3.1	-4.0
RDT&E Subtotal	-8.7	-10.9

Procurement	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	-4.6
Economic adjustment for negative program change. (Economic)	N/A	+2.1
Total Quantity Variance associated with decrease of 61 units, from 514 to 453, for Navy. (Subtotal)	0.0	0.0
Quantity decrease of -61 units. (Quantity) (QR)	-25.3	-35.7
Allocation to Schedule variance resulting from Quantity Change. (Schedule) (QR)	-1.5	-2.3
Allocation to Estimating variance resulting from Quantity Change. (Estimating) (QR)	-6.1	-7.9
Total Quantity Variance associated with decrease of 10 units, from 250 to 240, for Air Force. (Subtotal)	0.0	0.0
Quantity decrease of -10 units. (Quantity) (QR)	-4.2	-6.2
Allocation to Schedule variance resulting from Quantity Change. (Schedule) (QR)	-0.2	-0.3
Allocation to Estimating variance resulting from Quantity Change. (Estimating) (QR)	-0.9	-1.2
Stretchout of annual procurement buy profile for Navy. (Schedule)	0.0	+7.1
Stretchout of annual procurement buy profile for Air Force. (Schedule)	0.0	+1.5
Updated out year projections for Navy. (Estimating)	-1.6	-2.3
Adjustment for Current and Prior Inflation. (Estimating)	+0.7	+0.8
Increase in JASSM-ER delta cost for Air Force. (Estimating)	+13.9	+15.7
Adjustment for Current and Prior Inflation. (Support)	+0.1	+0.1
Decrease in other weapon system costs due to updated support projections. (Support)	-6.5	-8.2
Procurement Subtotal	-31.6	-41.4

(QR) Quantity Related

## Contracts

Appropriation: RDT&E	
Contract Name	JASSM EMD
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08626-96-C-0002, CPAF
Award Date	November 13, 1998
Definitization Date	November 13, 1998

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
172.0	N/A	0	445.9	N/A	0	445.9	452.4

	Cost Variance	Schedule Variance
Previous Cumulative Variances	-17.2	-3.7
Cumulative Variances To Date	-15.7	-3.9
Net Change	+1.5	-0.2

### Cost And Schedule Variance Explanations

The unfavorable net schedule variance is due to the impact of production on the test unit assembly. Also, B-1 schedule changes have prevented tasks from being accomplished.

The unfavorable net cost variance is attributable to Selective Availability Anti-Spoofing Module (SASSM) hardware yield problems, and fuze and wing actuator failures.

### Contract Comments

The \$6.5M difference between the estimated price at completion for the contractor and the program manger represents planned scope increases, operational risk reduction and problem resolutions that are not yet on contract.

The increase of \$273.9M from the Initial Contract Price to the Current Contract Price represents scope increases, risk reduction/extension, EMD restructure, SASSM, overrun, B-1 restructure, and problem resolution.

The increase of \$28.0M on the contract since the previous SAR is due to an increase in EMD scope and additional overrun. Scope increases include electronic safe and arm fuze phase II, Navstrike software, radar cross section pole model, and ship attack capability study.

**Appropriation: Procurement**

Contract Name **JASSM LRIP (Lot 1)**  
 Contractor Lockheed Martin  
 Contractor Location Orlando , FL 32819  
 Contract Number, Type F08635-02-C-0026, FFP  
 Award Date January 14, 2002  
 Definitization Date January 14, 2002

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
36.2	N/A	76	38.1	N/A	76	38.1	38.1

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

None

**Appropriation: Procurement**

Contract Name **JASSM LRIP (Lot 2)**  
 Contractor Lockheed Martin  
 Contractor Location Orlando , FL 32819  
 Contract Number, Type F08635-03-C-0010, FFP  
 Award Date November 18, 2002  
 Definitization Date November 18, 2002

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
36.1	N/A	100	43.4	N/A	100	43.4	43.4

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

None

**Appropriation: RDT&E**

Contract Name **F-/18E-F & JMPS Integrat**  
 Contractor Lockheed Martin  
 Contractor Location Orlando , FL 32819  
 Contract Number, Type F08635-03-C-0059, CPIF  
 Award Date April 17, 2003  
 Definitization Date April 17, 2003

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
52.9	N/A	0	52.9	N/A	0	47.7	47.7

	Cost Variance	Schedule Variance
Previous Cumulative Variances	--	--
Cumulative Variances To Date	+1.7	-0.2
Net Change	+1.7	-0.2

**Cost And Schedule Variance Explanations**

The unfavorable net schedule variance is due to awarding 3 months later than the planned award date.

The favorable net cost variance is attributable to an underrun incentive on the contract.

**Contract Comments**

None

<b>Appropriation: Procurement</b>
-----------------------------------

Contract Name	<b>JASSM LRIP (Lot 3)</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	FA8682-04-C-0060, FFP
Award Date	November 26, 2003
Definitization Date	November 26, 2003

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
76.4	N/A	240	93.8	N/A	240	93.8	93.8

<b>Cost And Schedule Variance Explanations</b>
--

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

<b>Contract Comments</b>
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Lot 3 was awarded 26 November 2003 for 240 units. Congressional funding cuts decreased our quantity buy from 250 to 200. Congress approved \$16.5M in supplemental funding of Iraqi Freedom Funds (IFF) to be used for procurement of missiles. This action increased our quantity buy from 200 to 240. Also, congressional language for FY04 budget dictated that JASSM program remain in LRIP for Lot 3.

**Deliveries and Expenditures**

<b>Deliveries To Date</b>	<b>Plan</b>	<b>Actual</b>	<b>Total Quantity</b>	<b>Percent Delivered</b>
Development	76	76	97	78.35%
Production	62	62	4269	1.45%
<b>Total Program Quantities Delivered</b>	<b>138</b>	<b>138</b>	<b>4366</b>	<b>3.16%</b>

**Expenditures and Appropriations (TY \$M)**

Total Acquisition Cost	3998.5	Years Appropriated	9
Expenditures To Date	976.0	Percent Years Appropriated	45.00%
Percent Expended	24.41%	Appropriated to Date	1150.7
Total Funding Years	20	Percent Appropriated	28.78%

## Operating and Support Cost

### Assumptions and Ground Rules

The JASSM O&S estimate includes only Air Force requirements. The Navy requirements are not yet defined. 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 bumper-to-bumper warranty is assumed with a 20-year shelf life and the subsequent demilitarization of the weapon. The JASSM program office will function as the ALC. The estimate was updated as the result of the quantity decrease.

The latest O&S cost estimate was August 2003.

There is no antecedent system for JASSM.

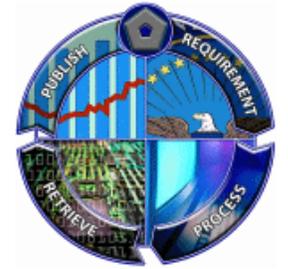
#### Costs BY1995 \$K

Cost Element	JASSM Ave Annual Cost Per Missile	N/A
Mission Pay & Allowance	0.0	--
Unit Level Consumption	0.0	--
Intermediate Maintenance	0.0	--
Depot Maintenance	0.0	--
Contractor Support	3.7	--
Sustaining Support	0.0	--
Indirect	0.0	--
Other	--	--
Total Unitized Cost (Base Year 1995 \$)	3.7	--

Total O&S Costs \$M	JASSM	N/A
Base Year	285.5	--
Then Year	469.7	--



# Defense Acquisition Management Information Retrieval (DAMIR)



## Selected Acquisition Report (SAR)

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



### **JASSM**

As of September 30, 2004

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

USN

## Responsible Office

### Responsible Office

Col James Geurts

AAC/YV

JASSM System Program Office

102 West D Ave, Suite 168

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**DSN Fax** --

**Date Assigned** August 11, 2004

## References

### SAR Baseline (Development Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated November 9, 1998

### Approved APB

AFAE Approved Acquisition Program Baseline (APB) dated July 14, 2004

## Mission and Description

The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation air-to-surface missile that will enable Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack both fixed and relocatable targets ranging from non-hardened above ground to moderately hardened buried point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM Extended Range (JASSM-ER) variant increased standoff range will allow the attack of high value targets with precision and deeper into enemy territory, while minimizing the threat to the launch aircraft. The JASSM does not replace any existing weapon system.

## Executive Summary

This quarterly exception Selected Acquisition Report (SAR) is being submitted to rebaseline from a Development to a Production Estimate to reflect Milestone III approval in April 2004 and a revised Acquisition Program Baseline (APB) dated July 14, 2004. The new APB increases JASSM/JASSM-ER production quantities and adds schedule milestones for JASSM-ER production cut-in, JASSM-ER B-1 Required Assets Availability (RAA) and Initial Operating Capability (IOC) for F/A-18E/F.

The JASSM team continues to work hard to improve product confidence to ensure fielded units meet user expectations. The Director of Operational Test and Evaluation (DOT&E) and Air Force Operational Test and Evaluation Command (AFOTEC) reports continue to confirm JASSM effectiveness (lethality and survivability) but also highlight reliability concerns shared by the Joint Program Office (JPO). As a result of two test failures in June and July 2004, the Air Force Program Executive Officer for Weapons convened a Reliability Enhancement Team (RET), August 16, 2004, to review JASSM processes, system engineering procedures, and investigate reliability/quality initiatives. This executive team is made up of participants from Office of the Secretary of Defense (OSD), Air Force Material Command (AFMC), AFOTEC, and Lockheed Martin. The team is scheduled to outbrief findings and recommendations by the end of October 2004. In addition, Lockheed Martin is conducting an Internal Review of the JASSM program and is implementing several initiatives to include production process verification reviews at suppliers and subtiers and design assurance reviews. The RET coupled with JPO/Lockheed Martin process reviews are designed to address reliability concerns and will help ensure production process controls are in place prior to award of the Lot 4 (FY05) production buy.

In conjunction with AFOTEC, Air Combat Command (ACC), and DOT&E, the JASSM team is developing the plans and coordinating the priorities for FY05 flight testing. In addition, the JPO is reviewing and refining operational test planning for JASSM-ER which will be documented in a Test and Evaluation Master Plan (TEMP) annex.

A summary of other significant events since the last SAR:

On December 30, 2003, JASSM met the ACC requirements for the B-2 inventory objective of 53 missiles, along with technical data, training, and JASSM load trainers.

On February 20, 2004, Lockheed Martin was awarded a \$79M cost plus award fee contract for JASSM-ER Phase II development. The period of performance is through June 2007.

JASSM production deliveries continue to meet schedule with 119 operational missiles delivered to ACC as of the date of this report. Twelve of these missiles are stored at Lackland AFB as part of a Standard Air Munitions Package (STAMP) and are available for immediate worldwide transport should the need arise. The balance of the fielded missiles are located with their respective operational aircraft units.

The Air Force received an FY05 Congressional cut of \$8.3M for JASSM production that will result in a decrease in quantity from 360 to 294, but that is not reflected in this report.

### Threshold Breaches

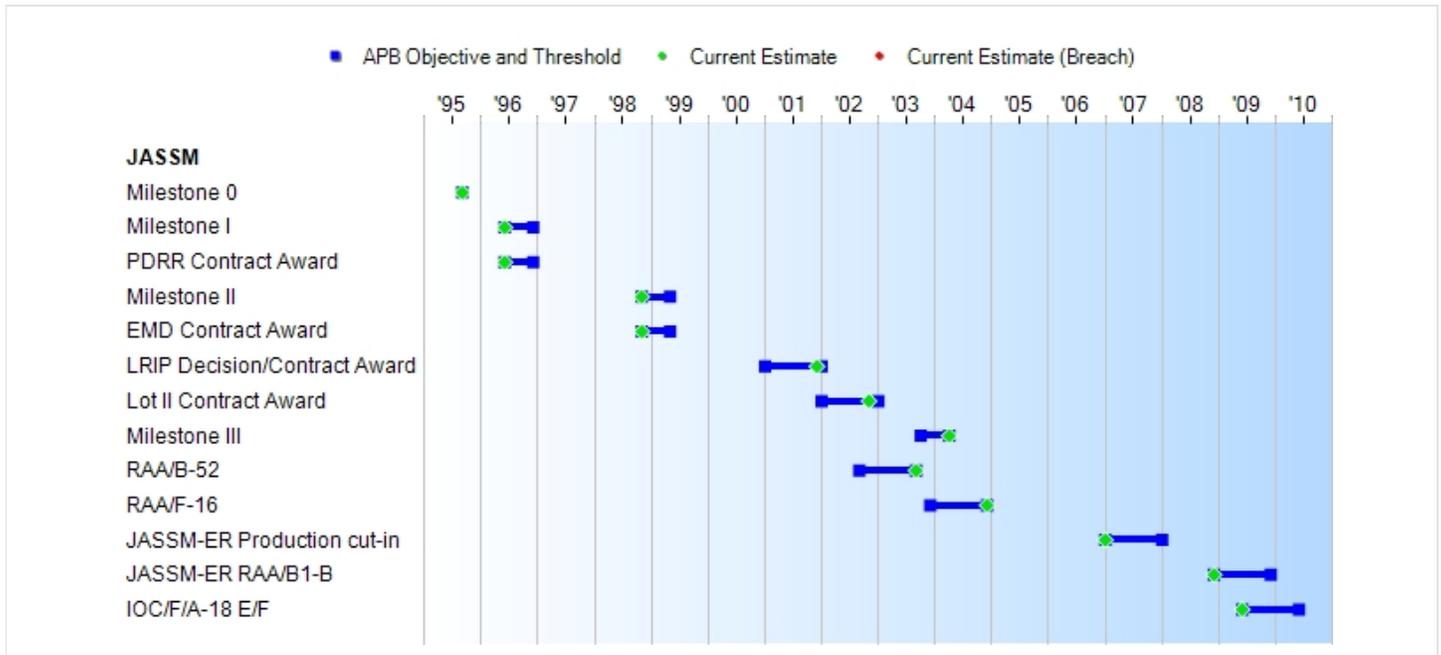
APB Breaches		
--------------	--	--

- Schedule
- Performance
- Cost
  - RDT&E
  - Procurement
  - MILCON
  - Acq O&M
- Unit Cost
  - PAUC
  - APUC

Nunn-McCurdy Breaches		
-----------------------	--	--

- Current UCR Baseline
  - PAUC None
  - APUC None
- Original UCR Baseline
  - PAUC None
  - APUC None

### Schedule



Milestones	SAR Baseline Dev 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
Milestone III	JUL 2002	OCT 2003	APR 2004	APR 2004
RAA/B-52	SEP 2002	SEP 2002	SEP 2003	SEP 2003
RAA/F-16	DEC 2003	DEC 2003	DEC 2004	DEC 2004
JASSM-ER Production cut-in	N/A	JAN 2007	JAN 2008	JAN 2007
JASSM-ER RAA/B1-B	N/A	DEC 2008	DEC 2009	DEC 2008
IOC/F/A-18 E/F	N/A	JUN 2009	JUN 2010	JUN 2009

### Change Explanations

None

### Memo

Acronyms  
 EMD - Engineering and Manufacturing Development  
 IOC - Initial Operating Capability  
 LRIP - Low Rate Initial Production  
 PDRR - Program Definition and Risk Reduction

## RAA - Required Assets Available

Notes: The JASSM Milestone III decision was held on April 2004 by MG Chedister, AF/PEO for Weapons; however, it was later determined that the Milestone Decision Authority (MDA) resided with Secretary of Air Force for Acquisition (SAF/AQ) as the Service Acquisition Executive (SAE). Accordingly, the Milestone III decision was reaccomplished in July 2004.

Approved APB thresholds for Low Rate Initial Production (LRIP) Decision/Contract Award, RAA/B-52, RAA/F-16, JASSM-ER Production cut-in, JASSM-ER RAA/B1-B, and IOC/F/A-18 E/F are one year, not six months. All Current Estimates are within approved thresholds.

RAA for the B-52 is 42 missiles

RAA for the F-16 is 25 missiles

RAA for the JASSM-ER B1-B is 80 missiles

## **Performance**

Note: Classified and unclassified performance parameters are displayed in the Classified DAMIR.

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

APPN 3600 PE 0207325F (Air Force)  
Joint Air-to-Surface Standoff Missile  
APPN 1319 PE 0604312N (Navy)  
Joint Air-to-Surface Standoff Missile

**Procurement**

APPN 1507 (Navy) ICN 223600  
Joint Air-to-Surface Standoff Missile  
APPN 3020 BA 02 (Air Force) ICN 654515  
Joint Air-to-Surface Standoff Missile

## Cost and Funding

### Cost Summary

#### Total Acquisition Cost and Quantity

Appropriation	BY1995 \$M			TY \$M			
	SAR Baseline Dev Est	Current APB Production Objective/Threshold	Current Estimate	SAR Baseline Dev Est	Current APB Production Objective	Current Estimate	
RDT&E	771.1	1096.6	1261.1	1096.6	838.6	1199.8	1199.8
Procurement	960.0	2901.4	3336.6	2901.4	1209.6	3756.2	3756.2
Flyaway	914.3	--	--	--	--	--	--
Recurring	914.3	--	--	--	--	--	--
Non Recurring	0.0	--	--	0.0	--	--	0.0
Support	45.7	--	--	--	--	--	--
Other Support	45.7	--	--	--	--	--	--
Initial Spares	0.0	--	--	--	--	--	--
MILCON	18.4	18.4	21.2	--	25.1	25.1	--
Acq O&M	--	--	--	--	--	--	--
<b>Total</b>	<b>1749.5</b>	<b>4016.4</b>	<b>N/A</b>	<b>3998.0</b>	<b>2073.3</b>	<b>4981.1</b>	<b>4956.0</b>

Note: Procurement funding does not include Seek Eagle funding of \$7.0M (\$1.4M in FY04, \$2.8M in FY05, and \$2.8M in FY07). Exit criteria for Milestone III were approved at the LRIP decision.

The Air Force received an FY05 Congressional cut of \$8.3M for JASSM production that will result in a decrease in quantity from 360 to 294, but that is not reflected in this report.

Quantity	SAR Baseline Dev Est	Current APB Production	Current Estimate
RDT&E	69	94	94
Procurement	2400	5353	5353
<b>Total</b>	<b>2469</b>	<b>5447</b>	<b>5447</b>

Note: Total Program Quantity includes 94 fully configured RDT&E units for Engineering and Manufacturing Development (EMD) (88 total for the Air Force of which six units are planned for JASSM ER development and six total for Navy)

The Acquisition Decision Memorandum (ADM) signed on December 21, 2001, gave us the LRIP decision to procure 176 missiles. Congressional language for FY 04 budget dictated that JASSM program remain in LRIP for Lot 3.

## Funding Summary

### Appropriation and Quantity Summary

#### SEP 2004 Exception SAR (TY \$M)

Appropriation	Prior	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	To Complete	Total
RDT&E	912.6	50.4	72.9	94.9	40.2	24.5	4.3	0.0	1199.8
Procurement	92.3	99.4	145.3	148.3	197.4	323.2	380.9	2369.4	3756.2
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
SEP 2004 Total	1004.9	149.8	218.2	243.2	237.6	347.7	385.2	2369.4	4956.0
PB2005 Total	1004.9	145.8	218.1	230.9	225.2	337.8	395.8	1440.0	3998.5
Delta	0.0	4.0	0.1	12.3	12.4	9.9	-10.6	929.4	957.5

Quantity	Prior	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	To Complete	Total
Development	0	0	0	0	0	0	0	0	94
Production	176	240	360	360	260	412	495	3050	5353
SEP 2004 Total	176	240	360	360	260	412	495	3050	5447
PB2005 Total	176	240	360	360	260	414	500	1959	4366
Delta	0	0	0	0	0	-2	-5	1091	1081

#### FY2005 President's Budget / December 2003 SAR (TY\$ M)

Appropriation	Prior	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	To Complete	Total
RDT&E	912.7	46.4	72.8	82.6	27.8	14.6	14.9	0.0	1171.8
Procurement	92.2	99.4	145.3	148.3	197.4	323.2	380.9	1440.0	2826.7
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
PB2005 Total	1004.9	145.8	218.1	230.9	225.2	337.8	395.8	1440.0	3998.5
PB2004 Total	1002.0	158.1	219.0	232.0	245.7	390.4	397.3	1406.3	4050.8
Delta	2.9	-12.3	-0.9	-1.1	-20.5	-52.6	-1.5	33.7	-52.3

Quantity	Prior	FY2004	FY2005	FY2006	FY2007	FY2008	FY2009	To Complete	Total
Development	0	0	0	0	0	0	0	0	97
Production	176	240	360	360	260	414	500	1959	4269
PB2005 Total	176	240	360	360	260	414	500	1959	4366
PB2004 Total	176	250	360	360	290	497	504	1903	4434
Delta	0	-10	0	0	-30	-83	-4	56	-68

## Annual Funding By Appropriation

### Annual Funding TY\$

1319 | RDT&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
1998	--	--	--	--	--	--	5.3
1999	--	--	--	--	--	--	1.8
2000	--	--	--	--	--	--	3.4
2001	--	--	--	--	--	--	2.0
2002	--	--	--	--	--	--	5.9
2003	--	--	--	--	--	--	16.1
2004	--	--	--	--	--	--	20.9
2005	--	--	--	--	--	--	27.1
2006	--	--	--	--	--	--	33.4
2007	--	--	--	--	--	--	26.6
2008	--	--	--	--	--	--	24.5
2009	--	--	--	--	--	--	4.3
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>171.3</b>

## Annual Funding BY\$

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

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1995 \$M	Non End Item Recurring Flyaway BY 1995 \$M	Non Recurring Flyaway BY 1995 \$M	Total Flyaway BY 1995 \$M	Total Support BY 1995 \$M	Total Program BY 1995 \$M
1998	--	--	--	--	--	--	5.0
1999	--	--	--	--	--	--	1.7
2000	--	--	--	--	--	--	3.1
2001	--	--	--	--	--	--	1.8
2002	--	--	--	--	--	--	5.3
2003	--	--	--	--	--	--	14.4
2004	--	--	--	--	--	--	18.4
2005	--	--	--	--	--	--	23.6
2006	--	--	--	--	--	--	28.5
2007	--	--	--	--	--	--	22.4
2008	--	--	--	--	--	--	20.1
2009	--	--	--	--	--	--	3.5
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>147.8</b>

## Annual Funding TY\$

## 3600 | RDT&amp;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	--	--	--	--	--	--	121.6
2000	--	--	--	--	--	--	154.4
2001	--	--	--	--	--	--	118.6
2002	--	--	--	--	--	--	82.8
2003	--	--	--	--	--	--	48.6
2004	--	--	--	--	--	--	29.5
2005	--	--	--	--	--	--	45.8
2006	--	--	--	--	--	--	61.5
2007	--	--	--	--	--	--	13.6
<b>Subtotal</b>	<b>88</b>	--	--	--	--	--	<b>1028.5</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1996	--	--	--	--	--	--	26.7
1997	--	--	--	--	--	--	153.5
1998	--	--	--	--	--	--	155.4
1999	--	--	--	--	--	--	114.2
2000	--	--	--	--	--	--	142.8
2001	--	--	--	--	--	--	108.2
2002	--	--	--	--	--	--	74.8
2003	--	--	--	--	--	--	43.4
2004	--	--	--	--	--	--	26.0
2005	--	--	--	--	--	--	39.8
2006	--	--	--	--	--	--	52.6
2007	--	--	--	--	--	--	11.4
<b>Subtotal</b>	<b>88</b>	--	--	--	--	--	<b>948.8</b>

## Annual Funding TY\$

## 1507 | Procurement | Weapons Procurement, 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
2008	26	--	--	--	--	--	19.8
2009	101	--	--	--	--	--	70.9
2010	80	--	--	--	--	--	57.8
2011	80	--	--	--	--	--	58.8
2012	80	--	--	--	--	--	60.0
2013	86	--	--	--	--	--	66.0
<b>Subtotal</b>	<b>453</b>	--	--	--	--	--	<b>333.3</b>

## Annual Funding BY\$

## 1507 | Procurement | Weapons Procurement, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1995 \$M	Non End Item Recurring Flyaway BY 1995 \$M	Non Recurring Flyaway BY 1995 \$M	Total Flyaway BY 1995 \$M	Total Support BY 1995 \$M	Total Program BY 1995 \$M
2008	26	--	--	--	--	--	16.2
2009	101	--	--	--	--	--	56.9
2010	80	--	--	--	--	--	45.4
2011	80	--	--	--	--	--	45.3
2012	80	--	--	--	--	--	45.3
2013	86	--	--	--	--	--	48.7
<b>Subtotal</b>	<b>453</b>	--	--	--	--	--	<b>257.8</b>

**Cost Quantity Information****1507 | Procurement | Weapons Procurement, Navy**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway (Aligned with Quantity) BY 1995 \$M</b>
2008	26	14.0
2009	101	54.3
2010	80	43.0
2011	80	43.1
2012	80	43.0
2013	86	46.8
<b>Subtotal</b>	<b>453</b>	<b>244.2</b>

## Annual Funding TY\$

## 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
2001	--	--	--	--	--	--	0.2
2002	76	--	--	--	--	--	42.0
2003	100	--	--	--	--	--	50.1
2004	240	--	--	--	--	--	99.4
2005	360	--	--	--	--	--	145.3
2006	360	--	--	--	--	--	148.3
2007	260	--	--	--	--	--	197.4
2008	386	--	--	--	--	--	303.4
2009	394	--	--	--	--	--	310.0
2010	312	--	--	--	--	--	244.4
2011	362	--	--	--	--	--	266.7
2012	362	--	--	--	--	--	268.1
2013	362	--	--	--	--	--	270.0
2014	362	--	--	--	--	--	272.0
2015	362	--	--	--	--	--	274.6
2016	310	--	--	--	--	--	268.0
2017	292	--	--	--	--	--	263.0
<b>Subtotal</b>	<b>4900</b>	--	--	--	--	--	<b>3422.9</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
2001	--	--	--	--	--	--	0.2
2002	76	--	--	--	--	--	37.6
2003	100	--	--	--	--	--	44.5
2004	240	--	--	--	--	--	87.1
2005	360	--	--	--	--	--	125.5
2006	360	--	--	--	--	--	125.9
2007	260	--	--	--	--	--	164.6
2008	386	--	--	--	--	--	248.1
2009	394	--	--	--	--	--	248.6
2010	312	--	--	--	--	--	192.1
2011	362	--	--	--	--	--	205.5
2012	362	--	--	--	--	--	202.5
2013	362	--	--	--	--	--	200.3
2014	362	--	--	--	--	--	197.7
2015	362	--	--	--	--	--	195.7
2016	310	--	--	--	--	--	187.3
2017	292	--	--	--	--	--	180.4
<b>Subtotal</b>	<b>4900</b>	--	--	--	--	--	<b>2643.6</b>

Note: Permission to spend \$150K for long lead material in FY01 was received. Required were receiver parts no longer being manufactured for the Lot 1 receivers. The configuration changed in Lot 2.

Procurement funding does not include Seek Eagle funding of \$7.0M. (\$1.4M in FY04, \$2.8M in FY05, and \$2.8M in FY07).

Total Program Quantity includes 94 fully configured RDT&E units for Engineering and Manufacturing Development (EMD) (88 total for the Air Force of which six units are planned for JASSM Extended Range development and six total for Navy).

The Air Force received an FY05 Congressional cut of \$8.3M for JASSM production that will result in a decrease in quantity from 360 to 294, but that is not reflected in this report.

**Cost Quantity Information****3020 | Procurement | Missile Procurement, Air Force**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway (Aligned with Quantity) BY 1995 \$M</b>
2001	--	--
2002	76	33.1
2003	100	35.8
2004	240	84.0
2005	360	119.8
2006	360	120.2
2007	260	157.7
2008	386	239.6
2009	394	240.5
2010	312	185.4
2011	362	199.1
2012	362	196.5
2013	362	194.3
2014	362	192.4
2015	362	190.8
2016	310	182.4
2017	292	175.8
<b>Subtotal</b>	<b>4900</b>	<b>2547.4</b>

**Low Rate Initial Production**

None

**Foreign Military Sales**

The USAF developed a "TOPLINE" Export Policy for JASSM in July 2002. Lockheed Martin has marketing and Technical Assistance Agreement licenses with Australia; as well as, marketing license (with provisos) with European Participating Air Forces (EPAF) countries and Spain. Each case will be separately approved.

**Nuclear Cost**

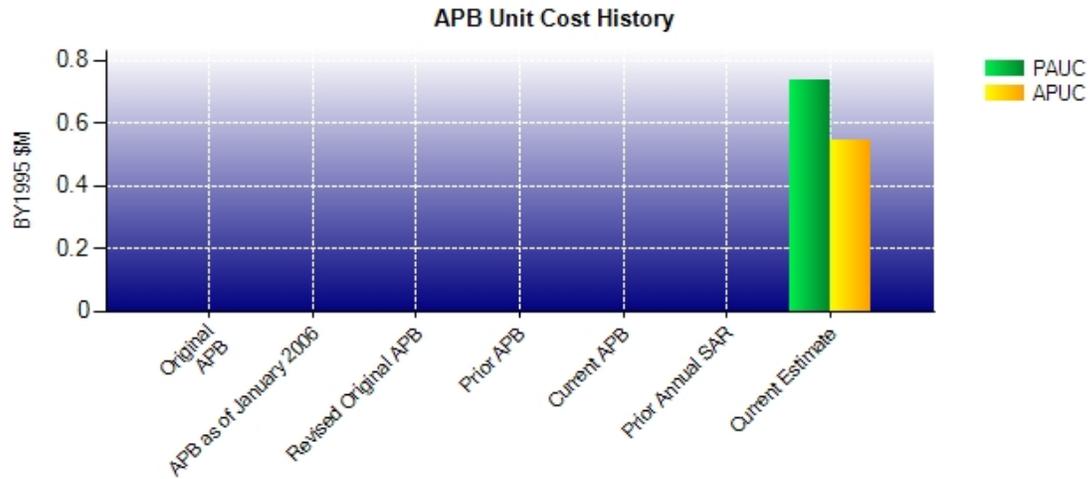
None.

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

<b>Unit Cost</b>	<b>BY1995 \$M</b>		
	<b>Current UCR Baseline (JUL 2004 APB)</b>	<b>Current Estimate (SEP 2004 SAR)</b>	<b>BY % Change</b>
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost	4016.4	3998.0	
Quantity	5447	5447	
Unit Cost	0.737	0.734	-0.41
<b>Average Procurement Unit Cost (APUC)</b>			
Cost	2901.4	2901.4	
Quantity	5353	5353	
Unit Cost	0.542	0.542	+0.00

<b>Unit Cost</b>	<b>BY1995 \$M</b>		
	<b>Original UCR Baseline</b>	<b>Current Estimate (SEP 2004 SAR)</b>	<b>BY % Change</b>
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost		3998.0	
Quantity		5447	
Unit Cost		0.734	+0.00
<b>Average Procurement Unit Cost (APUC)</b>			
Cost		2901.4	
Quantity		5353	
Unit Cost		0.542	+0.00

### Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	N/A	N/A	N/A	N/A	N/A
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	N/A	N/A	N/A	N/A	N/A
Current APB	N/A	N/A	N/A	N/A	N/A
Prior Annual SAR	N/A	N/A	N/A	N/A	N/A
Current Estimate	SEP 2004	0.734	0.542	0.910	0.702

### SAR Unit Cost History

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

Initial PAUC Dev Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.840	-0.021	-0.142	0.049	0.089	0.079	0.000	0.016	0.070	0.910

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

Initial APUC Dev Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.504	-0.016	0.039	0.030	0.075	0.053	0.000	0.017	0.198	0.702

## 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	N/A	JUN 1996
Milestone II	JUN 1998	NOV 1998	N/A	NOV 1998
Milestone III	APR 2001	JUL 2002	N/A	APR 2004
IOC	JUN 2001	SEP 2002	N/A	SEP 2003
Total Cost (TY \$M)	811.3	2073.3	N/A	4956.0
Total Quantity	44	2469	N/A	5447
Prog. Acq. Unit Cost (PAUC)	18.439	0.840	N/A	0.910

**Cost Variance**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	838.6	1209.6	25.1	2073.3
Previous Changes				
Economic	-31.4	-83.4	0.0	-114.8
Quantity	+23.0	+1103.7	0.0	+1126.7
Schedule	+96.9	+126.3	0.0	+223.2
Engineering	+85.9	+296.4	0.0	+382.3
Estimating	+158.8	+129.9	-25.1	+263.6
Other	0.0	0.0	0.0	0.0
Support	0.0	+44.2	0.0	+44.2
Subtotal	+333.2	+1617.1	-25.1	+1925.2
Current Changes				
Economic	--	--	--	--
Quantity	--	+594.6	--	+594.6
Schedule	+13.1	+33.2	--	+46.3
Engineering	--	+105.1	--	+105.1
Estimating	+14.9	+152.3	--	+167.2
Other	--	--	--	--
Support	--	+44.3	--	+44.3
Subtotal	+28.0	+929.5	--	+957.5
Total Changes	+361.2	+2546.6	-25.1	+2882.7
CE - Cost Variance	1199.8	3756.2	--	4956.0
CE - Cost & Funding	1199.8	3756.2	--	4956.0

<b>Summary Base Year 1995 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Dev Est)	771.1	960.0	18.4	1749.5
Previous Changes				
Economic	0.0	0.0	0.0	0.0
Quantity	+20.7	+794.9	0.0	+815.6
Schedule	+87.6	+88.6	0.0	+176.2
Engineering	+74.8	+229.9	0.0	+304.7
Estimating	+118.9	+133.3	-18.4	+233.8
Other	0.0	0.0	0.0	0.0
Support	0.0	+32.6	0.0	+32.6
Subtotal	+302.0	+1279.3	-18.4	+1562.9
Current Changes				
Economic	--	--	--	--
Quantity	--	+423.2	--	+423.2
Schedule	+11.0	+27.4	--	+38.4
Engineering	--	+70.9	--	+70.9
Estimating	+12.5	+109.1	--	+121.6
Other	--	--	--	--
Support	--	+31.5	--	+31.5
Subtotal	+23.5	+662.1	--	+685.6
Total Changes	+325.5	+1941.4	-18.4	+2248.5
CE - Cost Variance	1096.6	2901.4	--	3998.0
CE - Cost & Funding	1096.6	2901.4	--	3998.0

Previous Estimate: December 2003

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised Navy program schedule (Schedule)	+11.0	+13.1
Revised Navy program cost estimate (Estimating)	+9.1	+10.9
Below Threshold Reprograming by Air Force (Estimating)	+3.4	+4.0
RDT&E Subtotal	+23.5	+28.0

Procurement	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Total Quantity Variance associated with increase of 1,084 units for Air Force from 3,816 to 4,900. (Subtotal)	0.0	0.0
Quantity Variance associated with increase of 1,084 units for Air Force from 3,816 to 4,900. (Quantity) (QR)	+423.2	+594.6
Allocation to Schedule variance resulting from Quantity Change. (Schedule) (QR)	+27.4	+31.8
Allocation to Engineering variance resulting from Quantity Change. (Engineering) (QR)	+70.9	+105.1
Allocation to Estimating variance resulting from Quantity Change. (Estimating) (QR)	+41.2	+46.1
Navy Procurement quantity realignment - total quantity unchanged. (Schedule)	0.0	+1.4
Navy cost increases due to quantity realignment. (Estimating)	+9.1	+11.5
Cost increases due to stretch-out of the procurement buy profile. (Estimating)	+58.8	+94.7
Additional support requirements due to quantity changes and additional missile configurations. (Support) (QR)	+31.5	+44.3
Procurement Subtotal	+662.1	+929.5

(QR) Quantity Related

## Contracts

### Appropriation: Procurement

Contract Name	<b>JASSM EMD</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08626-96-C-0002, CPAF
Award Date	November 13, 1998
Definitization Date	November 13, 1998

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
172.0	N/A	0	455.9	N/A	0	455.9	455.9

	Cost Variance	Schedule Variance
Previous Cumulative Variances	-15.7	-3.9
Cumulative Variances To Date (2/23/2003)	-15.3	-3.3
Net Change	+0.4	+0.6

### Cost And Schedule Variance Explanations

The favorable net schedule variance is due to the contractor meeting milestones and taking earned value credit for costs incurred.

The favorable net cost variance is due to the contractor meeting milestones and taking earned value credit for costs incurred.

### Contract Comments

This contract is 97% complete and will not be reported again.

The increase of \$10M on contract since previous SAR is due to award of incentive fee for meeting MSIII exit criteria.

**Appropriation: Procurement**

Contract Name **JASSM LRIP (Lot 1)**  
 Contractor Lockheed Martin  
 Contractor Location Orlando , FL 32819  
 Contract Number, Type F08635-02-C-0026, FFP  
 Award Date January 14, 2002  
 Definitization Date January 14, 2002

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
36.2	N/A	76	38.1	N/A	76	38.1	38.1

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

None

<b>Appropriation: Procurement</b>
-----------------------------------

Contract Name	<b>JASSM LRIP (Lot 2)</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08635-03-C-0010, FFP
Award Date	November 18, 2002
Definitization Date	November 18, 2002

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
36.1	N/A	100	43.3	N/A	100	43.3	43.3

<b>Cost And Schedule Variance Explanations</b>
--

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

<b>Contract Comments</b>
--------------------------

The contract price increase from \$36.1M to \$43.3M is due to the following additions to the contract: Operational Safety, Suitability and Effectiveness (OSS&E) Program, procurement of Dummy Air Training Missiles (DATM), Key Data Processor (KDP) Reprogramming Cable and Software effort, and mission planning sustainment support.

<b>Appropriation: RDT&amp;E</b>
---------------------------------

Contract Name	<b>F-/18E-F &amp; JMPS Integrat</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08635-03-C-0059, CPIF
Award Date	April 17, 2003
Definitization Date	April 17, 2003

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
52.9	N/A	6	52.9	N/A	6	47.8	47.8

	Cost Variance	Schedule Variance
Previous Cumulative Variances	+1.7	-0.2
Cumulative Variances To Date (2/29/2004)	+1.5	-0.5
Net Change	-0.2	-0.3

<b>Cost And Schedule Variance Explanations</b>
--

February 29, 2004 was the last cost report received for this contract due to Navy evaluating program related options.

The unfavorable net schedule and cost variance is related to efforts involved in evaluating program options.

<b>Contract Comments</b>
--------------------------

Acronym:

JMPS - Joint Mission Planning System

**Appropriation: RDT&E**

Contract Name **JASSM-ER Phase II**  
 Contractor Lockheed Martin  
 Contractor Location Orlando , FL  
 Contract Number, Type FA8682-04-C-0004, CPAF  
 Award Date February 20, 2004  
 Definitization Date February 20, 2004

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
79.0	N/A	7	79.0	N/A	7	79.0	79.0

	Cost Variance	Schedule Variance
Previous Cumulative Variances	--	--
Cumulative Variances To Date (8/29/2004)	+0.2	-0.3
Net Change	+0.2	-0.3

**Cost And Schedule Variance Explanations**

The unfavorable net schedule variance is due to a number of drawings released behind schedule delaying the completion of several tooling projects. There are no impacts to missile build schedules.

The favorable net cost variance is due to schedule delays related to software and tooling development, as well as an under run in mission planning.

**Contract Comments**

None

Appropriation: Procurement	
----------------------------	--

Contract Name	<b>JASSM LRIP (Lot 3)</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	FA8682-04-C-0060, FFP
Award Date	November 26, 2003
Definitization Date	November 26, 2003

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
76.4	N/A	200	98.8	N/A	240	98.8	98.8

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

Contract Comments
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The increase in contract price from previous SAR was due to addition of Systems Engineering and Operation, Safety, Suitability, and Effectiveness (OSS&E) program.

Lot 3 was awarded November 26, 2003 for 200 missiles. However, Congress approved an additional 40 missiles be procured with \$16.5M of Iraqi Freedom Funds (IFF). This action increased our quantity buy from 200 to 240 missiles. The increase in contract price was attributable to the additional 40 missiles procured with IFF funds and procurement of Dummy Air Training Missiles (DATM).

**Deliveries and Expenditures**

<b>Deliveries To Date</b>	<b>Plan</b>	<b>Actual</b>	<b>Total Quantity</b>	<b>Percent Delivered</b>
Development	94	94	94	100.00%
Production	119	119	5353	2.22%
<b>Total Program Quantities Delivered</b>	<b>213</b>	<b>213</b>	<b>5447</b>	<b>3.91%</b>

**Expenditures and Appropriations (TY \$M)**

Total Acquisition Cost	4956.0	Years Appropriated	9
Expenditures To Date	1020.7	Percent Years Appropriated	40.91%
Percent Expended	20.60%	Appropriated to Date	1154.7
Total Funding Years	22	Percent Appropriated	23.30%

## Operating and Support Cost

### Assumptions and Ground Rules

The JASSM O&S estimate includes requirements for 5,353 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 bumper-to-bumper warranty is assumed with a 20-year shelf life and the subsequent demilitarization of the weapon. The JASSM program office will function as the Air Force Logistics Center (ALC).

The latest O&S cost estimate was February 2004.

There is no antecedent system for JASSM.

#### Costs BY1995 \$K

Cost Element	JASSM Avg Annual Cost Per Missile	N/A
Mission Pay & Allowance	0.0	--
Unit Level Consumption	0.0	--
Intermediate Maintenance	0.0	--
Depot Maintenance	0.0	--
Contractor Support	2.4	--
Sustaining Support	0.0	--
Indirect	0.0	--
Other	--	--
Total Unitized Cost (Base Year 1995 \$)	2.4	--

Total O&S Costs \$M	JASSM	N/A
Base Year	233.1	--
Then Year	366.7	--



# Defense Acquisition Management Information Retrieval (DAMIR)



## Selected Acquisition Report (SAR)

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



### **JASSM**

As of December 31, 2004

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

USAF; USN

## Responsible Office

### Responsible Office

Col James Geurts	<b>Phone</b>	850-882-4785 ext. 3310
AG/LRMSG	<b>Fax</b>	--
JASSM System Program Office	<b>DSN Phone</b>	872-4785 ext. 3310
102 West D Ave, Suite 168	<b>DSN Fax</b>	--
Eglin AFB, FL 32542-6807		
<a href="mailto:james.geurts@eglin.af.mil">james.geurts@eglin.af.mil</a>	<b>Date Assigned</b>	August 11, 2004

## References

### SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated November 9, 1998

### Approved APB

AFAE Approved Acquisition Program Baseline (APB) dated July 14, 2004

## Mission and Description

The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation air-to-surface missile that will enable Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack both fixed and relocatable targets ranging from non-hardened above ground to moderately hardened buried point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM Extended Range (JASSM-ER) variant's increased standoff range will allow the precision attack of high value targets deeper into enemy territory, while minimizing the threat to the launch aircraft. The JASSM does not replace any existing weapon system for the Air Force.

## Executive Summary

The JASSM accomplished many significant milestones in this reporting period including the successful full rate production decision, the award of the first full rate production lot, the on-schedule delivery of over 170 operational missiles to the Air Combat Command (ACC), and the completion of Required Asset Available (RAA) milestones for the F-16 and B-1s. The Air Force continued its programs to expand the capabilities of JASSM by the award of the JASSM-ER Phase II development program which greatly increases the range of JASSM, the completion of key development milestones in the Electronic Safe and Arm Fuze (ESAF) program, and the funding of the JASSM Weapon Data Link (WDL) program which provides two-way data link and in flight retargeting capabilities. As a result of the recommendations from the Reliability Enhancement Team (RET), the program is aggressively pursuing key process and enhancement efforts in response to product reliability issues discovered in flight tests.

The JASSM-ER program is a Pre-Planned Product Improvement (P3I) initiative of the JASSM AGM-158A that incorporates a new engine and modified fuel system to provide increased missile range. Phase I, a 9 month risk reduction effort, was completed in March 2004 and Phase II, a 40 month development effort, is well underway. The first F107-WR-105 engine has been calibrated and installed into an Engineering and Manufacturing Development (EMD) missile for wind tunnel testing at Arnold Engineering Development Center (AEDC) in Tullahoma, Tennessee. This is a significant milestone to producing and fielding the JASSM-ER variant.

The JASSM ESAF is a development effort designed to improve the reliability of the current JASSM fuze. Design verification is complete and ESAF has successfully completed a series of Insensitive Munitions tests (slow and fast cook-off). Qualification testing of ESAF will begin in the second quarter of FY05.

The JASSM WDL will provide a two-way communication capability between a launched missile and a command and control element. The WDL is planned for JASSM-ER configuration with potential application to the baseline JASSM as a component upgrade to the existing Bomb Impact Assessment (BIA) one-way transmitter. A funded 40 month development program will begin in FY06. A Risk-Reduction Phase is currently underway as part of the Weapons Data Link Network (WDLN) Advanced Concept Technology Demonstration (ACTD). The WDL capability is an enabler for potential JASSM application in emerging requirements such as Maritime Interdiction.

The Air Force Program Executive Office (AF/PEO) for Weapons convened a RET on August 16, 2004 to investigate avenues for improving missile reliability as a result of two open air flight test failures that occurred last summer. The RET completed its work in October 2004 and began a series of out briefs to key stakeholders within the Air Force, Office of the Secretary of Defense (OSD), and Congress. The RET findings concluded the JASSM design is sound, concurred with the Program Office's plan for resuming testing during the Spring of 2005, and recommended award of the Lot 4 production contract. In addition, the RET recommended the Program Office and Lockheed Martin pursue a more focused effort on sub-tier supplier manufacturing process quality controls and the implementation of a robust test program to improve missile reliability. All the key stakeholders (Air Force, OSD, and Congress) concurred with the RET's recommendations and the Program Office's plan for addressing reliability concerns.

On November 22, 2004, the Lot 4 production contract was awarded for 288 missiles. The value of the contract is \$112.3M with deliveries beginning in January/February 2006. This is the fourth of five Firm Fixed Price (FFP) options on contract.

On December 10, 2004, the JASSM team achieved RAA for the F-16 Block 50/52. In addition, the B-1 inventory objective was achieved on December 17, 2004. These declarations mark completion of the near-term RAA milestones for JASSM.

The Department of the Navy eliminated all funding (\$421M) for Navy participation in the JASSM program citing

JASSM as a redundant capability to alternative in-service systems: Tactical Tomahawk, the Joint Standoff Weapon, and the Standoff Land Attack Missile - Expanded Response. Based upon this operational requirements change, 453 missiles were removed from the Navy JASSM FY06-11 budget. FY05 Navy RDT&E funding has been released by OSD to pay for modernization of Mission Planning Software, termination liability and other associated efforts relative to the Navy withdrawing from FY06-11.

JASSM production deliveries continue to meet schedule with 172 operational missiles delivered to Air Combat Command as of the date of this report. Twelve of these missiles are stored at Lackland Air Force Base, Texas, as part of a Standard Air Munitions Package (STAMP) available for immediate worldwide transport should the need arise. Forty-six Lot 2 JASSM production missiles are in route to forward staging points at Andersen Air Force Base, Guam. These are the first JASSMs to be deployed to provide Pacific Air Forces (PACAF) immediate in-theater access. The balance of the remaining missiles are fielded with their respective operational aircraft units.

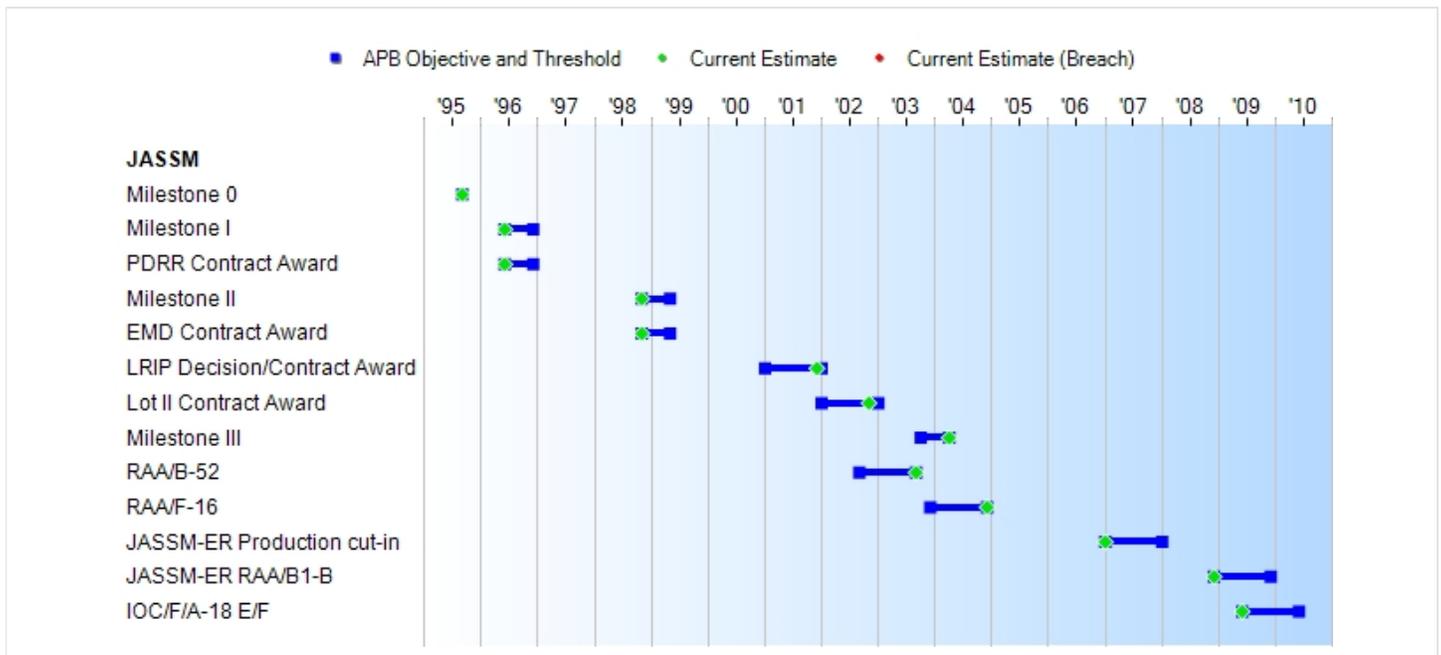
There are no significant software related issues with this program at this time.

**Threshold Breaches**

<b>APB Breaches</b>		
<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"/>

<b>Nunn-McCurdy Breaches</b>		
<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
		Objective	Threshold	
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
Milestone III	OCT 2003	OCT 2003	APR 2004	APR 2004
RAA/B-52	SEP 2002	SEP 2002	SEP 2003	SEP 2003
RAA/F-16	DEC 2003	DEC 2003	DEC 2004	DEC 2004
JASSM-ER Production cut-in	JAN 2007	JAN 2007	JAN 2008	JAN 2007
JASSM-ER RAA/B1-B	DEC 2008	DEC 2008	DEC 2009	DEC 2008
IOC/F/A-18 E/F	JUN 2009	JUN 2009	JUN 2010	JUN 2009

#### Acronyms

EMD - Engineering and Manufacturing Development  
 IOC - Initial Operating Capability  
 LRIP - Low Rate Initial Production  
 PDRR - Program Definition and Risk Reduction  
 RAA - Required Assets Available

#### Change Explanations

None

**Memo**

Notes: The JASSM Milestone III decision was held on April 2004 by MG Chedister, AF/PEO for Weapons; however, it was later determined that the Milestone Decision Authority (MDA) resided with Secretary of Air Force for Acquisition (SAF/AQ) as the Service Acquisition Executive (SAE). Accordingly, the Milestone III decision was reaccomplished in July 2004.

Approved APB thresholds for Low Rate Initial Production (LRIP) Decision/Contract Award, RAA/B-52, RAA/F-16, JASSM-ER Production cut-in, JASSM-ER RAA/B1-B, and IOC/F/A-18 E/F are one year from objective date, not the normal six months. All Current Estimates are within approved thresholds.

RAA for the B-52 is 42 missiles

RAA for the F-16 is 25 missiles

RAA for the JASSM-ER B1-B is 80 missiles

## **Performance**

Note: Classified and unclassified performance parameters are displayed in the Classified DAMIR.

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

APPN 3600 PE 0207325F (Air Force)  
Joint Air-to-Surface Standoff Missile  
APPN 1319 PE 0604312N (Navy)  
Joint Air-to-Surface Standoff Missile

**Procurement**

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

## Cost and Funding

### Cost Summary

#### Total Acquisition Cost and Quantity

Appropriation	BY1995 \$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	1096.6	1096.6	1261.1	1017.4	1199.8	1199.8	1110.5
Procurement	2901.4	2901.4	3336.6	2651.4	3756.2	3756.2	3532.9
Flyaway	2791.6	--	--	--	3617.5	--	--
Recurring	2791.6	--	--	--	3617.5	--	--
Non Recurring	0.0	--	--	0.0	0.0	--	0.0
Support	109.8	--	--	--	138.7	--	--
Other Support	109.8	--	--	--	138.7	--	--
Initial Spares	0.0	--	--	--	0.0	--	--
MILCON	18.4	18.4	21.2	--	25.1	25.1	--
Acq O&M	--	--	--	--	--	--	--
<b>Total</b>	<b>4016.4</b>	<b>4016.4</b>	<b>N/A</b>	<b>3668.8</b>	<b>4981.1</b>	<b>4981.1</b>	<b>4643.4</b>

Note: Procurement funding does not include Seek Eagle funding of \$5.7M (\$2.8M in FY05, and \$2.9M in FY07).

SAR baseline includes Navy funding whereas current estimate has the Navy program zeroed out in FY06-11.

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	94	94	94
Procurement	5353	5353	4900
<b>Total</b>	<b>5447</b>	<b>5447</b>	<b>4994</b>

Note: Total Program Quantity includes 94 fully configured RDT&E units for EMD (88 total for the Air Force of which six units are planned for JASSM ER development and six total for Navy)

The Acquisition Decision Memorandum (ADM) signed on December 21, 2001, gave us the LRIP decision to procure 176 missiles. Congressional language for the FY04 budget dictated that the JASSM program remain in LRIP for Lot 3.

## Funding Summary

### Appropriation and Quantity Summary

#### FY2006 President's Budget / December 2004 SAR (TY\$ M)

Appropriation	Prior	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total
RDT&E	957.6	45.4	67.0	30.7	9.8	0.0	0.0	0.0	0.0	1110.5
Procurement	195.8	136.5	150.2	200.7	309.7	317.1	248.7	200.0	1774.2	3532.9
MILCON	0.0	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	0.0
PB2006 Total	1153.4	181.9	217.2	231.4	319.5	317.1	248.7	200.0	1774.2	4643.4
PB2005 Total	1150.7	218.1	230.9	225.2	337.8	395.8	313.5	249.6	876.9	3998.5
Delta	2.7	-36.2	-13.7	6.2	-18.3	-78.7	-64.8	-49.6	897.3	644.9

Quantity	Prior	FY2005	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	94
Production	416	288	300	258	383	391	312	272	2280	4900
PB2006 Total	416	288	300	258	383	391	312	272	2280	4994
PB2005 Total	416	360	360	260	414	500	419	352	1188	4366
Delta	0	-72	-60	-2	-31	-109	-107	-80	1092	628

## Annual Funding By Appropriation

### Annual Funding TY\$

1319 | RDT&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
1998	--	--	--	--	--	--	5.3
1999	--	--	--	--	--	--	1.8
2000	--	--	--	--	--	--	3.4
2001	--	--	--	--	--	--	2.0
2002	--	--	--	--	--	--	5.9
2003	--	--	--	--	--	--	16.1
2004	--	--	--	--	--	--	19.4
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>53.9</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1998	--	--	--	--	--	--	5.0
1999	--	--	--	--	--	--	1.7
2000	--	--	--	--	--	--	3.1
2001	--	--	--	--	--	--	1.8
2002	--	--	--	--	--	--	5.3
2003	--	--	--	--	--	--	14.3
2004	--	--	--	--	--	--	16.9
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>48.1</b>

## Annual Funding TY\$

## 3600 | RDT&amp;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	--	--	--	--	--	--	48.6
2004	--	--	--	--	--	--	25.5
2005	--	--	--	--	--	--	45.4
2006	--	--	--	--	--	--	67.0
2007	--	--	--	--	--	--	30.7
2008	--	--	--	--	--	--	9.8
<b>Subtotal</b>	<b>88</b>	--	--	--	--	--	<b>1056.6</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1996	--	--	--	--	--	--	26.7
1997	--	--	--	--	--	--	153.5
1998	--	--	--	--	--	--	155.4
1999	--	--	--	--	--	--	114.3
2000	--	--	--	--	--	--	142.8
2001	--	--	--	--	--	--	108.2
2002	--	--	--	--	--	--	74.7
2003	--	--	--	--	--	--	43.3
2004	--	--	--	--	--	--	22.3
2005	--	--	--	--	--	--	38.8
2006	--	--	--	--	--	--	56.2
2007	--	--	--	--	--	--	25.2
2008	--	--	--	--	--	--	7.9
<b>Subtotal</b>	<b>88</b>	--	--	--	--	--	<b>969.3</b>

## Annual Funding TY\$

## 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
2001	--	--	--	--	--	--	0.2
2002	76	--	--	--	--	--	42.7
2003	100	--	--	--	--	--	52.0
2004	240	--	--	--	--	--	100.9
2005	288	--	--	--	--	--	136.5
2006	300	--	--	--	--	--	150.2
2007	258	--	--	--	--	--	200.7
2008	383	--	--	--	--	--	309.7
2009	391	--	--	--	--	--	317.1
2010	312	--	--	--	--	--	248.7
2011	272	--	--	--	--	--	200.0
2012	382	--	--	--	--	--	291.5
2013	382	--	--	--	--	--	293.1
2014	382	--	--	--	--	--	295.0
2015	382	--	--	--	--	--	297.5
2016	382	--	--	--	--	--	299.0
2017	370	--	--	--	--	--	298.1
<b>Subtotal</b>	<b>4900</b>	--	--	--	--	--	<b>3532.9</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
2001	--	--	--	--	--	--	0.2
2002	76	--	--	--	--	--	38.1
2003	100	--	--	--	--	--	45.9
2004	240	--	--	--	--	--	87.5
2005	288	--	--	--	--	--	116.0
2006	300	--	--	--	--	--	125.1
2007	258	--	--	--	--	--	163.7
2008	383	--	--	--	--	--	247.4
2009	391	--	--	--	--	--	248.1
2010	312	--	--	--	--	--	190.6
2011	272	--	--	--	--	--	150.2
2012	382	--	--	--	--	--	214.3
2013	382	--	--	--	--	--	211.0
2014	382	--	--	--	--	--	208.0
2015	382	--	--	--	--	--	205.5
2016	382	--	--	--	--	--	202.3
2017	370	--	--	--	--	--	197.5
<b>Subtotal</b>	<b>4900</b>	--	--	--	--	--	<b>2651.4</b>

Note: Permission to spend \$150K for long lead material in FY01 was received. Required were receiver parts no longer being manufactured for the Lot 1 receivers. The configuration changed in Lot 2.

Procurement funding does not include Seek Eagle funding of \$5.7M. (\$2.8M in FY05, and \$2.9M in FY07).

Total Program Quantity includes 94 fully configured RDT&E units for Engineering and Manufacturing Development (EMD) (88 total for the Air Force of which six units are planned for JASSM Extended Range development and six total for Navy).

**Cost Quantity Information****3020 | Procurement | Missile Procurement, Air Force**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway (Aligned with Quantity) BY 1995 \$M</b>
2001	--	--
2002	76	33.1
2003	100	35.0
2004	240	83.6
2005	288	111.5
2006	300	120.8
2007	258	158.4
2008	383	241.2
2009	391	242.2
2010	312	184.9
2011	272	144.7
2012	382	207.8
2013	382	204.5
2014	382	201.6
2015	382	199.1
2016	382	195.6
2017	370	191.0
<b>Subtotal</b>	<b>4900</b>	<b>2555.0</b>

**Low Rate Initial Production**

None

**Foreign Military Sales**

The USAF developed a "TOPLINE" Export Policy for JASSM in July 2002. Lockheed Martin has marketing and Technical Assistance Agreement licenses with Australia; as well as, marketing license (with provisos) with European Participating Air Forces (EPAF) countries and Spain. Each case will be separately approved. The Program Office has received a request for Pricing and Availability (P&A) data and Letters of Offer and Acceptance (LOA) from two countries.

**Nuclear Cost**

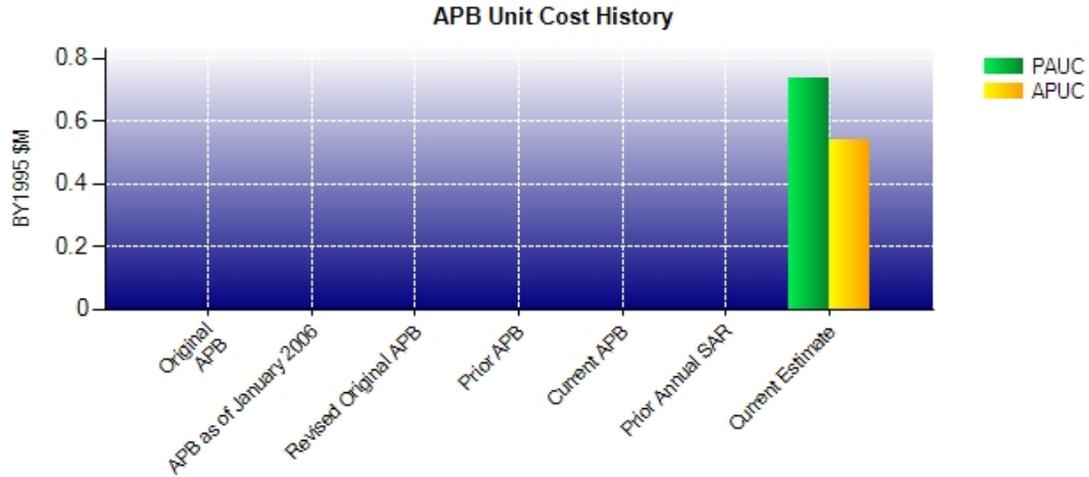
None.

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

<b>Unit Cost</b>	<b>BY1995 \$M</b>		
	<b>Current UCR Baseline (JUL 2004 APB)</b>	<b>Current Estimate (DEC 2004 SAR)</b>	<b>BY % Change</b>
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost	4016.4	3668.8	
Quantity	5447	4994	
Unit Cost	0.737	0.735	-0.27
<b>Average Procurement Unit Cost (APUC)</b>			
Cost	2901.4	2651.4	
Quantity	5353	4900	
Unit Cost	0.542	0.541	-0.18

<b>Unit Cost</b>	<b>BY1995 \$M</b>		
	<b>Original UCR Baseline</b>	<b>Current Estimate (DEC 2004 SAR)</b>	<b>BY % Change</b>
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost		3668.8	
Quantity		4994	
Unit Cost		0.735	+0.00
<b>Average Procurement Unit Cost (APUC)</b>			
Cost		2651.4	
Quantity		4900	
Unit Cost		0.541	+0.00

### Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	N/A	N/A	N/A	N/A	N/A
APB as of January 2006	N/A	N/A	N/A	N/A	N/A
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	N/A	N/A	N/A	N/A	N/A
Current APB	N/A	N/A	N/A	N/A	N/A
Prior Annual SAR	N/A	N/A	N/A	N/A	N/A
Current Estimate	DEC 2004	0.735	0.541	0.930	0.721

### 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	
0.840	-0.021	-0.142	0.049	0.089	0.083	0.000	0.016	0.074	0.914

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

PAUC Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.914	0.021	0.015	0.008	0.000	-0.024	0.000	-0.004	0.016	0.930

**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	
0.504	-0.016	0.039	0.030	0.075	0.053	0.000	0.017	0.198	0.702

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

APUC Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.702	0.020	-0.005	0.008	0.000	0.000	0.000	-0.004	0.019	0.721

**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	4981.1	4643.4
Total Quantity	44	2469	5447	4994
Prog. Acq. Unit Cost (PAUC)	18.439	0.840	0.914	0.930

**Cost Variance**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Prod Est)	1199.8	3756.2	25.1	4981.1
Previous Changes				
Economic	0.0	0.0	0.0	0.0
Quantity	0.0	0.0	0.0	0.0
Schedule	0.0	0.0	0.0	0.0
Engineering	0.0	0.0	0.0	0.0
Estimating	0.0	0.0	-25.1	-25.1
Other	0.0	0.0	0.0	0.0
Support	0.0	0.0	0.0	0.0
Subtotal	0.0	0.0	-25.1	-25.1
Current Changes				
Economic	+5.6	+98.4	--	+104.0
Quantity	--	-345.4	--	-345.4
Schedule	--	+41.4	--	+41.4
Engineering	--	--	--	--
Estimating	-94.9	+0.2	--	-94.7
Other	--	--	--	--
Support	--	-17.9	--	-17.9
Subtotal	-89.3	-223.3	--	-312.6
Total Changes	-89.3	-223.3	-25.1	-337.7
CE - Cost Variance	1110.5	3532.9	--	4643.4
CE - Cost & Funding	1110.5	3532.9	--	4643.4

<b>Summary Base Year 1995 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Prod Est)	1096.6	2901.4	18.4	4016.4
Previous Changes				
Economic	0.0	0.0	0.0	0.0
Quantity	0.0	0.0	0.0	0.0
Schedule	0.0	0.0	0.0	0.0
Engineering	0.0	0.0	0.0	0.0
Estimating	0.0	0.0	-18.4	-18.4
Other	0.0	0.0	0.0	0.0
Support	0.0	0.0	0.0	0.0
Subtotal	0.0	0.0	-18.4	-18.4
Current Changes				
Economic	--	--	--	--
Quantity	--	-248.7	--	-248.7
Schedule	--	0.0	--	0.0
Engineering	--	--	--	--
Estimating	-79.2	+12.1	--	-67.1
Other	--	--	--	--
Support	--	-13.4	--	-13.4
Subtotal	-79.2	-250.0	--	-329.2
Total Changes	-79.2	-250.0	-18.4	-347.6
CE - Cost Variance	1017.4	2651.4	--	3668.8
CE - Cost & Funding	1017.4	2651.4	--	3668.8

Previous Estimate: September 2004

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	+5.6
Navy zeroed out JASSM FY05-FY09. (Estimating)	-99.7	-120.2
Increase for Weapon Data Link. (Estimating)	+36.5	+45.0
Indirect test funding removed from program. (Estimating)	-16.0	-19.7
RDT&E Subtotal	-79.2	-89.3

Procurement	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	+98.4
Navy zeroed out in FY06 PB, Navy quantity decreased from 453 to 0. (Quantity) (QR)	-248.7	-345.4
Allocation to schedule associated with Navy being zeroed out in FY06 PB. (Schedule) (QR)	0.0	+15.0
Allocation to estimating associated with Navy being zeroed out in FY06 PB. (Estimating)	+4.5	+6.5
Navy zeroed out support. (Support)	-13.6	-17.9
Revised Air Force buy profile: FY05 from 360 to 288, FY06 from 360 to 300. (Schedule)	0.0	+26.4
Air Force Adjustment for Current and Prior Inflation. (Estimating)	-3.1	-3.5
Congressional cut in FY05 impacted out year procurement estimate. (Estimating)	+10.7	-2.8
Air Force Adjustment for Current and Prior Inflation. (Support)	-0.3	-0.3
Increase in other weapon support costs. (Support)	+0.5	+0.3
Procurement Subtotal	-250.0	-223.3

(QR) Quantity Related

**Contracts**

**Appropriation: Procurement**

Contract Name	<b>JASSM LRIP (Lot 1)</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08635-02-C-0026, FFP
Award Date	January 14, 2002
Definitization Date	January 14, 2002

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
36.2	N/A	76	38.1	N/A	76	38.1	38.1

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

This contract is 100% complete and this is the last time it will be reported.

**Appropriation: RDT&E**

Contract Name **JASSM LRIP (Lot 2)**  
 Contractor Lockheed Martin  
 Contractor Location Orlando , FL 32819  
 Contract Number, Type F08635-03-C-0010, FFP  
 Award Date November 18, 2002  
 Definitization Date November 18, 2002

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
36.1	N/A	100	44.7	N/A	100	44.7	44.7

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

The current contract price increase from \$43.3M to \$44.7M is due to the procurement of JASSM Test Instrumentation Kits parts.

**Appropriation: RDT&E**

Contract Name	<b>F-/18E-F &amp; JMPS Integrat</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08635-03-C-0059, CPIF
Award Date	April 17, 2003
Definitization Date	April 17, 2003

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
52.9	N/A	6	58.1	N/A	6	58.1	58.1

	Cost Variance	Schedule Variance
Previous Cumulative Variances	+1.5	-0.5
Cumulative Variances To Date	+1.0	-0.6
Net Change	-0.5	-0.1

**Cost And Schedule Variance Explanations**

The unfavorable net schedule variance is due to change in personnel, late subcontractor award for the auto router and late issuing of Test Instrumentation Kit (TIK) and Seeker equipment and material.

The unfavorable net cost variance is due to restructure of the integration program to improve the structural strength of the All-Up-Round (AUR) for arrested landings and to prioritize the Joint Mission Planning System (JMPS) integration to focus on the USAF F-16 integration earlier than the F/A-18.

**Contract Comments**

The increase in current contract price from \$52.9M to \$58.1M is for development of JASSM Unique Planning Component (UPC) and integration with F-16 Block 40/50 UPC, and development of JASSM/JASSM-ER UPC and integration with a B-1B UPC.

**Appropriation: RDT&E**

Contract Name **JASSM ER Phase I**  
 Contractor Lockheed Martin  
 Contractor Location Orlando , FL 32819  
 Contract Number, Type F08635-03-C-0120, FFP  
 Award Date June 27, 2003  
 Definitization Date June 27, 2003

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
9.6	N/A	0	9.6	N/A	0	9.6	9.6

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

This contract is complete and this is the last time that it will be reported.

**Appropriation: RDT&E**

Contract Name **JASSM-ER Phase II**  
 Contractor Lockheed Martin  
 Contractor Location Orlando , FL  
 Contract Number, Type FA8682-04-C-0004, CPAF  
 Award Date February 20, 2004  
 Definitization Date February 20, 2004

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
79.0	N/A	7	79.0	N/A	7	79.0	79.0

	Cost Variance	Schedule Variance
Previous Cumulative Variances	+0.2	-0.3
Cumulative Variances To Date	+0.7	-0.8
Net Change	+0.5	-0.5

**Cost And Schedule Variance Explanations**

The unfavorable net schedule variance is due to late approval of engine qualification and acceptance test plans. Approval of the last plan is scheduled for March with no impact projected to engine tests.

The favorable net cost variance is due to a decrease in Lockheed Martin's overhead rates.

**Contract Comments**

None

<b>Appropriation: Procurement</b>
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Contract Name	<b>JASSM LRIP (Lot 3/Lot 4)</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	FA8682-04-C-0060, FFP
Award Date	November 26, 2003
Definitization Date	November 26, 2003

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
76.4	N/A	200	211.1	N/A	528	211.1	211.1

<b>Cost And Schedule Variance Explanations</b>
--

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

<b>Contract Comments</b>
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The increase in current contract price from \$98.8M to \$211.1M is due to the exercise of Lot 4 production option purchasing 288 missiles.

<b>Appropriation: RDT&amp;E</b>	
Contract Name	<b>PTM to PC</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	FA8682-04-C-0200, CPFF
Award Date	May 26, 2004
Definitization Date	May 26, 2004

<b>Initial Contract Price (\$M)</b>			<b>Current Contract Price (\$M)</b>			<b>Estimated Price At Completion (\$M)</b>	
<b>Target</b>	<b>Ceiling</b>	<b>Qty</b>	<b>Target</b>	<b>Ceiling</b>	<b>Qty</b>	<b>Contractor</b>	<b>Program Manager</b>
17.5	N/A	0	17.5	N/A	0	17.5	17.5

	<b>Cost Variance</b>	<b>Schedule Variance</b>
Previous Cumulative Variances	--	--
Cumulative Variances To Date	+0.2	-0.2
Net Change	+0.2	-0.2

**Cost And Schedule Variance Explanations**

The unfavorable net schedule variance is due to late ramp-up of manpower and delays to initial computer hardware buys.

The favorable net cost variance is due to the decision not to use some software development packages and lower than anticipated travel associated with the Interface Control Document (ICD) work.

**Contract Comments**

None

**Deliveries and Expenditures**

<b>Deliveries To Date</b>	<b>Plan</b>	<b>Actual</b>	<b>Total Quantity</b>	<b>Percent Delivered</b>
Development	94	94	94	100.00%
Production	172	172	4900	3.51%
<b>Total Program Quantities Delivered</b>	<b>266</b>	<b>266</b>	<b>4994</b>	<b>5.33%</b>

<b>Expenditures and Appropriations (TY \$M)</b>			
Total Acquisition Cost	4643.4	Years Appropriated	10
Expenditures To Date	1061.2	Percent Years Appropriated	45.45%
Percent Expended	22.85%	Appropriated to Date	1335.3
Total Funding Years	22	Percent Appropriated	28.76%

## Operating and Support Cost

### Assumptions and Ground Rules

The JASSM Operations and Support Estimate includes requirements for 4,994 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 bumper-to-bumper warranty is assumed with a 20-year shelf life and the subsequent demilitarization of the weapon. The JASSM program office will function as the Air Force Logistics Center (ALC).

The latest O&S cost estimate was December 2004.

There is no antecedent system for JASSM.

#### Costs BY1995 \$K

Cost Element	JASSM Avg Annual Cost Per Missile	N/A
Mission Pay & Allowance	0.0	--
Unit Level Consumption	0.0	--
Intermediate Maintenance	0.0	--
Depot Maintenance	0.0	--
Contractor Support	2.2	--
Sustaining Support	0.0	--
Indirect	0.0	--
Other	--	--
Total Unitized Cost (Base Year 1995 \$)	2.2	--

Total O&S Costs \$M	JASSM	N/A
Base Year	219.1	--
Then Year	374.5	--



# Defense Acquisition Management Information Retrieval (DAMIR)



## Selected Acquisition Report (SAR)

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



### **JASSM**

As of December 31, 2005

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

USN

## Responsible Office

### Responsible Office

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**DSN Fax** --

**Date Assigned** August 11, 2004

## References

### SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated November 9, 1998

### Approved APB

AFAE Approved Acquisition Program Baseline (APB) dated July 14, 2004

## Mission and Description

The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation air-to-surface missile that will enable Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack both fixed and relocatable targets ranging from non-hardened above ground to moderately hardened buried point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM Extended Range (JASSM-ER) variant's increased standoff range will allow the precision attack of high value targets deeper into enemy territory, while minimizing the threat to the launch aircraft. The JASSM does not replace any existing weapon system for the Air Force.

## Executive Summary

The JASSM Program Office accomplished many significant milestones in this reporting period to include the successful completion of the FY 05 test program with nine of eleven missiles impacting targets, the successful prove-out of the JASSM Functional Ground Test (FGT) Facility, the declaration of Initial Operational Capability (IOC) for the B-1 and B-52, and the delivery of the 300th baseline missile to Air Combat Command.

The JASSM team has been aggressively implementing recommendations of the Reliability Enhancement Team (RET) review last year. Results of our efforts were evident in the FY05 flight test program and we expect reliability to continue to mature over time. We are still working to resolve two issues which surfaced during the flight test program last year. We are evaluating some minor Global Positioning System drop outs that occurred on several of our flight test events. However, these drop outs do not represent a significant technical issue and did not impact missile performance or flight test results. In addition, we experienced a slow climb out anomaly on some of the flights. We continue to work a parallel path of root cause determination through a systematic engineering and evaluation program, including additional wind tunnel testing, as well as a straightforward software modification to address any impacts to the flight envelope.

As part of the ongoing reliability program, a combined team from the Long Range Missile Group, 46th Test Wing and Lockheed Martin developed, proved out and utilized a FGT Facility. Ground testing provides outstanding insight into the operational reliability of the JASSM missile. The program exercises 95% of the missile's inflight functions and tests missiles through all phases of their flight from launch through cruise to terminal functions. The missiles are environmentally preconditioned using a combination of captive carriage on Eglin's test aircraft, as well as temperature conditioning of the missile prior to testing. Reliability testing using this facility gives the Air Force the capability to remove a weapon from inventory, render it safe, instrument it, environmentally condition it, and then disassemble it to look for advance indication of possible failure modes. It is significantly more cost effective than flight testing and unlike flight testing, ground testing provides significant insight into reliability by allowing for post-test detailed analyses of hardware which would normally be destroyed after ground impact/warhead detonation in a flight test. System improvement opportunities uncovered in testing can then be inserted into production to ensure the Warfighter has the highest quality and most reliable system possible. To date, two baseline and one Extended Range (ER) JASSMs have been tested and are currently undergoing post-test analysis.

The JASSM-ER program is the Block 2 variant of the JASSM AGM-158A and incorporates a new, more efficient engine and larger fuel tanks to provide increased missile range. A number of development milestones were reached on this program during the year. In January 2005, Full Scale "Pole Model" Testing verified the minor exterior changes to the missile did not degrade its stealth characteristics from the baseline JASSM. Engine development testing followed and culminated in engine qualification testing in August 2005. Fuel system testing completed in September 2005 including an integrated test with the new Williams F107-WR-105 engine. Also in September 2005, integrated missile and engine testing was performed at Arnold Engineering Development Center's wind-tunnel facility and verified inlet-to-engine compatibility and performance. This success was followed by a November 2005 Jettison Test (JT) and completion of the Instrumentation Measurement Vehicle (IMV) testing which demonstrated safe separation characteristics and verified dynamic and environmental carriage conditions, respectively, in the B-1B aircraft. The completion of these efforts, along with software integration testing, marked substantial steps in B-1B integration testing, clearing the way for the first JASSM-ER development flight test from a B-1B. Finally, the Long Range Missile Systems Group, 46th Test Wing, and Lockheed Martin successfully conducted the first Functional Ground Test of an Extended Range missile. This end-to-end test provided verification of functional design prior to production of the DT-1 missile and initiated the system-level reliability data base for the AGM-158B. It was also one of several reliability initiatives the program is undertaking as a result of lessons learned from the baseline JASSM program. Along those lines, the program has more than doubled the number of flight tests planned. In parallel, the team is preparing for flight test beginning in May 2006 and initial production cut-in in with JASSM Lot 6 in January 2007. Many of the small quantity of JASSM-ERs to be purchased in Lot 6 will be used for operational test and continued reliability growth.

The JASSM Electronic Safe and Arm Fuze (ESAF) is a development effort designed to improve the reliability of the current JASSM fuze. Design verification is complete and ESAF has successfully completed a series of Insensitive Munitions tests (slow and fast cook-off), howitzer testing (gun-fired sled test precursor shots), and the first four of eight sled tests. Environmental qualification testing is near completion and safety qualification testing will be complete at the end of second quarter FY06. Sled testing is scheduled to complete during third quarter FY06 and flight testing will take place in the fourth quarter.

The JASSM Weapons Data Link (WDL) will provide a two-way communication capability between a launched missile and a command and control (C2) element. The WDL is planned for JASSM-ER configuration with potential application to the baseline JASSM as a component upgrade to the existing Bomb Impact Assessment (BIA) one-way transmitter. A funded 40 month development program will begin in FY06. A Risk-Reduction Phase is currently underway as part of the Weapons Data Link Network Advanced Concept Technology Demonstration. The WDL capability is an enabler for potential JASSM application in emerging requirements such as Maritime Interdiction.

On November 1, 2005, JASSM delivered its 300th baseline missile to Air Combat Command's (ACC) 7th Bomb Wing at Dyess Air Force Base, Texas. The 7th Bomb Wing has worked closely with the Long Range Missile Systems Group to rapidly field JASSM onto the B-1.

On August 15, 2005, Commander Air Combat Command approved IOC for JASSM on the B-1 and B-52. These were significant milestones for the JASSM program, showing ACC's confidence in the weapon.

JASSM production deliveries continue to meet schedule with 344 operational missiles delivered as of the date of this report. JASSM production missiles are stored at Andersen AFB, Guam with additional missiles at port, staging for shipment to Andersen. There are also missiles staged at Letterkenny Army Depot for shipment to United States Air Forces Europe. These are the first missiles to be shipped to the European Theater. The balance of the delivered missiles are fielded with their respective operational aircraft units.

There are no significant software related issues with this program at this time.

### Threshold Breaches

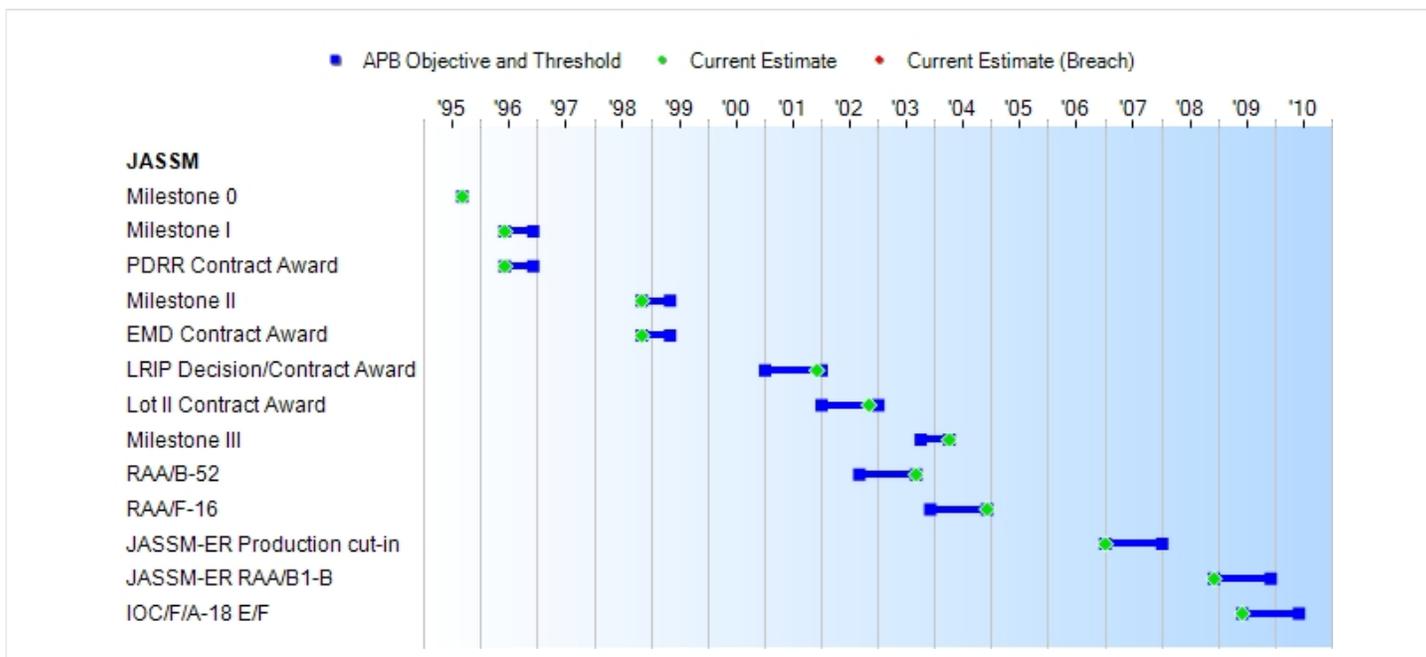
APB Breaches		
<b>Schedule</b>		<input type="checkbox"/>
<b>Performance</b>		<input type="checkbox"/>
<b>Cost</b>	RDT&E	<input type="checkbox"/>
	Procurement	<input type="checkbox"/>
	MILCON	<input type="checkbox"/>
	Acq O&M	<input type="checkbox"/>
<b>Unit Cost</b>	PAUC	<input type="checkbox"/>
	APUC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

#### Explanation of Breach

In accordance with the FY 2006 National Defense Authorization Act (P.L. 109-163), the Department is required to report Nunn-McCurdy unit cost breaches to the "original" Acquisition Program Baseline (APB), i.e., the APB established at Milestone B (previously Milestone II). Accordingly, this program is reporting an increase in the Program Acquisition Unit Cost (PAUC) or Average Procurement Unit Cost (APUC) of at least 30% to the "original" APB. Additional unit cost breach information is provided in the Unit Cost Information section of this Selected Acquisition Report.

Nunn-McCurdy Breaches		
<b>Current UCR Baseline</b>		
	PAUC	None
	APUC	None
<b>Original UCR Baseline</b>		
	PAUC	None
	APUC	Significant

### Schedule



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
Milestone III	OCT 2003	OCT 2003	APR 2004	APR 2004
RAA/B-52	SEP 2002	SEP 2002	SEP 2003	SEP 2003
RAA/F-16	DEC 2003	DEC 2003	DEC 2004	DEC 2004
JASSM-ER Production cut-in	JAN 2007	JAN 2007	JAN 2008	JAN 2007
JASSM-ER RAA/B1-B	DEC 2008	DEC 2008	DEC 2009	DEC 2008
IOC/F/A-18 E/F	JUN 2009	JUN 2009	JUN 2010	JUN 2009

#### Acronyms

EMD - Engineering and Manufacturing Development  
 IOC - Initial Operating Capability  
 LRIP - Low Rate Initial Production  
 PDRR - Program Definition and Risk Reduction  
 RAA - Required Assets Available

#### Change Explanations

None

**Memo**

The JASSM Milestone III decision was held in April 2004 by the Air Force Program Executive Officer for Weapons; however, it was later determined that the Milestone Decision Authority resided with Secretary of Air Force for Acquisition as the Service Acquisition Executive. Accordingly, the Milestone III decision was reaccomplished in July 2004.

Approved APB thresholds for Low-Rate Initial Production (LRIP) Decision/Contract Award, RAA/B-52, RAA/F-16, JASSM-ER Production cut-in, JASSM-ER RAA/B1-B, and IOC/F/A-18 E/F are one year from objective date, not the normal six months. All Current Estimates are within approved thresholds.

RAA for the B-52 is 42 missiles

RAA for the F-16 is 25 missiles

RAA for the JASSM-ER B1-B is 80 missiles

## **Performance**

Note: Classified and unclassified performance parameters are displayed in the Classified DAMIR.

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

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

APPN 1319 PE 0604312N (Navy) (Shared) SUNK  
Joint Air-to-Surface Standoff Missile

**Procurement**

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

## Cost and Funding

### Cost Summary

#### Total Acquisition Cost and Quantity

Appropriation	BY1995 \$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	1096.6	1096.6	1261.1	1023.0	1199.8	1199.8	1119.1
Procurement	2901.4	2901.4	3336.6	2759.7	3756.2	3756.2	3794.9
Flyaway	2791.6	--	--	--	3617.5	--	--
Recurring	2791.6	--	--	--	3617.5	--	--
Non Recurring	0.0	--	--	0.0	0.0	--	0.0
Support	109.8	--	--	--	138.7	--	--
Other Support	109.8	--	--	--	138.7	--	--
Initial Spares	0.0	--	--	--	0.0	--	--
MILCON	18.4	18.4	21.2	--	25.1	25.1	--
Acq O&M	--	--	--	--	--	--	--
<b>Total</b>	<b>4016.4</b>	<b>4016.4</b>	<b>N/A</b>	<b>3782.7</b>	<b>4981.1</b>	<b>4981.1</b>	<b>4914.0</b>

Procurement funding does not include Seek Eagle funding of \$5.7M (\$2.8M in FY05, and \$2.9M in FY07).

SAR Production Estimate includes Navy funding whereas Current Estimate has the Navy program zeroed out in FY06-11.

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	94	94	94
Procurement	5353	5353	4900
<b>Total</b>	<b>5447</b>	<b>5447</b>	<b>4994</b>

Total Program Quantity includes 94 fully configured RDT&E units for EMD (88 total for the Air Force of which six units are planned for JASSM ER development and six total for Navy)

The Acquisition Decision Memorandum signed on December 21, 2001, approved the Low-Rate Initial Production (LRIP) decision to procure 176 missiles. Congressional language for the FY04 budget dictated that the JASSM program remain in LRIP for Lot 3.

## Funding Summary

### Appropriation and Quantity Summary

#### FY2007 President's Budget / December 2005 SAR (TY\$ M)

Appropriation	Prior	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total
RDT&E	1002.3	66.0	40.9	9.9	0.0	0.0	0.0	0.0	1119.1
Procurement	332.2	98.7	184.2	233.8	343.0	292.4	204.0	2106.6	3794.9
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
PB2007 Total	1334.5	164.7	225.1	243.7	343.0	292.4	204.0	2106.6	4914.0
PB2006 Total	1335.3	217.2	231.4	319.5	317.1	248.7	200.0	1774.2	4643.4
Delta	-0.8	-52.5	-6.3	-75.8	25.9	43.7	4.0	332.4	270.6

Quantity	Prior	FY2006	FY2007	FY2008	FY2009	FY2010	FY2011	To Complete	Total
Development	0	0	0	0	0	0	0	0	94
Production	704	75	234	272	415	361	272	2567	4900
PB2007 Total	704	75	234	272	415	361	272	2567	4994
PB2006 Total	704	300	258	383	391	312	272	2280	4994
Delta	0	-225	-24	-111	24	49	0	287	0

## Annual Funding By Appropriation

### Annual Funding TY\$

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1998	--	--	--	--	--	--	5.0
1999	--	--	--	--	--	--	1.7
2000	--	--	--	--	--	--	3.1
2001	--	--	--	--	--	--	1.8
2002	--	--	--	--	--	--	5.3
2003	--	--	--	--	--	--	14.3
2004	--	--	--	--	--	--	18.2
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>49.4</b>

## Annual Funding TY\$

## 3600 | RDT&amp;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	--	--	--	--	--	--	48.6
2004	--	--	--	--	--	--	25.5
2005	--	--	--	--	--	--	43.3
2006	--	--	--	--	--	--	66.0
2007	--	--	--	--	--	--	40.9
2008	--	--	--	--	--	--	9.9
<b>Subtotal</b>	<b>88</b>	--	--	--	--	--	<b>1063.8</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1996	--	--	--	--	--	--	26.7
1997	--	--	--	--	--	--	153.5
1998	--	--	--	--	--	--	155.4
1999	--	--	--	--	--	--	114.3
2000	--	--	--	--	--	--	142.8
2001	--	--	--	--	--	--	108.1
2002	--	--	--	--	--	--	74.7
2003	--	--	--	--	--	--	43.3
2004	--	--	--	--	--	--	22.2
2005	--	--	--	--	--	--	36.8
2006	--	--	--	--	--	--	54.7
2007	--	--	--	--	--	--	33.2
2008	--	--	--	--	--	--	7.9
<b>Subtotal</b>	<b>88</b>	--	--	--	--	--	<b>973.6</b>

## Annual Funding TY\$

## 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
2001	--	--	--	--	--	--	0.2
2002	76	--	--	--	--	--	42.7
2003	100	--	--	--	--	--	52.0
2004	240	--	--	--	--	--	100.9
2005	288	--	--	--	--	--	136.4
2006	75	--	--	--	--	--	98.7
2007	234	--	--	--	--	--	184.2
2008	272	--	--	--	--	--	233.8
2009	415	--	--	--	--	--	343.0
2010	361	--	--	--	--	--	292.4
2011	272	--	--	--	--	--	204.0
2012	359	--	--	--	--	--	291.7
2013	359	--	--	--	--	--	293.2
2014	359	--	--	--	--	--	287.8
2015	359	--	--	--	--	--	290.2
2016	359	--	--	--	--	--	291.1
2017	359	--	--	--	--	--	294.4
2018	413	--	--	--	--	--	358.2
<b>Subtotal</b>	<b>4900</b>	--	--	--	--	--	<b>3794.9</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
2001	--	--	--	--	--	--	0.2
2002	76	--	--	--	--	--	38.1
2003	100	--	--	--	--	--	45.8
2004	240	--	--	--	--	--	87.1
2005	288	--	--	--	--	--	114.6
2006	75	--	--	--	--	--	81.1
2007	234	--	--	--	--	--	148.1
2008	272	--	--	--	--	--	183.9
2009	415	--	--	--	--	--	264.3
2010	361	--	--	--	--	--	220.7
2011	272	--	--	--	--	--	150.7
2012	359	--	--	--	--	--	210.9
2013	359	--	--	--	--	--	207.4
2014	359	--	--	--	--	--	199.2
2015	359	--	--	--	--	--	196.5
2016	359	--	--	--	--	--	192.9
2017	359	--	--	--	--	--	190.9
2018	413	--	--	--	--	--	227.3
<b>Subtotal</b>	<b>4900</b>	--	--	--	--	--	<b>2759.7</b>

Note: Permission to spend \$150K for long lead material in FY01 was received. Required were receiver parts no longer being manufactured for the Lot 1 receivers. The configuration changed in Lot 2.

Procurement funding does not include Seek Eagle funding of \$5.7M. (\$2.8M in FY05, and \$2.9M in FY07).

Total Program Quantity of 4994 includes 94 fully configured RDT&E units for Engineering and Manufacturing Development (EMD) (88 total for the Air Force of which six units are planned for JASSM Extended Range development and six total for Navy).

**Cost Quantity Information****3020 | Procurement | Missile Procurement, Air Force**

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway (Aligned with Quantity) BY 1995 \$M</b>
2001	--	--
2002	76	33.1
2003	100	35.0
2004	240	82.4
2005	288	111.0
2006	75	77.6
2007	234	143.6
2008	272	179.5
2009	415	259.1
2010	361	215.8
2011	272	146.2
2012	359	206.1
2013	359	202.7
2014	359	194.0
2015	359	191.3
2016	359	187.8
2017	359	185.7
2018	413	221.9
<b>Subtotal</b>	<b>4900</b>	<b>2672.8</b>

**Low Rate Initial Production**

None

**Foreign Military Sales**

The USAF developed a "TOPLINE" Export Policy for JASSM in July 2002. Lockheed Martin has marketing and Technical Assistance Agreement licenses with Australia, as well as marketing license (with provisos) with European Participating Air Forces countries and Spain. Each case will be separately approved. The Program Office has received a request for Pricing and Availability data and Letters of Offer and Acceptance from two countries.

**Nuclear Cost**

None.

## Unit Cost

### Unit Cost Report

Unit Cost	BY1995 \$M		
	Current UCR Baseline (JUL 2004 APB)	Current Estimate (DEC 2005 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	4016.4	3782.7	
Quantity	5447	4994	
Unit Cost	0.737	0.757	+2.71
Average Procurement Unit Cost (APUC)			
Cost	2901.4	2759.7	
Quantity	5353	4900	
Unit Cost	0.542	0.563	+3.87

Unit Cost	BY1995 \$M		
	Original UCR Baseline (NOV 1998 APB)	Current Estimate (DEC 2005 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	1749.5	3782.7	
Quantity	2469	4994	
Unit Cost	0.709	0.757	+6.77
Average Procurement Unit Cost (APUC)			
Cost	960.0	2759.7	
Quantity	2400	4900	
Unit Cost	0.400	0.563	+40.75 <sup>1</sup>

Unit Cost	TY \$M		
	Current UCR Baseline (JUL 2004 APB)	Current Estimate (DEC 2005 SAR)	TY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	4981.1	4914.0	
Unit Cost	0.914	0.984	+7.66
Average Procurement Unit Cost (APUC)			
Cost	3756.2	3794.9	
Unit Cost	0.702	0.774	+10.26

Unit Cost	TY \$M		
	Original UCR Baseline (NOV 1998 APB)	Current Estimate (DEC 2005 SAR)	TY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	2073.3	4914.0	
Unit Cost	0.840	0.984	+17.14
Average Procurement Unit Cost (APUC)			
Cost	1209.6	3794.9	
Unit Cost	0.504	0.774	+53.57

### <sup>1</sup> Nunn-McCurdy Breach

#### Unit Cost Breach Data

Changes from Previous SAR	\$M/Qty.	Percent
PAUC (BY \$M)	0.022	+3.10
APUC (BY \$M)	0.022	+4.08
PAUC Quantity		0.00
PAUC (TY \$M)	0.054	+5.83
APUC (TY \$M)	0.053	+7.42

Initial SAR Information DEC 2001	BY1995 \$M	TY \$M
Program Aquisition Cost	2574.3	3119.6

#### Unit Cost PAUC Changes

#### Unit Cost APUC Changes

The "Original Baseline" unit cost measure for Average Procurement Unit Cost (APUC) established during Engineering Manufacturing Development (1998) included 2,400 baseline missiles. Operational Requirements Document (ORD) changes during Low-Rate Initial Production and Milestone III (Full Rate Production) have increased the total number of missiles to 4,900 and changed the mix to include 2,400 baseline and 2,500 Extended Range (ER) missiles. Accordingly, changes in ORD requirements since Milestone II have caused APUC to increase by more than 30% which represents "significant cost growth" as defined in the FY06 Nunn-McCurdy legislation.

#### Impact of Performance or Schedule Changes

The "Original Baseline" unit cost measure for Average Procurement Unit Cost (APUC) established during Engineering Manufacturing Development (1998) included 2,400 baseline missiles. Operational Requirements Document (ORD) changes during Low-Rate Initial Production and Milestone III (Full Rate Production) have increased the total number of missiles to 4,900 and changed the mix to include 2,400 baseline and 2,500 Extended Range (ER) missiles. Accordingly, changes in ORD requirements since Milestone II have caused APUC to increase by more than 30% which represents "significant cost growth" as defined in the FY06 Nunn-McCurdy legislation.

#### Program Management or Control

The "Original Baseline" unit cost measure for Average Procurement Unit Cost (APUC) established during Engineering Manufacturing Development (1998) included 2,400 baseline missiles. Operational Requirements

Document (ORD) changes during Low-Rate Initial Production and Milestone III (Full Rate Production) have increased the total number of missiles to 4,900 and changed the mix to include 2,400 baseline and 2,500 Extended Range (ER) missiles. Accordingly, changes in ORD requirements since Milestone II have caused APUC to increase by more than 30% which represents "significant cost growth" as defined in the FY06 Nunn-McCurdy legislation.

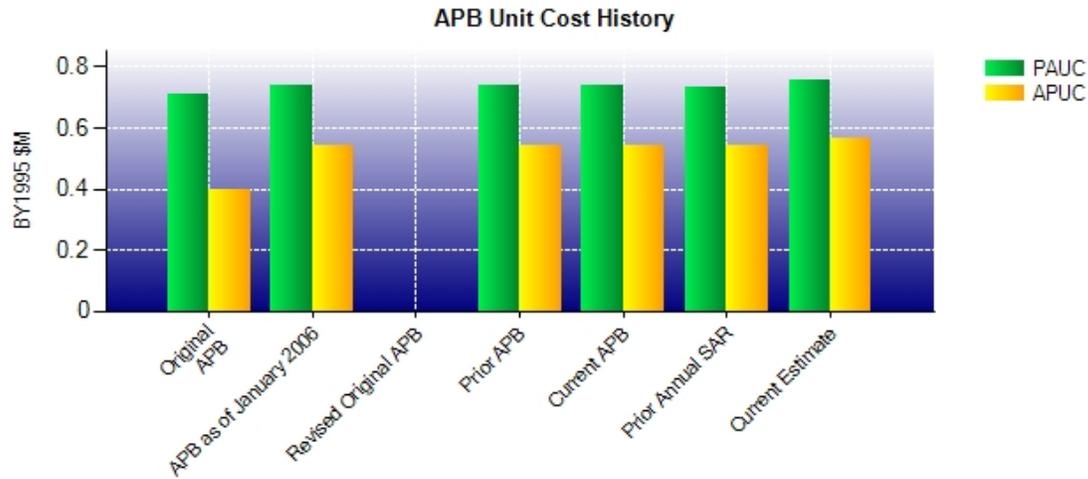
#### **Cost Control Actions**

The "Original Baseline" unit cost measure for Average Procurement Unit Cost (APUC) established during Engineering Manufacturing Development (1998) included 2,400 baseline missiles. Operational Requirements Document (ORD) changes during Low-Rate Initial Production and Milestone III (Full Rate Production) have increased the total number of missiles to 4,900 and changed the mix to include 2,400 baseline and 2,500 Extended Range (ER) missiles. Accordingly, changes in ORD requirements since Milestone II have caused APUC to increase by more than 30% which represents "significant cost growth" as defined in the FY06 Nunn-McCurdy legislation.

#### **Nunn-McCurdy Comments**

The "Original Baseline" unit cost measure for Average Procurement Unit Cost (APUC) established during Engineering Manufacturing Development (1998) included 2,400 baseline missiles. Operational Requirements Document (ORD) changes during Low-Rate Initial Production and Milestone III (Full Rate Production) have increased the total number of missiles to 4,900 and changed the mix to include 2,400 baseline and 2,500 Extended Range (ER) missiles. Accordingly, changes in ORD requirements since Milestone II have caused APUC to increase by more than 30% which represents "significant cost growth" as defined in the FY06 Nunn-McCurdy legislation.

### Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
<b>Original APB</b>	NOV 1998	0.709	0.400	0.840	0.504
<b>APB as of January 2006</b>	JUL 2004	0.737	0.542	0.914	0.702
<b>Revised Original APB</b>	N/A	N/A	N/A	N/A	N/A
<b>Prior APB</b>	MAR 2004	0.737	0.542	0.914	0.702
<b>Current APB</b>	JUL 2004	0.737	0.542	0.914	0.702
<b>Prior Annual SAR</b>	DEC 2004	0.735	0.541	0.930	0.721
<b>Current Estimate</b>	DEC 2005	0.757	0.563	0.984	0.774

The June 14, 1996 SAR Planning estimate consisted of a quantity of 44 missiles for RDT&E with BY funding of \$732.4M (PAUC - \$16.645M). The November 9, 1998 Development APB reflected a quantity of 2469 (69 RDT&E & 2400 production missiles) with total BY funding of \$1,749.5 ( \$771.1M RDT&E, \$960.0M production, & \$18.4M MILCON)(PAUC -\$.709M & APUC - \$.400M). The November 1998 APB provides a more accurate assessment of PAUC and APUC.

### 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	
0.840	-0.021	-0.142	0.049	0.089	0.083	0.000	0.016	0.074	0.914

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

PAUC Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.914	0.035	0.014	0.024	0.002	0.002	0.000	-0.007	0.070	0.984

**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	
0.504	-0.016	0.039	0.030	0.075	0.053	0.000	0.017	0.198	0.702

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

APUC Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.702	0.034	-0.006	0.024	0.000	0.027	0.000	-0.007	0.072	0.774

**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	4981.1	4914.0
Total Quantity	44	2469	5447	4994
Prog. Acq. Unit Cost (PAUC)	18.439	0.840	0.914	0.984

IOC represents Required Assets Available (RAA) for B-52 declared at Barksdale AFB on September 24, 2003.

**Cost Variance**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Prod Est)	1199.8	3756.2	25.1	4981.1
Previous Changes				
Economic	+5.6	+98.4	0.0	+104.0
Quantity	0.0	-345.4	0.0	-345.4
Schedule	0.0	+41.4	0.0	+41.4
Engineering	0.0	0.0	0.0	0.0
Estimating	-94.9	+0.2	-25.1	-119.8
Other	0.0	0.0	0.0	0.0
Support	0.0	-17.9	0.0	-17.9
Subtotal	-89.3	-223.3	-25.1	-337.7
Current Changes				
Economic	+1.8	+66.9	--	+68.7
Quantity	--	--	--	--
Schedule	--	+78.4	--	+78.4
Engineering	+10.0	--	--	+10.0
Estimating	-3.2	+131.7	--	+128.5
Other	--	--	--	--
Support	--	-15.0	--	-15.0
Subtotal	+8.6	+262.0	--	+270.6
Total Changes	-80.7	+38.7	-25.1	-67.1
CE - Cost Variance	1119.1	3794.9	--	4914.0
CE - Cost & Funding	1119.1	3794.9	--	4914.0

<b>Summary Base Year 1995 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Prod Est)	1096.6	2901.4	18.4	4016.4
Previous Changes				
Economic	0.0	0.0	0.0	0.0
Quantity	0.0	-248.7	0.0	-248.7
Schedule	0.0	0.0	0.0	0.0
Engineering	0.0	0.0	0.0	0.0
Estimating	-79.2	+12.1	-18.4	-85.5
Other	0.0	0.0	0.0	0.0
Support	0.0	-13.4	0.0	-13.4
Subtotal	-79.2	-250.0	-18.4	-347.6
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	0.0	--	0.0
Engineering	+8.1	--	--	+8.1
Estimating	-2.5	+117.8	--	+115.3
Other	--	--	--	--
Support	--	-9.5	--	-9.5
Subtotal	+5.6	+108.3	--	+113.9
Total Changes	-73.6	-141.7	-18.4	-233.7
CE - Cost Variance	1023.0	2759.7	--	3782.7
CE - Cost & Funding	1023.0	2759.7	--	3782.7

Previous Estimate: December 2004

<b>RDT&amp;E</b>	<b>\$M</b>	
	<b>Base Year</b>	<b>Then Year</b>
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	+1.8
Increase for Maritime Interdiction (Engineering)	+8.1	+10.0
Adjustment for Current and Prior Inflation. (Estimating)	-2.5	-3.2
RDT&E Subtotal	+5.6	+8.6

<b>Procurement</b>	<b>\$M</b>	
	<b>Base Year</b>	<b>Then Year</b>
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	+66.9
Stretchout of annual procurement buy profile. (Schedule)	0.0	+78.4
Adjustment for Current and Prior Inflation. (Estimating)	-3.0	-3.6
Congressional reduction in FY06 and Air Force's funding adjustments impacted out year procurement estimate. (Estimating)	+120.8	+135.3
Reduction in Other Wpn System Costs (Support)	-9.5	-15.0
Procurement Subtotal	+108.3	+262.0

## Contracts

### Appropriation: RDT&E

Contract Name	<b>JASSM LRIP (Lot 2)</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08635-03-C-0010, FFP
Award Date	November 18, 2002
Definitization Date	November 18, 2002

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
36.1	N/A	100	44.7	N/A	100	44.7	44.7

### Cost And Schedule Variance Explanations

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

### Contract Comments

The current contract price increase from \$36.1M to \$44.7M due to the following additions to the contract: Operational Safety, Suitability and Effectiveness (OSS&E) Program, procurement of Dummy Air Training Missiles (DATM), Key Data Processor (KDP) Reprogramming Cable and Software effort, mission planning sustainment support, and procurement of JASSM Test Instrumentation Kits parts.

<b>Appropriation: RDT&amp;E</b>
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Contract Name	<b>F-/18E-F &amp; JMPS Integrat</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08635-03-C-0059, CPIF
Award Date	April 17, 2003
Definitization Date	April 17, 2003

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
52.9	N/A	6	58.1	N/A	6	58.1	58.1

	Cost Variance	Schedule Variance
Previous Cumulative Variances	+1.0	-0.6
Cumulative Variances To Date (12/31/2004)	+1.0	-0.6
Net Change	+0.0	+0.0
Percent Variance		
Percent Complete		

<b>Cost And Schedule Variance Explanations</b>
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None

<b>Contract Comments</b>
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The Navy ended its participation in the program in FY05. Contract Performance Report data will resume when termination negotiations are finalized and the contract is restructured.

<b>Appropriation: RDT&amp;E</b>
---------------------------------

Contract Name	JASSM-ER Phase II
Contractor	Lockheed Martin
Contractor Location	Orlando , FL
Contract Number, Type	FA8682-04-C-0004, CPAF
Award Date	February 20, 2004
Definitization Date	February 20, 2004

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
79.0	N/A	7	79.0	N/A	7	79.0	79.0

	Cost Variance	Schedule Variance
Previous Cumulative Variances	+0.7	-0.8
Cumulative Variances To Date	+1.4	-2.5
Net Change	+0.7	-1.7
Percent Variance		
Percent Complete		

<b>Cost And Schedule Variance Explanations</b>
--

The favorable net cost variance is due to a decrease in Lockheed Martin's overhead rates and efficiencies on work performed.

The unfavorable net schedule variance is due to late deliveries by subcontractors for the fuel tanks and telemetry hardware, as well as missed development milestones for engines. These should not impact future projected milestones.

<b>Contract Comments</b>
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None

<b>Appropriation: Procurement</b>
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Contract Name	<b>JASSM LRIP (Lot 3/Lot 4)</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	FA8682-04-C-0060, FFP
Award Date	November 26, 2003
Definitization Date	November 26, 2003

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
76.4	N/A	200	211.1	N/A	528	211.1	211.1

<b>Cost And Schedule Variance Explanations</b>
--

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

<b>Contract Comments</b>
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The increase in current contract price to \$211.1M due to the exercise of Lot 4 production option purchasing 288 missiles.

**Deliveries and Expenditures**

<b>Deliveries To Date</b>	<b>Plan</b>	<b>Actual</b>	<b>Total Quantity</b>	<b>Percent Delivered</b>
Development	94	94	94	100.00%
Production	344	344	4900	7.02%
<b>Total Program Quantities Delivered</b>	<b>438</b>	<b>438</b>	<b>4994</b>	<b>8.77%</b>

**Expenditures and Appropriations (TY \$M)**

Total Acquisition Cost	4914.0	Years Appropriated	11
Expenditures To Date	1238.3	Percent Years Appropriated	47.83%
Percent Expended	25.20%	Appropriated to Date	1499.2
Total Funding Years	23	Percent Appropriated	30.51%

## Operating and Support Cost

### Assumptions and Ground Rules

The JASSM Operating and Support (O&S) estimate includes requirements for 4,900 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 bumper-to-bumper warranty is assumed with a 20-year shelf life and the subsequent demilitarization of the weapon. The JASSM program office will function as the Air Force Logistics Center (ALC).

The latest O&S cost estimate was December 2005.

There is no antecedent system for JASSM.

#### Costs BY1995 \$K

Cost Element	JASSM Avg Annual Cost Per Missile	N/A
Mission Pay & Allowance	0.0	--
Unit Level Consumption	0.0	--
Intermediate Maintenance	0.0	--
Depot Maintenance	0.0	--
Contractor Support	2.3	--
Sustaining Support	0.0	--
Indirect	0.0	--
Other	--	--
Total Unitized Cost (Base Year 1995 \$)	2.3	--

Total O&S Costs \$M	JASSM	N/A
Base Year	225.2	--
Then Year	401.5	--



# Defense Acquisition Management Information Retrieval (DAMIR)



## Selected Acquisition Report (SAR)

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



### **JASSM**

As of December 31, 2006

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

USN

## Responsible Office

### Responsible Office

Col John Griggs

308th ARSG

JASSM System Program Office

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**Phone** 850-883-5340

**Fax** --

**DSN Phone** 875-5340

**DSN Fax** --

**Date Assigned** May 4, 2006

## References

### SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated November 9, 1998

### Approved APB

AFAE Approved Acquisition Program Baseline (APB) dated July 14, 2004

## Mission and Description

The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation air-to-surface missile enabling Air Force and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack fixed and relocatable/maritime targets ranging from non-hardened above surface to moderately hardened buried point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM Extended Range (JASSM-ER) variant's increased standoff range will allow the precision attack of high value targets deeper into enemy territory, while minimizing the threat to the launch aircraft. The JASSM does not replace any existing weapon system for the Air Force.

## Executive Summary

The JASSM Program Office accomplished significant milestones this reporting period. Headquarters Air Combat Command (ACC) declared JASSM Initial Operational Capability (IOC) for the F-16 and the B-2; the JASSM Extended Range (ER) (Block 2) successfully conducted a Development Test (DT-1) and two Integrated Tests (ITs 1 & 2) at White Sands Missile Range (WSMR); and Production Upgrade Vehicles (PUVs 1 & 2) modified with special software/hardware met test objectives and demonstrated continued improvements to JASSMs reliability, maintainability, and survivability.

In May 2006, the JASSM-ER DT-1 flight test was conducted at WSMR. This was the first of a series of DT/IT/OT (Operational Test) evaluation flights of the Block 2 JASSM. The missile impacted directly on the target following a 390 nautical miles (NM) flight through 17 way points. The second JASSM-ER flight test (IT-1) was conducted in August 2006, hitting the target. In December 2006, IT-2 successfully completed a max range mission which was the missile's longest mission profile to date, flying just over the Operational Requirements Document (ORD) required range.

In August 2006, ACC conducted its Weapons System Evaluation Program releasing 2 AGM-158A missiles from each launch platform (B-1, B-2, B-52, and F-16). Four flew nominally, impacting in the target area; two failed to achieve stable and controlled flight (no wing deployment); one failed to achieve powered flight (no engine start); and one flight was terminated due to test instrumentation equipment failure (flew normally until termination). Failure Review Boards (FRBs) were initiated to analyze the missile failures. One failure was attributed to the Wing Retention Devices (WRD), and resulted in an early cut-in of an updated WRD design that increases performance margin and missile reliability. The second failure analysis revealed a potential for cable mis-wire in Lot 1 missiles. As a result, all Lot 1 missiles are being inspected for the potential failure mode. Expansion of the cable mis-wire investigation identified a potential safety issue that is discussed below. FRB activity is still ongoing in the third investigation (engine no-start).

In August 2006, a functional ground test (FGT) of a JASSM baseline missile resulted in an engine "no-start" condition. The failure of the engine to fully start has been attributed to a "non-robust" engine start sequence, a situation associated with static, sea-level conditions. The FGT facility is being modified to include hi-volume airflow to ensure nominal engine starts in the future.

In late October 2006, the JASSM fleet was grounded as a result of a potential safety-related problem (potential mis-wire that could result in an off-nominal wing deployment). The program office developed a multi-level approach to resolve the issue and return JASSM to operational status. Inspecting the fielded assets and returning operational capability was top priority. Field inspections were completed worldwide in less than 90 days returning 85% of the Lot 2-4 inventory to full operational status. The remaining missiles that could not be verified in the field are being returned to the production facility for further inspection. To minimize the impacts to fielded combat capability, the Lot 1 missiles (all of which had to be returned to the production facility) have been replaced in the field with new Lot 4 missiles. In order to improve their reliability, the Lot 1 missiles will also have additional inspections to screen for (and repair if necessary) several known potential failure modes while at the production facility.

In December 2006, PUV #3 was released from a B-1 at WSMR. After safe separation and transition to controlled flight, the missile flew nearly 200 NM. Approximately halfway through the flight, the missile began to experience extended Global Positioning System (GPS) drop outs that eventually led to complete loss of GPS signals. Missile impact was outside of target area. A FRB was established to determine root cause and assess impacts to the inventory.

Additionally, PUV #3 demonstrated the aero performance degradation ("slow climb") that was experienced in earlier JASSM Baseline flights. This off-nominal characteristic has been corrected for baseline performance through mission planning updates and missile software updates. However, the potential impact to the JASSM-ER range requirement, a key performance parameter (KPP), highlighted the requirement for additional wind tunnel testing to assess known manufacturing tolerances and validate those tolerances prior to final development of new production tooling.

JASSM received a \$20M reduction in FY07 production funds citing ER testing concurrency. As a result, the ER program has been restructured to procure Operational Test Assets with development funding and supports a path forward to reduce testing concurrency.

The JASSM Electronic Safe and Arm Fuze (ESAF) is a development effort designed to improve the reliability of the current JASSM fuze. In January 2006, with concurrence from Director, Operational Test and Evaluation (DOT&E), sled testing of the JASSM ESAF resumed with sled test #3 and sled test #4 in February 2006. However, the ESAF sled test program was halted after sled test #5 failure in June 2006. The test program was restructured to eliminate test concurrency and reduce program risk, resulting in a one year program extension. Two risk reduction sled tests were conducted in November 2006 designed to assess fuze robustness improvements. Risk reduction sled test #1 was successfully accomplished, validating the new robustness design improvements. The second risk reduction sled test (imperfect intelligence scenario) was not successful because the warhead did not detonate. Upon further inspection, it was determined that the impact conditions exceeded the warhead survivability limitations. A revision to the test plan has been coordinated with DOT&E updating the impact conditions for all future testing. The ESAF was flown on the December 2006 PUV-3 flight test, but due to the fact that the missile impacted outside the target area, the fuze performed as designed and did not command the warhead to arm.

The Air Force started the JASSM Weapons Data Link (WDL) program to provide a two-way communication capability between a launched missile and a Beyond-Line-of-Sight (BLOS) command and control (C2) element. In March 2006, the Air Force awarded the JASSM WDL System Development and Demonstration (SDD) effort. In October 2006, the requirement for BLOS was rephased, re-prioritizing to a Line-of-Sight (LOS) data link. A WDL restructure plan was approved in February 2007.

The first international sale of JASSMs commenced in July 2006 with the Commonwealth of Australia's (CoA) signature on a Letter of Offer and Acceptance to equip the Australian Defense Force's F/A-18 Hornet fleet by December 2009. In July 2006, a Foreign Military Sales (FMS) contract with Lockheed Martin Missiles and Fire Control, valued at \$87.5M, was awarded for test and evaluation assets and baseline JASSMs. The JASSM Direct Commercial Sales (DCS) contract between the CoA and Lockheed Martin for F/A-18 integration support was awarded in September 2006 with a planned contract effort for Maritime Interdiction capability to be executed not later than July 2007.

There are no significant software related issues with this program at this time.

### Threshold Breaches

APB Breaches	
--------------	--

<b>Schedule</b>	<input checked="" 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 checked="" type="checkbox"/>
APUC	<input checked="" type="checkbox"/>

#### Explanation of Breach

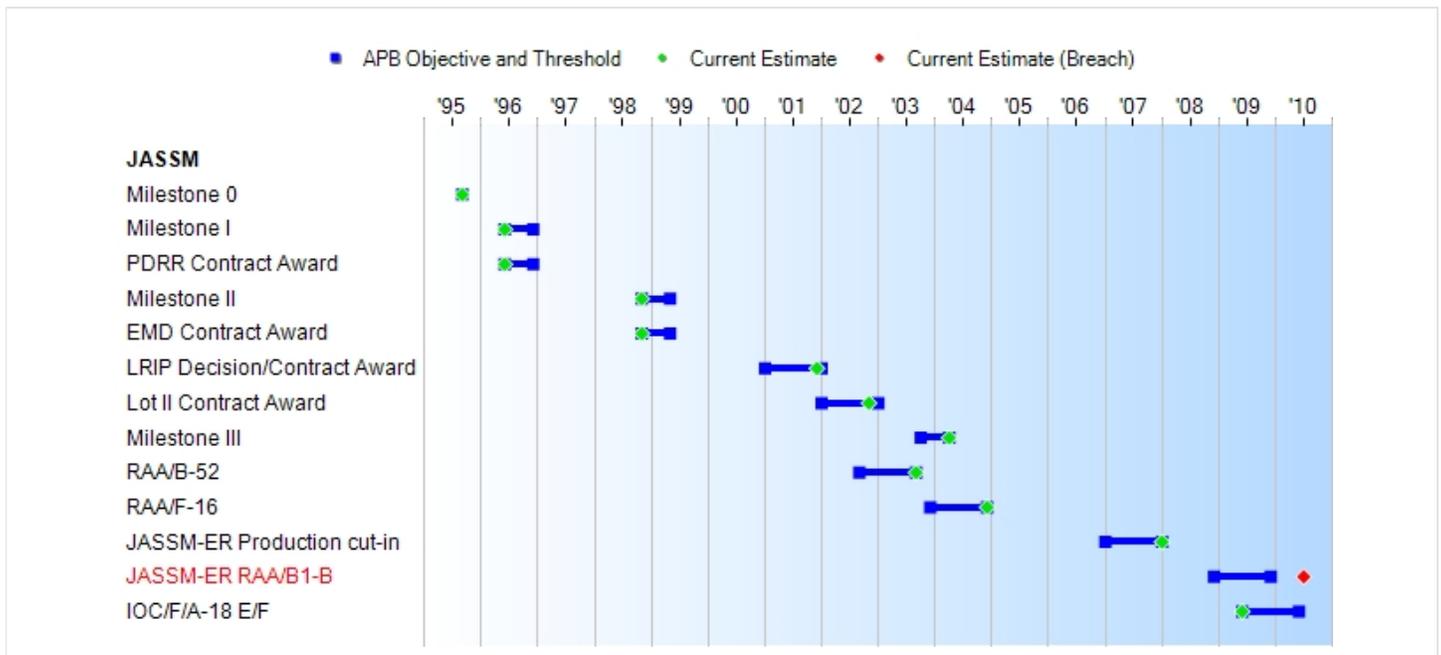
There is a schedule breach to the APB for JASSM-ER RAA/B1-B of one year.

In accordance with the FY 2006 National Defense Authorization Act (P.L. 109-163), the Department is required to report Nunn-McCurdy unit cost breaches to the "original" Acquisition Program Baseline (APB), i.e., the APB established at Milestone B (previously Milestone II). Accordingly, this program is reporting an increase in the Average Procurement Unit Cost (APUC) of at least 60% to the "original" APB. Additional unit cost breach information is provided in the Unit Cost Information section of this Selected Acquisition Report. The program is also reporting increases to the current APB PAUC and APUC of at least 15%.

Nunn-McCurdy Breaches	
-----------------------	--

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

### Schedule



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
Milestone III	OCT 2003	OCT 2003	APR 2004	APR 2004
RAA/B-52	SEP 2002	SEP 2002	SEP 2003	SEP 2003
RAA/F-16	DEC 2003	DEC 2003	DEC 2004	DEC 2004
JASSM-ER Production cut-in	JAN 2007	JAN 2007	JAN 2008	JAN 2008
JASSM-ER RAA/B1-B	DEC 2008	DEC 2008	DEC 2009	<b>JUL 2010<sup>1</sup></b>
IOC/F/A-18 E/F	JUN 2009	JUN 2009	JUN 2010	JUN 2009

<sup>1</sup>APB Breach

#### Acronyms

- DOT&E - Director, Operational Test and Evaluation
- DT - Development Test
- EMD - Engineering and Manufacturing Development
- ER - Extended Range
- FRB - Failure Review Board
- IOC - Initial Operational Capability
- IT - Integrated Test

JASSM - Joint Air-to-Surface Standoff Missile  
LRIP - Low Rate Initial Production  
NM - Nautical Mile  
ORD - Operational Requirements Document  
OT - Operational Test  
PDRR - Program Definition and Risk Reduction  
RAA - Required Assets Available

### **Change Explanations**

None

### **Memo**

The JASSM Milestone III decision was held in April 2004 by the Air Force Program Executive Officer for Weapons; however, it was later determined that the Milestone Decision Authority resided with Secretary of Air Force for Acquisition as the Service Acquisition Executive. Accordingly, the Milestone III decision was reaccomplished in July 2004.

Approved APB thresholds for Low-Rate Initial Production (LRIP) Decision/Contract Award, RAA/B-52, RAA/F-16, JASSM-ER Production cut-in, JASSM-ER RAA/B1-B, and IOC/F/A-18 E/Fare one year from objective date, not the usual six months.

RAA for the B-52 is 42 missiles  
RAA for the F-16 is 25 missiles  
RAA for the JASSM-ER B1-B is 30 missiles

## Performance

Note: Classified and unclassified performance parameters are displayed in the Classified DAMIR.

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

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

APPN 1319 PE 0604312N (Navy) (Shared) SUNK  
Joint Air-to-Surface Standoff Missile

**Procurement**

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

## Cost and Funding

### Cost Summary

#### Total Acquisition Cost and Quantity

Appropriation	BY1995 \$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	1096.6	1096.6	1261.1	1199.8	1199.8	1248.0
Procurement	2901.4	2901.4	3336.6	3756.2	3756.2	4548.3
Flyaway	2791.6	--	--	3617.5	--	4415.6
Recurring	2791.6	--	--	3617.5	--	4415.6
Non Recurring	0.0	--	--	0.0	--	0.0
Support	109.8	--	--	138.7	--	132.7
Other Support	109.8	--	--	138.7	--	132.7
Initial Spares	0.0	--	--	0.0	--	0.0
MILCON	18.4	18.4	21.2	25.1	25.1	--
Acq O&M	--	--	--	--	--	--
<b>Total</b>	<b>4016.4</b>	<b>4016.4</b>	<b>N/A</b>	<b>4981.1</b>	<b>4981.1</b>	<b>5796.3</b>

Procurement funding does not include Seek Eagle funding of \$5.7M (\$2.8M in FY05, and \$2.9M in FY07).

SAR Production Estimate includes Navy funding whereas Current Estimate has the Navy program zeroed out in FY06-11.

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	94	94	106
Procurement	5353	5353	4900
<b>Total</b>	<b>5447</b>	<b>5447</b>	<b>5006</b>

Total Program Quantity includes 106 fully configured Research, Development, Test and Evaluation (RDT&E) units for Engineering and Manufacturing Development (EMD) (100 total for the Air Force of which nineteen units are planned for JASSM Extended Range (ER) development and six total for Navy)

The Acquisition Decision Memorandum signed on December 21, 2001, approved the Low-Rate Initial Production (LRIP) decision to procure 176 missiles. Congressional language for the FY04 budget dictated that the JASSM program remain in LRIP for Lot 3.

## Funding Summary

### Appropriation and Quantity Summary

#### FY2008 President's Budget / December 2006 SAR (TY\$ M)

Appropriation	Prior	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	To Complete	Total
RDT&E	1061.1	40.7	12.2	35.7	51.7	36.3	5.2	5.1	0.0	1248.0
Procurement	430.9	163.5	201.1	242.2	243.3	244.1	252.3	256.8	2514.1	4548.3
MILCON	0.0	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	0.0
PB2008 Total	1492.0	204.2	213.3	277.9	295.0	280.4	257.5	261.9	2514.1	5796.3
PB2007 Total	1499.2	225.1	243.7	343.0	292.4	204.0	291.7	293.2	1521.7	4914.0
Delta	-7.2	-20.9	-30.4	-65.1	2.6	76.4	-34.2	-31.3	992.4	882.3

Quantity	Prior	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	106
Production	779	163	210	250	255	260	260	260	2463	4900
PB2008 Total	779	163	210	250	255	260	260	260	2463	5006
PB2007 Total	779	234	272	415	361	272	359	359	1849	4994
Delta	0	-71	-62	-165	-106	-12	-99	-99	614	12

## Annual Funding By Appropriation

### Annual Funding TY\$

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1998	--	--	--	--	--	--	5.1
1999	--	--	--	--	--	--	1.7
2000	--	--	--	--	--	--	3.2
2001	--	--	--	--	--	--	1.8
2002	--	--	--	--	--	--	5.4
2003	--	--	--	--	--	--	14.5
2004	--	--	--	--	--	--	18.4
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>50.1</b>

## Annual Funding TY\$

## 3600 | RDT&amp;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	--	--	--	--	--	--	48.6
2004	--	--	--	--	--	--	25.5
2005	--	--	--	--	--	--	43.3
2006	--	--	--	--	--	--	58.8
2007	--	--	--	--	--	--	40.7
2008	--	--	--	--	--	--	12.2
2009	--	--	--	--	--	--	35.7
2010	--	--	--	--	--	--	51.7
2011	--	--	--	--	--	--	36.3
2012	--	--	--	--	--	--	5.2
2013	--	--	--	--	--	--	5.1
<b>Subtotal</b>	<b>100</b>	--	--	--	--	--	<b>1192.7</b>

## Annual Funding BY\$

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

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1995 \$M	Non End Item Recurring Flyaway BY 1995 \$M	Non Recurring Flyaway BY 1995 \$M	Total Flyaway BY 1995 \$M	Total Support BY 1995 \$M	Total Program BY 1995 \$M
1996	--	--	--	--	--	--	26.7
1997	--	--	--	--	--	--	153.5
1998	--	--	--	--	--	--	155.4
1999	--	--	--	--	--	--	114.3
2000	--	--	--	--	--	--	142.8
2001	--	--	--	--	--	--	108.1
2002	--	--	--	--	--	--	74.7
2003	--	--	--	--	--	--	43.3
2004	--	--	--	--	--	--	22.2
2005	--	--	--	--	--	--	36.7
2006	--	--	--	--	--	--	48.4
2007	--	--	--	--	--	--	32.7
2008	--	--	--	--	--	--	9.6
2009	--	--	--	--	--	--	27.4
2010	--	--	--	--	--	--	38.8
2011	--	--	--	--	--	--	26.7
2012	--	--	--	--	--	--	3.7
2013	--	--	--	--	--	--	3.6
<b>Subtotal</b>	<b>100</b>	--	--	--	--	--	<b>1068.6</b>

## Annual Funding TY\$

## 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
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	131.9	--	--	131.9	4.5	136.4
2006	75	93.8	--	--	93.8	4.9	98.7
2007	163	158.4	--	--	158.4	5.1	163.5
2008	210	195.4	--	--	195.4	5.7	201.1
2009	250	236.1	--	--	236.1	6.1	242.2
2010	255	236.5	--	--	236.5	6.8	243.3
2011	260	238.1	--	--	238.1	6.0	244.1
2012	260	246.0	--	--	246.0	6.3	252.3
2013	260	250.5	--	--	250.5	6.3	256.8
2014	315	295.1	--	--	295.1	7.3	302.4
2015	345	326.5	--	--	326.5	7.7	334.2
2016	345	328.1	--	--	328.1	8.0	336.1
2017	335	324.3	--	--	324.3	8.0	332.3
2018	428	429.8	--	--	429.8	9.0	438.8
2019	350	376.7	--	--	376.7	8.7	385.4
2020	345	376.1	--	--	376.1	8.8	384.9
<b>Subtotal</b>	<b>4900</b>	<b>4415.6</b>	--	--	<b>4415.6</b>	<b>132.7</b>	<b>4548.3</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
2001	--	--	--	--	--	0.2	0.2
2002	76	33.0	--	--	33.0	5.0	38.0
2003	100	34.9	--	--	34.9	10.9	45.8
2004	240	82.2	--	--	82.2	4.6	86.8
2005	288	110.5	--	--	110.5	3.7	114.2
2006	75	76.3	--	--	76.3	3.9	80.2
2007	163	125.9	--	--	125.9	4.1	130.0
2008	210	151.8	--	--	151.8	4.5	156.3
2009	250	179.4	--	--	179.4	4.6	184.0
2010	255	176.0	--	--	176.0	5.0	181.0
2011	260	173.7	--	--	173.7	4.3	178.0
2012	260	175.9	--	--	175.9	4.5	180.4
2013	260	175.5	--	--	175.5	4.5	180.0
2014	315	202.8	--	--	202.8	5.0	207.8
2015	345	220.0	--	--	220.0	5.2	225.2
2016	345	216.8	--	--	216.8	5.3	222.1
2017	335	210.0	--	--	210.0	5.2	215.2
2018	428	272.9	--	--	272.9	5.7	278.6
2019	350	234.4	--	--	234.4	5.4	239.8
2020	345	229.5	--	--	229.5	5.3	234.8
<b>Subtotal</b>	<b>4900</b>	<b>3081.5</b>	--	--	<b>3081.5</b>	<b>96.9</b>	<b>3178.4</b>

## **Low Rate Initial Production**

None

## **Foreign Military Sales**

The USAF developed a "TOPLINE" Export Policy for JASSM in July 2002. Lockheed Martin has a marketing and Technical Assistance Agreement licenses with Australia, as well as marketing license (with provisos) with the European Participating Air Force countries and Spain. Each case will be separately approved. The first international sale of JASSMs commenced in July 2006 with the Commonwealth of Australia's (CoA) signature on a Letter of Offer and Acceptance to equip the Australian Defense Force's F/A-18 Hornet fleet by December 2009. In July 2006, a Foreign Military Sales (FMS) contract with Lockheed Martin Missiles and Fire Control, valued at \$87.5M, was awarded for test and evaluation assets and baseline JASSMs. The JASSM Direct Commercial Sales (DCS) contract between the CoA and Lockheed Martin for F/A-18 integration support was awarded in September 2006 with a planned contract effort for Maritime Interdiction capability to be executed not later than July 2007.

## **Nuclear Cost**

None.

## Unit Cost

### Unit Cost Report

Unit Cost	BY1995 \$M		
	Current UCR Baseline (JUL 2004 APB)	Current Estimate (DEC 2006 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	4016.4	4297.1	
Quantity	5447	5006	
Unit Cost	0.737	0.858	<b>+16.42</b> <sup>1</sup>
Average Procurement Unit Cost (APUC)			
Cost	2901.4	3178.4	
Quantity	5353	4900	
Unit Cost	0.542	0.649	<b>+19.74</b> <sup>1</sup>

Unit Cost	BY1995 \$M		
	Original UCR Baseline (NOV 1998 APB)	Current Estimate (DEC 2006 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	1749.5	4297.1	
Quantity	2469	5006	
Unit Cost	0.709	0.858	+21.02
Average Procurement Unit Cost (APUC)			
Cost	960.0	3178.4	
Quantity	2400	4900	
Unit Cost	0.400	0.649	<b>+62.25</b> <sup>1</sup>

Unit Cost	TY \$M		
	Current UCR Baseline (JUL 2004 APB)	Current Estimate (DEC 2006 SAR)	TY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	4981.1	5796.3	
Unit Cost	0.914	1.158	+26.70
Average Procurement Unit Cost (APUC)			
Cost	3756.2	4548.3	
Unit Cost	0.702	0.928	+32.19

Unit Cost	TY \$M		
	Original UCR Baseline (NOV 1998 APB)	Current Estimate (DEC 2006 SAR)	TY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	2073.3	5796.3	
Unit Cost	0.840	1.158	+37.86
Average Procurement Unit Cost (APUC)			
Cost	1209.6	4548.3	
Unit Cost	0.504	0.928	+84.13

### <sup>1</sup> Nunn-McCurdy Breach

#### Unit Cost Breach Data

Changes from Previous SAR	\$M/Qty.	Percent
PAUC (BY \$M)	0.101	+13.33
APUC (BY \$M)	0.086	+15.17
PAUC Quantity	12	+0.24
PAUC (TY \$M)	0.174	+17.67
APUC (TY \$M)	0.154	+19.85

Initial SAR Information DEC 2001	BY1995 \$M	TY \$M
Program Aquisition Cost	2574.3	3119.6

#### Unit Cost PAUC Changes

The "Original Baseline" unit cost measure for Program Acquisition Unit Cost (PAUC) established during Engineering Manufacturing Development (EMD) (1998) included 2,400 baseline missiles. Operational Requirements Document (ORD) changes during Low-Rate Initial Production (LRIP) and Milestone (MS) III (Full Rate Production (FRP)) added the more expensive Extended Range (ER) variant and overall quantity increased to 4,900 missiles (2,500 missile increase). In addition, program costs have increased due to deferment of planned quantity buys resulting from budget reductions (2004 thru 2007) and implementation of the reliability enhancement program.

#### Unit Cost APUC Changes

The "Original Baseline" unit cost measure for Average Procurement Unit Cost (APUC) established during EMD (1998) included 2,400 baseline missiles. ORD changes during LRIP and MS III (FRP) added the more expensive ER variant and overall quantity increased to 4,900 missiles (2,500 missile increase). In addition, program costs have increased due to deferment of planned quantity buys resulting from budget reductions (2004 thru 2007) and implementation of the reliability enhancement program.

#### Impact of Performance or Schedule Changes

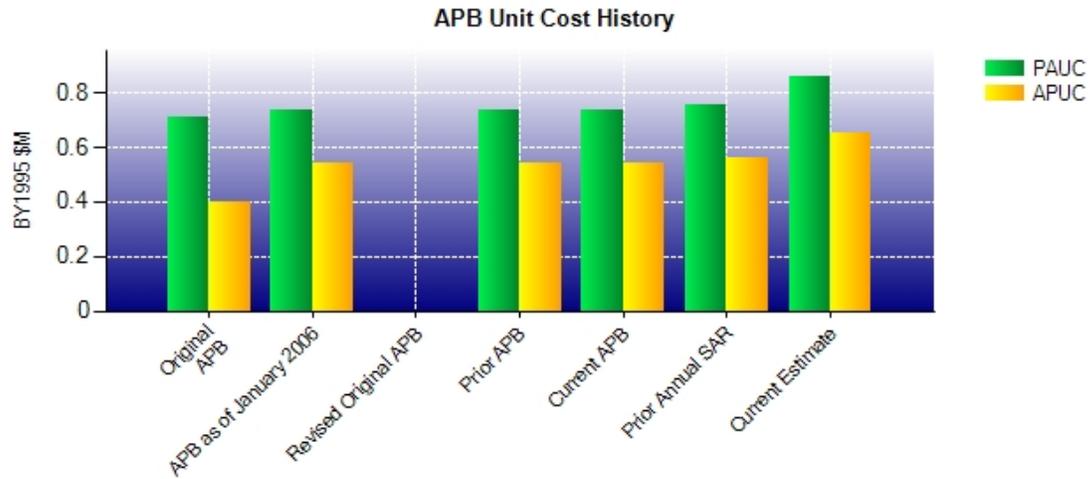
ORD changes during LRIP and Milestone III (Full Rate Production) added the more expensive ER variant and overall quantity increased to 4,900 missiles (2,500 missile increase). In addition, program costs have increased due to deferment of planned quantity buys resulting from budget reductions (2004 thru 2007) and implementation of the reliability enhancement program. The schedule for ER production cut-in has been adjusted to reduce testing concurrency. The adjusted schedule provides for a slower ramp up of ER missiles and extension of the production buy profile 2 years (FY18 to FY20).

**Program Management or Control**

The JASSM Program Office has initiated a Program Deviation Report to address the Nunn-McCurdy breach. The program office is also coordinating with SAF/AQP and OUSD (AT&L) in preparation of the certification documentation.

**Cost Control Actions****Nunn-McCurdy Comments**

### Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
<b>Original APB</b>	NOV 1998	0.709	0.400	0.840	0.504
<b>APB as of January 2006</b>	JUL 2004	0.737	0.542	0.914	0.702
<b>Revised Original APB</b>	N/A	N/A	N/A	N/A	N/A
<b>Prior APB</b>	MAR 2004	0.737	0.542	0.914	0.702
<b>Current APB</b>	JUL 2004	0.737	0.542	0.914	0.702
<b>Prior Annual SAR</b>	DEC 2005	0.757	0.563	0.984	0.774
<b>Current Estimate</b>	DEC 2006	0.858	0.649	1.158	0.928

The June 14, 1996 SAR Planning estimate consisted of a quantity of 44 missiles for RDT&E with BY funding of \$732.4M (PAUC - \$16.645M). The November 9, 1998 Development APB reflected a quantity of 2469 (69 RDT&E & 2400 production missiles) with total BY funding of \$1,749.5 ( \$771.1M RDT&E, \$960.0M production, & \$18.4M MILCON)(PAUC -\$.709M & APUC - \$.400M). The November 1998 APB provides a more accurate assessment of PAUC and APUC.

### 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	
0.840	-0.021	-0.142	0.049	0.089	0.083	0.000	0.016	0.074	0.914

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

PAUC Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.914	0.040	0.016	0.040	0.029	0.122	0.000	-0.003	0.243	1.158

**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	
0.504	-0.016	0.039	0.030	0.075	0.053	0.000	0.017	0.198	0.702

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

APUC Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.702	0.040	-0.006	0.046	0.000	0.150	0.000	-0.003	0.227	0.928

**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	4981.1	5796.3
Total Quantity	44	2469	5447	5006
Prog. Acq. Unit Cost (PAUC)	18.439	0.840	0.914	1.158

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

**Cost Variance**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Prod Est)	1199.8	3756.2	25.1	4981.1
Previous Changes				
Economic	+7.4	+165.3	0.0	+172.7
Quantity	0.0	-345.4	0.0	-345.4
Schedule	0.0	+119.8	0.0	+119.8
Engineering	+10.0	0.0	0.0	+10.0
Estimating	-98.1	+131.9	-25.1	+8.7
Other	0.0	0.0	0.0	0.0
Support	0.0	-32.9	0.0	-32.9
Subtotal	-80.7	+38.7	-25.1	-67.1
Current Changes				
Economic	+0.5	+28.8	--	+29.3
Quantity	+22.2	--	--	+22.2
Schedule	-25.8	+105.5	--	+79.7
Engineering	+133.9	--	--	+133.9
Estimating	-1.9	+602.7	--	+600.8
Other	--	--	--	--
Support	--	+16.4	--	+16.4
Subtotal	+128.9	+753.4	--	+882.3
Total Changes	+48.2	+792.1	-25.1	+815.2
CE - Cost Variance	1248.0	4548.3	--	5796.3
CE - Cost & Funding	1248.0	4548.3	--	5796.3

<b>Summary Base Year 1995 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Prod Est)	1096.6	2901.4	18.4	4016.4
Previous Changes				
Economic	0.0	0.0	0.0	0.0
Quantity	0.0	-248.7	0.0	-248.7
Schedule	0.0	0.0	0.0	0.0
Engineering	+8.1	0.0	0.0	+8.1
Estimating	-81.7	+129.9	-18.4	+29.8
Other	0.0	0.0	0.0	0.0
Support	0.0	-22.9	0.0	-22.9
Subtotal	-73.6	-141.7	-18.4	-233.7
Current Changes				
Economic	--	--	--	--
Quantity	+17.8	--	--	+17.8
Schedule	-20.8	0.0	--	-20.8
Engineering	+100.2	--	--	+100.2
Estimating	-1.5	+408.7	--	+407.2
Other	--	--	--	--
Support	--	+10.0	--	+10.0
Subtotal	+95.7	+418.7	--	+514.4
Total Changes	+22.1	+277.0	-18.4	+280.7
CE - Cost Variance	1118.7	3178.4	--	4297.1
CE - Cost & Funding	1118.7	3178.4	--	4297.1

Previous Estimate: December 2005

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	+0.5
Increase in JASSM-ER test Assets (Quantity) (QR)	+17.8	+22.2
Program restructure for JASSM-ER, Weapons Data Link (WDL), and Maritime Interdiction (MI) (Schedule)	-20.8	-25.8
Increase for JASSM-ER, WDL, and MI (Engineering)	+100.2	+133.9
Adjustment for Current and Prior Inflation. (Estimating)	-1.5	-1.9
RDT&E Subtotal	+95.7	+128.9

(QR) Quantity Related

Procurement	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	+28.8
Stretchout of annual procurement buy profile. (Schedule)	0.0	+105.5
Adjustment for Current and Prior Inflation. (Estimating)	-2.9	-3.6
Implementation of robust reliability program/funding adjustments impacting outyear profile. (Estimating)	+411.6	+606.3
Change in Other Weapon System Costs (Support)	+10.0	+16.4
Procurement Subtotal	+418.7	+753.4

## Contracts

### Appropriation: RDT&E

Contract Name	<b>JASSM LRIP (Lot 2)</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08635-03-C-0010, FFP
Award Date	November 18, 2002
Definitization Date	November 18, 2002

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
36.1	N/A	100	44.7	N/A	100	44.7	44.7

### Cost And Schedule Variance Explanations

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

### Contract Comments

The current contract price increase from \$36.1M to \$44.7M due to the following additions to the contract: Operational Safety, Suitability and Effectiveness (OSS&E) Program, procurement of Dummy Air Training Missiles (DATM), Key Data Processor (KDP) Reprogramming Cable and Software effort, mission planning sustainment support, and procurement of JASSM Test Instrumentation Kits parts.

<b>Appropriation: RDT&amp;E</b>
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Contract Name	<b>F-/18E-F &amp; JMPS Integrat</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08635-03-C-0059, CPIF
Award Date	April 17, 2003
Definitization Date	April 17, 2003

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
52.9	N/A	6	27.6	N/A	6	27.6	27.6

	Cost Variance	Schedule Variance
Previous Cumulative Variances	+1.0	-0.6
Cumulative Variances To Date	+3.3	0.0
Net Change	+2.3	+0.6
Percent Variance	+16.50	0.00
Percent Complete	+84.03	

<b>Cost And Schedule Variance Explanations</b>
--

The net favorable cost variance is due to a revision to the forward pricing overhead rates & factors issued by Lockheed Martin effective October 2006.

The net favorable schedule variance is due to completion of acceptance testing of Unique Planning Component (UPC) software development.

<b>Contract Comments</b>
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The Navy ended its participation in the program in FY05 and the contract has been restructured.

<b>Appropriation: RDT&amp;E</b>
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Contract Name	<b>JASSM-ER Phase II</b>
Contractor	Lockheed Martin
Contractor Location	Orlando , FL
Contract Number, Type	FA8682-04-C-0004, CPAF
Award Date	February 20, 2004
Definitization Date	February 20, 2004

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
79.0	N/A	7	84.3	N/A	7	84.3	84.3

	Cost Variance	Schedule Variance
Previous Cumulative Variances	+1.4	-2.5
Cumulative Variances To Date	+0.5	-0.4
Net Change	-0.9	+2.1
Percent Variance	+0.74	-0.59
Percent Complete	+93.00	

<b>Cost And Schedule Variance Explanations</b>
--

The net unfavorable cost variance is due to the contract extension to support realignment of the Extended Range Operational Testing schedule.

The net favorable schedule variance is due to restructuring contract which stretched the test program seven months.

<b>Contract Comments</b>
--------------------------

None

**Appropriation: Procurement**

Contract Name **JASSM PROD (Lot 3/4/5)**  
 Contractor Lockheed Martin  
 Contractor Location Orlando , FL 32819  
 Contract Number, Type FA8682-04-C-0060, FFP  
 Award Date November 26, 2003  
 Definitization Date November 26, 2003

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
76.4	N/A	200	299.4	N/A	603	299.4	299.4

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

The increase in current contract price to \$299.4M due to the exercise of Lot 5 production option purchasing 75 missiles.

**Deliveries and Expenditures**

<b>Deliveries To Date</b>	<b>Plan</b>	<b>Actual</b>	<b>Total Quantity</b>	<b>Percent Delivered</b>
Development	106	106	106	100.00%
Production	510	510	4900	10.41%
<b>Total Program Quantities Delivered</b>	<b>616</b>	<b>616</b>	<b>5006</b>	<b>12.31%</b>

<b>Expenditures and Appropriations (TY \$M)</b>			
Total Acquisition Cost	5796.3	Years Appropriated	12
Expenditures To Date	1302.5	Percent Years Appropriated	48.00%
Percent Expended	22.47%	Appropriated to Date	1696.2
Total Funding Years	25	Percent Appropriated	29.26%

## Operating and Support Cost

### Assumptions and Ground Rules

The JASSM Operating and Support (O&S) estimate includes requirements for 4,900 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 bumper-to-bumper warranty is assumed with a 20-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 January 2007.

There is no antecedent system for JASSM.

#### Costs BY1995 \$K

Cost Element	JASSM Avg Annual Cost Per Missile	N/A
Mission Pay & Allowance	0.0	--
Unit Level Consumption	0.0	--
Intermediate Maintenance	0.0	--
Depot Maintenance	0.0	--
Contractor Support	2.1	--
Sustaining Support	0.0	--
Indirect	0.0	--
Other	--	--
Total Unitized Cost (Base Year 1995 \$)	2.1	--

Total O&S Costs \$M	JASSM	N/A
Base Year	210.1	--
Then Year	408.5	--



# Defense Acquisition Management Information Retrieval (DAMIR)



## Selected Acquisition Report (SAR)

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



### **JASSM**

As of December 31, 2007

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## Program Information

### Designation And Nomenclature (Popular Name)

Joint Air-to-Surface Standoff Missile (JASSM)

### DoD Component

Air Force

### Joint Participants

USN

## Responsible Office

### Responsible Office

Col John Griggs	<b>Phone</b>	850-883-5340
308th Armament Systems Group	<b>Fax</b>	850-882-5394
JASSM System Program Office	<b>DSN Phone</b>	875-5340
205 West D Ave, Suite 632	<b>DSN Fax</b>	872-5394
Eglin AFB, FL 32542-6807		
<a href="mailto:john.griggs@eglin.af.mil">john.griggs@eglin.af.mil</a>	<b>Date Assigned</b>	May 4, 2006

## References

### SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated November 9, 1998

### Approved APB

AFAE Approved Acquisition Program Baseline (APB) dated July 14, 2004

## Mission and Description

The Joint Air-to-Surface Standoff Missile (JASSM) is a next generation air-to-surface missile enabling Air Force (USAF) and Navy bombers and fighters to destroy the enemy's war-sustaining capabilities from outside the ranges of enemy air defenses. The autonomous precision strike weapon will attack fixed and relocatable/maritime targets ranging from non-hardened above surface to moderately hardened buried point targets. The system will offer reliable performance in world-wide operational environments. The system will also offer low operational support costs. The JASSM Extended Range (JASSM-ER) variant's increased standoff range will allow the precision attack of high value targets deeper into enemy territory, while minimizing the threat to the launch aircraft. The JASSM does not replace any existing weapon system for the USAF.

## Executive Summary

In early 2007, the Joint Air-to-Surface Standoff Missile (JASSM) program reported a critical unit cost breach to the original Acquisition Program Baseline. The breach occurred against the "Original" Average Procurement Unit Cost measure established in 1998. The cost breach was driven by three primary factors. First, the addition of a more expensive JASSM Extended Range (JASSM-ER) variant increased the quantity buy from 2,400 to 4,900 missiles. Second, poor missile reliability resulted in budget reductions from 2004 to 2008 which drove up missile prices due to reduced quantities and caused a deferral of planned buys to the out years at higher prices. Third, the implementation of a Reliability Enhancement Program (flight/ground testing, increased component level testing, production verification reviews at suppliers) to address reliability concerns increased overall missile costs.

In accordance with section 2433 of Title 10 United States Code (Unit cost reports), a Nunn-McCurdy Integrated Product Team structure was established during early Spring 2007 to certify the program in four areas: 1) program is essential to national security; 2) no reasonable alternatives exist; 3) program costs are reasonable; and 4) management structure is adequate to control costs.

In April and May 2007, a series of Weapon System Evaluation Program (WSEP) flight test failures occurred. A total of four JASSMs were launched from B-2 and B-52H aircraft. Of these missions, three encountered Global Positioning System (GPS) problems that resulted in mission failures. The fourth experienced a fuze failure. Consequently, the Office of the Under Secretary of Defense for Acquisition, Technology and Logistics (OUSD/AT&L) deferred the pending Nunn-McCurdy certification of the program, directing the completion of a missile reliability characterization program and revision of cost estimates to reflect program changes. The June 4, 2007 deferral decision included a prohibition to obligating additional funding to existing or new JASSM or JASSM-ER major contracts and directed the Air Force to restructure JASSM-ER development. The decision memorandum also directed a stop to all funding associated with the Weapon Data Link/Maritime Interdiction (MI) increments of JASSM. Effort to resume development of a MI capability is pending the recertification decision.

In July 2007, OUSD/AT&L approved a Plan of Actions and Milestones (POA&M) with an expanded test program to characterize/demonstrate JASSM reliability. The POA&M addresses actions necessary to support a Defense Acquisition Board (DAB) certification decision in Spring 2008. In addition, the government and contractor agreed to share costs associated with completing Phase I of the POA&M (estimated \$68M).

On October 31, 2007, the JASSM Program conducted a Production Upgrade Vehicle (PUV) flight test at White Sands Missile Range. The primary purpose of this test was the first flight of the Trimble-based GPS receiver that will be used in Lot 6 production. The missile navigated on Internal Measurement Unit (IMU) only for the first half of the flight, as the Trimble GPS receiver did not track satellites for the first portion of the flight. At roughly the 15 minute point in the flight, the Trimble receiver acquired the GPS constellation, transitioned to the highest navigation accuracy state, and guided the missile to the target area, ultimately resulting in precise target engagement and warhead detonation. All other missile systems performed nominally.

The JASSM program made significant progress toward completing the POA&M. The program successfully completed a Functional Configuration Audit, eight Functional Ground Tests (FGT), and numerous reviews of technical aspects of the program as part of a data mining effort. In addition, the program resolved the GPS Drop-out issue experienced during the April/May 2007 WSEP flights through implementation and testing of an Independent Review Team's recommended corrective actions. Those corrective actions were validated in multiple FGTs and verified in a successful flight test in December 2007. All of the planned characterization flight test missiles (planned for February/March 2008) will incorporate these changes.

The program continues to work toward completing the POA&M to support a DAB decision to certify the program in the Spring 2008.

There are no significant software related issues with this program at this time.

Note: Classified and unclassified executive summary parameters are displayed in the Classified DAMIR.

### Threshold Breaches

APB Breaches	
--------------	--

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

#### Explanation of Breach

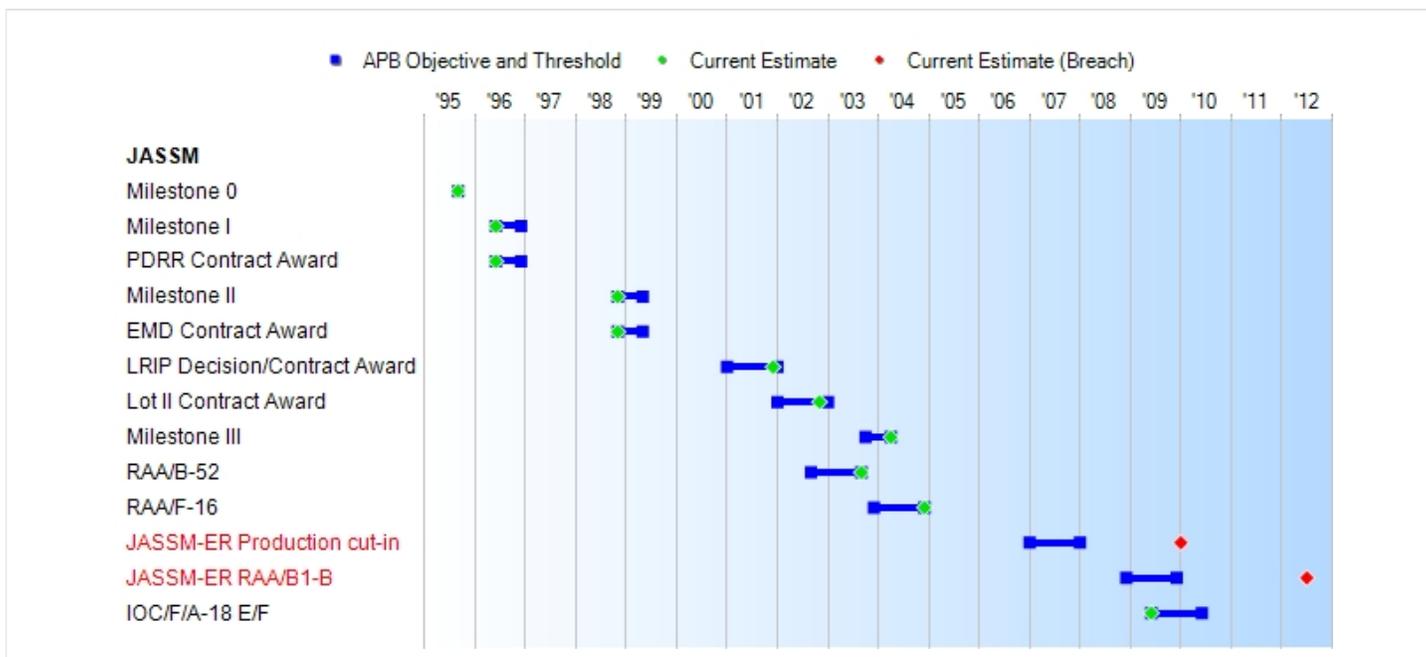
There is a schedule breach to the Acquisition Program Baseline (APB) for JASSM-Extended Range (ER) Production cut-in of two years and JASSM-ER Required Assets Available (RAA)/B1-B of three years.

In accordance with the FY 2006 National Defense Authorization Act (Public Law 109-163), the Department is required to report Nunn-McCurdy unit cost breaches to the "original" APB, i.e., the APB established at Milestone (MS) B (previously MS II). Accordingly, this program is reporting an increase in the Average Procurement Unit Cost (APUC) of at least 50% to the "original" APB. This cost breach was reported in the December 2006 SAR and the program remains in a Nunn-McCurdy deferred certification state until completion of the Plan of Action and Milestones. Additional unit cost breach information is provided in the Unit Cost Information section of this SAR. The program is also reporting increases to the current APB Program Acquisition Unit Cost (PAUC) and APUC of at least 15%. The schedule breach is further exacerbated by the Nunn-McCurdy deferral.

Nunn-McCurdy Breaches	
-----------------------	--

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

### Schedule



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
Milestone III	OCT 2003	OCT 2003	APR 2004	APR 2004
RAA/B-52	SEP 2002	SEP 2002	SEP 2003	SEP 2003
RAA/F-16	DEC 2003	DEC 2003	DEC 2004	DEC 2004
JASSM-ER Production cut-in	JAN 2007	JAN 2007	JAN 2008	<b>JAN 2010</b> <sup>1</sup>
JASSM-ER RAA/B1-B	DEC 2008	DEC 2008	DEC 2009	<b>JUL 2012</b> <sup>1</sup>
IOC/F/A-18 E/F	JUN 2009	JUN 2009	JUN 2010	JUN 2009

(Ch-1)

(Ch-2)

<sup>1</sup>APB Breach

#### Acronyms

- EMD - Engineering and Manufacturing Development
- ER - Extended Range
- IOC - Initial Operational Capability
- JASSM - Joint Air-to-Surface Standoff Missile
- LRIP - Low Rate Initial Production
- PDRR - Program Definition and Risk Reduction
- RAA - Required Assets Available

**Change Explanations**

(Ch-1) FY 2007, FY 2008 budget reductions and Nunn-McCurdy certification deferral resulted in a change in the JASSM Extended Range (ER) production cut-in from January 2008 to January 2010.

(Ch-2) FY 2007, FY 2008 budget reductions and Nunn-McCurdy certification deferral also drove a slip in the current estimate in achieving Required Assets Available (B-1) from July 2010 to July 2012 based on the schedule in completing Operational Testing.

**Memo**

The JASSM Milestone (MS) III decision was held in April 2004 by the Air Force Program Executive Officer for Weapons; however, it was later determined that the Milestone Decision Authority resided with Secretary of Air Force for Acquisition as the Service Acquisition Executive. Accordingly, the MS III decision was reaccomplished in July 2004.

Approved Acquisition Program Baseline thresholds for Low-Rate Initial Production Decision/Contract Award, Required Assets Available (RAA)/B-52, RAA/F-16, JASSM-Extended Range (ER) Production cut-in, JASSM-ER RAA/B1-B, and Initial Operational Capability (IOC)/F/A-18 E/F are one year from objective date, not the usual six months. The Navy (USN) IOC/F/A-18 E/F schedule was included prior to the USN exiting the program.

RAA for the B-52 is 42 missiles

RAA for the F-16 is 25 missiles

RAA for the JASSM-ER B1-B is 30 missiles

## **Performance**

Note: Classified and unclassified performance parameters are displayed in the Classified DAMIR.

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

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

APPN 1319 BA 07 PE 0604312N (Navy) (Shared) SUNK  
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 Acquisition Cost and Quantity

Appropriation	BY1995 \$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	1096.6	1096.6	1261.1	1021.1	1199.8	1199.8	1117.9
Procurement	2901.4	2901.4	3336.6	<b>3445.0</b> <sup>1</sup>	3756.2	3756.2	4947.9
Flyaway	2791.6	--	--	3331.1	3617.5	--	4790.8
Recurring	2791.6	--	--	3331.1	3617.5	--	4790.8
Non Recurring	0.0	--	--	0.0	0.0	--	0.0
Support	109.8	--	--	113.9	138.7	--	157.1
Other Support	109.8	--	--	113.9	138.7	--	157.1
Initial Spares	0.0	--	--	0.0	0.0	--	0.0
MILCON	18.4	18.4	21.2	--	25.1	25.1	--
Acq O&M	--	--	--	--	--	--	--
Total	4016.4	4016.4	N/A	4466.1	4981.1	4981.1	6065.8

#### <sup>1</sup> APB Breach

SAR Production Estimate includes Navy (USN) funding whereas the Current Estimate has the USN program zeroed out in FY 2006-2011.

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	94	94	106
Procurement	5353	5353	4900
Total	5447	5447	5006

Total Program Quantity includes 106 fully configured Research, Development, Test and Evaluation (RDT&E) units for Engineering and Manufacturing Development (EMD)(100 total for the Air Force of which nineteen units are planned for JASSM Extended Range (ER) development and six total for Navy).

The Acquisition Decision Memorandum signed on December 21, 2001, approved the Low-Rate Initial Production (LRIP) decision to procure 176 missiles. Congressional language for the FY 2004 budget dictated that the JASSM program remain in LRIP for Lot 3.

## Funding Summary

### Appropriation and Quantity Summary

#### FY2009 President's Budget / December 2007 SAR (TY\$ M)

Appropriation	Prior	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	To Complete	Total
RDT&E	1092.9	12.0	13.0	0.0	0.0	0.0	0.0	0.0	1117.9
Procurement	584.4	160.0	240.3	241.5	242.4	250.4	254.8	2974.1	4947.9
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
PB2009 Total	1677.3	172.0	253.3	241.5	242.4	250.4	254.8	2974.1	6065.8
PB2008 Total	1696.2	213.3	277.9	295.0	280.4	257.5	261.9	2514.1	5796.3
Delta	-18.9	-41.3	-24.6	-53.5	-38.0	-7.1	-7.1	460.0	269.5

Quantity	Prior	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	To Complete	Total
Development	0	0	0	0	0	0	0	0	106
Production	942	115	260	255	260	260	250	2558	4900
PB2009 Total	942	115	260	255	260	260	250	2558	5006
PB2008 Total	942	210	250	255	260	260	260	2463	5006
Delta	0	-95	10	0	0	0	-10	95	0

## Annual Funding By Appropriation

### Annual Funding TY\$

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1998	--	--	--	--	--	--	5.1
1999	--	--	--	--	--	--	1.7
2000	--	--	--	--	--	--	3.2
2001	--	--	--	--	--	--	1.8
2002	--	--	--	--	--	--	5.4
2003	--	--	--	--	--	--	14.5
2004	--	--	--	--	--	--	18.4
<b>Subtotal</b>	<b>6</b>	--	--	--	--	--	<b>50.1</b>

## Annual Funding TY\$

## 3600 | RDT&amp;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	--	--	--	--	--	--	48.6
2004	--	--	--	--	--	--	25.5
2005	--	--	--	--	--	--	43.3
2006	--	--	--	--	--	--	57.6
2007	--	--	--	--	--	--	33.0
2008	--	--	--	--	--	--	12.0
2009	--	--	--	--	--	--	13.0
<b>Subtotal</b>	<b>100</b>	--	--	--	--	--	<b>1062.6</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 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
1996	--	--	--	--	--	--	26.7
1997	--	--	--	--	--	--	153.5
1998	--	--	--	--	--	--	155.4
1999	--	--	--	--	--	--	114.3
2000	--	--	--	--	--	--	142.8
2001	--	--	--	--	--	--	108.1
2002	--	--	--	--	--	--	74.7
2003	--	--	--	--	--	--	43.3
2004	--	--	--	--	--	--	22.2
2005	--	--	--	--	--	--	36.7
2006	--	--	--	--	--	--	47.4
2007	--	--	--	--	--	--	26.5
2008	--	--	--	--	--	--	9.4
2009	--	--	--	--	--	--	10.0
<b>Subtotal</b>	<b>100</b>	--	--	--	--	--	<b>971.0</b>

In the FY 2009 PB, a budget reduction in the Research Development Testing & Evaluation funding from FY 2008 - FY 2009 was realized due to the suspension of the Maritime Interdiction and Weapon Data Link efforts. Funding from FY 2010 and beyond has been completely zeroed out.

## Annual Funding TY\$

## 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
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	131.9	--	--	131.9	4.5	136.4
2006	75	93.8	--	--	93.8	4.9	98.7
2007	163	148.7	--	--	148.7	4.8	153.5
2008	115	153.1	--	--	153.1	6.9	160.0
2009	260	232.9	--	--	232.9	7.4	240.3
2010	255	233.9	--	--	233.9	7.6	241.5
2011	260	234.4	--	--	234.4	8.0	242.4
2012	260	242.1	--	--	242.1	8.3	250.4
2013	250	246.3	--	--	246.3	8.5	254.8
2014	360	342.2	--	--	342.2	9.4	351.6
2015	363	361.3	--	--	361.3	9.7	371.0
2016	335	395.0	--	--	395.0	10.1	405.1
2017	375	439.2	--	--	439.2	10.5	449.7
2018	375	446.6	--	--	446.6	10.7	457.3
2019	375	455.6	--	--	455.6	10.9	466.5
2020	375	461.5	--	--	461.5	11.4	472.9
<b>Subtotal</b>	<b>4900</b>	<b>4790.8</b>	--	--	<b>4790.8</b>	<b>157.1</b>	<b>4947.9</b>

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

<b>Fiscal Year</b>	<b>Quantity</b>	<b>End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non End Item Recurring Flyaway BY 1995 \$M</b>	<b>Non Recurring Flyaway BY 1995 \$M</b>	<b>Total Flyaway BY 1995 \$M</b>	<b>Total Support BY 1995 \$M</b>	<b>Total Program BY 1995 \$M</b>
2001	--	--	--	--	--	0.2	0.2
2002	76	33.0	--	--	33.0	5.0	38.0
2003	100	34.9	--	--	34.9	10.9	45.8
2004	240	82.3	--	--	82.3	4.6	86.9
2005	288	110.5	--	--	110.5	3.7	114.2
2006	75	76.4	--	--	76.4	4.0	80.4
2007	163	118.0	--	--	118.0	3.8	121.8
2008	115	119.2	--	--	119.2	5.4	124.6
2009	260	177.8	--	--	177.8	5.6	183.4
2010	255	175.1	--	--	175.1	5.7	180.8
2011	260	172.0	--	--	172.0	5.8	177.8
2012	260	174.2	--	--	174.2	5.9	180.1
2013	250	173.7	--	--	173.7	6.0	179.7
2014	360	236.7	--	--	236.7	6.5	243.2
2015	363	244.9	--	--	244.9	6.6	251.5
2016	335	262.5	--	--	262.5	6.7	269.2
2017	375	286.1	--	--	286.1	6.9	293.0
2018	375	285.2	--	--	285.2	6.8	292.0
2019	375	285.3	--	--	285.3	6.8	292.1
2020	375	283.3	--	--	283.3	7.0	290.3
<b>Subtotal</b>	<b>4900</b>	<b>3331.1</b>	--	--	<b>3331.1</b>	<b>113.9</b>	<b>3445.0</b>

Procurement funding does not include Seek Eagle funding of \$5.8M (\$2.8M in FY 2005, and \$3.0M in FY 2007).

## Low Rate Initial Production

	Initial Estimate	Current Estimate
Approval Date	1/31/2001	12/21/2001
Approved Quantity	176	416
Reference	ADM	
Start Year	2001	2001
End Year	2003	2003

The Acquisition Decision Memorandum signed on December 21, 2001, approved the Low-Rate Initial Production (LRIP) decision to procure 176 missiles. Congressional language for the FY 2004 budget dictated that the JASSM program remain in LRIP for Lot 3.

## Foreign Military Sales

Note: Classified and unclassified foreign military sale parameters are displayed in the Classified DAMIR.

## Nuclear Cost

None.

## Unit Cost

### Unit Cost Report

Unit Cost	BY1995 \$M		
	Current UCR Baseline (JUL 2004 APB)	Current Estimate (DEC 2007 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	4016.4	4466.1	
Quantity	5447	5006	
Unit Cost	0.737	0.892	<b>+21.03</b> <sup>1</sup>
Average Procurement Unit Cost (APUC)			
Cost	2901.4	3445.0	
Quantity	5353	4900	
Unit Cost	0.542	0.703	<b>+29.70</b> <sup>1</sup>

Unit Cost	BY1995 \$M		
	Original UCR Baseline (NOV 1998 APB)	Current Estimate (DEC 2007 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	1749.5	4466.1	
Quantity	2469	5006	
Unit Cost	0.709	0.892	+25.81
Average Procurement Unit Cost (APUC)			
Cost	960.0	3445.0	
Quantity	2400	4900	
Unit Cost	0.400	0.703	<b>+75.75</b> <sup>1</sup>

Unit Cost	TY \$M		
	Current UCR Baseline (JUL 2004 APB)	Current Estimate (DEC 2007 SAR)	TY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	4981.1	6065.8	
Unit Cost	0.914	1.212	+32.60
Average Procurement Unit Cost (APUC)			
Cost	3756.2	4947.9	
Unit Cost	0.702	1.010	+43.87

Unit Cost	TY \$M		
	Original UCR Baseline (NOV 1998 APB)	Current Estimate (DEC 2007 SAR)	TY % Change
<b>Program Acquisition Unit Cost (PAUC)</b>			
Cost	2073.3	6065.8	
Unit Cost	0.840	1.212	+44.29
<b>Average Procurement Unit Cost (APUC)</b>			
Cost	1209.6	4947.9	
Unit Cost	0.504	1.010	+100.40

### <sup>1</sup> Nunn-McCurdy Breach

#### Unit Cost Breach Data

Changes from Previous SAR	\$M/Qty.	Percent
PAUC (BY \$M)	0.135	+3.93
APUC (BY \$M)	0.140	+8.39
PAUC Quantity	12	0.00
PAUC (TY \$M)	0.228	+4.65
APUC (TY \$M)	0.236	+8.79

Initial SAR Information DEC 2001	BY1995 \$M	TY \$M
Program Aquisition Cost	2574.3	3119.6

#### Unit Cost PAUC Changes

The "Original Baseline" unit cost measure for Program Acquisition Unit Cost established during Engineering Manufacturing Development (EMD) (1998) included 2,400 baseline missiles. Operational Requirements Document (ORD) changes during Milestone (MS) III (Full Rate Production (FRP)) added the more expensive Extended Range (ER) variant and the overall quantity increased to 4,900 missiles (2,500 missile increase). In addition, program costs have increased due to deferment of planned quantity buys resulting from budget reductions (2004 thru 2008) and implementation of the reliability enhancement program.

#### Unit Cost APUC Changes

The "Original Baseline" unit cost measure for Average Procurement Unit Cost established during EMD (1998) included 2,400 baseline missiles. ORD changes during MS III (FRP) added the more expensive ER variant and the overall quantity increased to 4,900 missiles (2,500 missile increase). In addition, program costs have increased due to deferment of planned quantity buys resulting from budget reductions (2004 thru 2008) and implementation of the reliability enhancement program.

#### Impact of Performance or Schedule Changes

ORD changes during MS III (FRP) added the more expensive ER variant and overall quantity increased to 4,900 missiles (2,500 missile increase). In addition, program costs have increased due to deferment of planned quantity buys resulting from budget reductions (2004 thru 2008) and implementation of the reliability enhancement program. The schedule for ER production cut-in has been adjusted as a result of FY 2007 and FY 2008 Budget cuts and Nunn-McCurdy certification deferral. The adjusted schedule provides for a slower ramp up of ER missiles and extension of the production buy profile.

#### Program Management or Control

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The JASSM Program Office has continued to work with key stakeholders to address the Nunn-McCurdy Acquisition Program Baseline breach due to cost growth in the production estimate. Office of the Under Secretary of Defense for Acquisition, Technology and Logistics approved the JASSM Reliability Improvement Plan of Action and Milestones (POA&M) Phase I strategy. The POA&M addresses actions necessary to support a Defense Acquisition Board certification decision in Spring 2008.

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**Cost Control Actions**

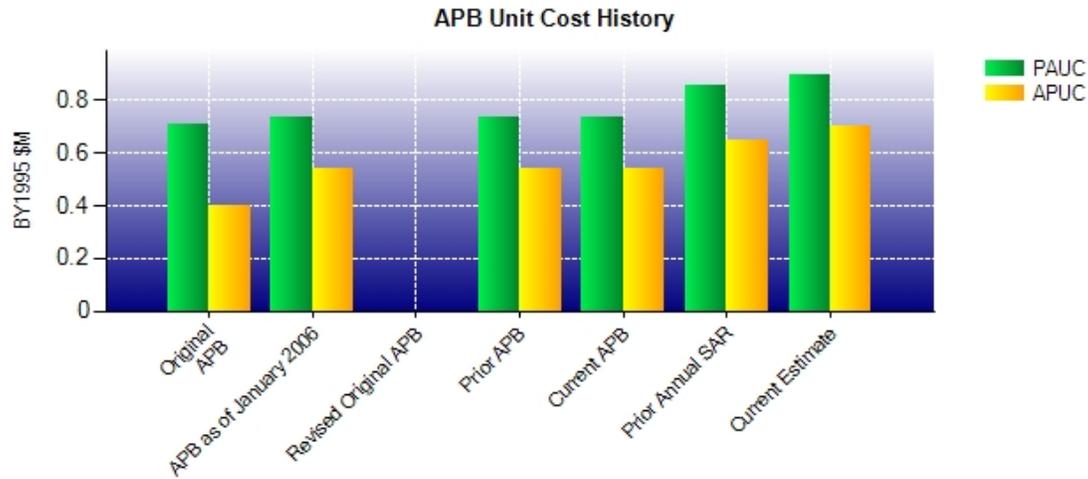
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**Nunn-McCurdy Comments**

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### Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
<b>Original APB</b>	NOV 1998	0.709	0.400	0.840	0.504
<b>APB as of January 2006</b>	JUL 2004	0.737	0.542	0.914	0.702
<b>Revised Original APB</b>	N/A	N/A	N/A	N/A	N/A
<b>Prior APB</b>	MAR 2004	0.737	0.542	0.914	0.702
<b>Current APB</b>	JUL 2004	0.737	0.542	0.914	0.702
<b>Prior Annual SAR</b>	DEC 2006	0.858	0.649	1.158	0.928
<b>Current Estimate</b>	DEC 2007	0.892	0.703	1.212	1.010

The June 14, 1996 SAR Planning estimate consisted of a quantity of 44 missiles for Research Development Testing & Evaluation (RDT&E) with Base Year (BY) funding of \$732.4M {Program Acquisition Unit Cost (PAUC) - \$16.645M}. The November 9, 1998 Development Acquisition Program Baseline (APB) reflected a quantity of 2469 (69 RDT&E & 2400 production missiles) with total BY funding of \$1,749.5 ( \$771.1M RDT&E, \$960.0M production, & \$18.4M Military Construction){PAUC -\$.709M & Average Procurement Unit Cost (APUC) - \$.400M}. The November 1998 APB provides a more accurate assessment of PAUC and APUC.

### 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	
0.840	-0.021	-0.142	0.049	0.089	0.083	0.000	0.016	0.074	0.914

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

PAUC Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.914	0.036	0.016	0.043	0.003	0.198	0.000	0.002	0.297	1.212

**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	
0.504	-0.016	0.039	0.030	0.075	0.053	0.000	0.017	0.198	0.702

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

APUC Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.702	0.035	-0.006	0.049	0.000	0.228	0.000	0.002	0.308	1.010

**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	4981.1	6065.8
Total Quantity	44	2469	5447	5006
Prog. Acq. Unit Cost (PAUC)	18.439	0.840	0.914	1.212

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

**Cost Variance**

<b>Summary Then Year \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Prod Est)	1199.8	3756.2	25.1	4981.1
Previous Changes				
Economic	+7.9	+194.1	0.0	+202.0
Quantity	+22.2	-345.4	0.0	-323.2
Schedule	-25.8	+225.3	0.0	+199.5
Engineering	+143.9	0.0	0.0	+143.9
Estimating	-100.0	+734.6	-25.1	+609.5
Other	0.0	0.0	0.0	0.0
Support	0.0	-16.5	0.0	-16.5
Subtotal	+48.2	+792.1	-25.1	+815.2
Current Changes				
Economic	-0.8	-22.7	--	-23.5
Quantity	--	--	--	--
Schedule	--	+13.5	--	+13.5
Engineering	-129.2	--	--	-129.2
Estimating	-0.1	+384.1	--	+384.0
Other	--	--	--	--
Support	--	+24.7	--	+24.7
Subtotal	-130.1	+399.6	--	+269.5
Total Changes	-81.9	+1191.7	-25.1	+1084.7
CE - Cost Variance	1117.9	4947.9	--	6065.8
CE - Cost & Funding	1117.9	4947.9	--	6065.8

<b>Summary Base Year 1995 \$M</b>				
	<b>RDT&amp;E</b>	<b>Proc</b>	<b>MILCON</b>	<b>Total</b>
SAR Baseline (Prod Est)	1096.6	2901.4	18.4	4016.4
Previous Changes				
Economic	0.0	0.0	0.0	0.0
Quantity	+17.8	-248.7	0.0	-230.9
Schedule	-20.8	0.0	0.0	-20.8
Engineering	+108.3	0.0	0.0	+108.3
Estimating	-83.2	+538.6	-18.4	+437.0
Other	0.0	0.0	0.0	0.0
Support	0.0	-12.9	0.0	-12.9
Subtotal	+22.1	+277.0	-18.4	+280.7
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	0.0	--	0.0
Engineering	-97.5	--	--	-97.5
Estimating	-0.1	+249.6	--	+249.5
Other	--	--	--	--
Support	--	+17.0	--	+17.0
Subtotal	-97.6	+266.6	--	+169.0
Total Changes	-75.5	+543.6	-18.4	+449.7
CE - Cost Variance	1021.1	3445.0	--	4466.1
CE - Cost & Funding	1021.1	3445.0	--	4466.1

Previous Estimate: December 2006

RDT&E	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	-0.8
Decreased due to removal of Weapon Data Link/Maritime Interdiction efforts (Engineering)	-97.5	-129.2
Adjustment for current and prior escalation. (Estimating)	-0.1	-0.1
RDT&E Subtotal	-97.6	-130.1

Procurement	\$M	
	Base Year	Then Year
<b>Current Change Explanations</b>		
Revised escalation indices. (Economic)	N/A	-22.7
Stretch-out of procurement buy profile. (Schedule)	0.0	+13.5
Adjustment to missile hardware cost (Estimating)	+148.6	+229.9
Implementation of reliability program (Estimating)	+100.5	+153.7
Adjustment for current and prior escalation. (Estimating)	+0.5	+0.5
Increase in support of reliability program (Support)	+17.0	+24.7
Procurement Subtotal	+266.6	+399.6

## Contracts

### Appropriation: RDT&E

Contract Name	<b>F-/18E-F &amp; JMPS Integrat</b>
Contractor	Lockheed Martin (LM)
Contractor Location	Orlando , FL 32819
Contract Number, Type	F08635-03-C-0059, CPIF
Award Date	April 17, 2003
Definitization Date	April 17, 2003

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
52.9	N/A	6	27.6	N/A	6	27.6	27.6

	Cost Variance	Schedule Variance
Previous Cumulative Variances	+3.3	0.0
Cumulative Variances To Date (12/31/2007)	+0.5	0.0
Net Change	-2.8	+0.0
Percent Variance	+2.33	0.00
Percent Complete	+96.41	

### Cost And Schedule Variance Explanations

The net favorable cost variance of +2.33M is due to a revision to the forward pricing overhead rates and factors issued by LM effective October 2007.

Schedule variance - no significant variance to report.

### Contract Comments

The Navy ended its participation in the program in FY 2005 and the contract has been restructured.

<b>Appropriation: RDT&amp;E</b>
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Contract Name	JASSM-ER Phase II
Contractor	Lockheed Martin (LM)
Contractor Location	Orlando , FL
Contract Number, Type	FA8682-04-C-0004, CPAF
Award Date	February 20, 2004
Definitization Date	February 20, 2004

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
79.0	N/A	7	108.2	N/A	19	108.2	108.2

	Cost Variance	Schedule Variance
Previous Cumulative Variances	+0.5	-0.4
Cumulative Variances To Date (12/31/2007)	+0.2	-0.2
Net Change	-0.3	+0.2
Percent Variance	+0.26	-0.25
Percent Complete	+85.76	

<b>Cost And Schedule Variance Explanations</b>
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Cost and Schedule variances - Not significant enough to report.

<b>Contract Comments</b>
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This contract is more than 90% complete and wil not be reported again.

<b>Appropriation: Procurement</b>
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Contract Name	<b>JASSM PROD (Lot 3/4/5)</b>
Contractor	Lockheed Martin (LM)
Contractor Location	Orlando , FL 32819
Contract Number, Type	FA8682-04-C-0060, FFP
Award Date	November 26, 2003
Definitization Date	November 26, 2003

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
76.4	N/A	200	301.5	N/A	603	301.5	301.5

<b>Cost And Schedule Variance Explanations</b>
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Cost and Schedule variance reporting is not required on this FFP contract.

<b>Contract Comments</b>
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The contract price increase from \$299.4M to \$301.5M due to the following additions to the contract: Weapon System Evaluation Program support, Test Instrumentation Kits Batteries, and Actuator Control Card effort.

**Appropriation: Procurement**

Contract Name **JASSM PROD (Lot 6)**  
 Contractor Lockheed Martin (LM)  
 Contractor Location Orlando , FL 32819  
 Contract Number, Type FA8682-07-D-0117, 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	128.0	N/A	163	128.0	128.0

**Cost And Schedule Variance Explanations**

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

**Contract Comments**

This contract represents the Lot 6 production contract to acquire 163 missiles.

**Deliveries and Expenditures**

<b>Deliveries To Date</b>	<b>Plan</b>	<b>Actual</b>	<b>Total Quantity</b>	<b>Percent Delivered</b>
Development	94	94	106	88.68%
Production	609	609	4900	12.43%
<b>Total Program Quantities Delivered</b>	<b>703</b>	<b>703</b>	<b>5006</b>	<b>14.04%</b>

<b>Expenditures and Appropriations (TY \$M)</b>			
Total Acquisition Cost	6065.8	Years Appropriated	13
Expenditures To Date	1497.0	Percent Years Appropriated	52.00%
Percent Expended	24.68%	Appropriated to Date	1849.3
Total Funding Years	25	Percent Appropriated	30.49%

The Development and Production deliveries are adjusted to reflect the actual deliveries to date.

## Operating and Support Cost

### Assumptions and Ground Rules

The JASSM Operating and Support (O&S) estimate includes requirements for 4,900 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 20-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 January 2007.

There is no antecedent system for JASSM.

#### Costs BY1995 \$K

Cost Element	JASSM Avg Annual Cost Per Missile	N/A
Mission Pay & Allowance	0.0	--
Unit Level Consumption	0.0	--
Intermediate Maintenance	0.0	--
Depot Maintenance	0.0	--
Contractor Support	2.1	--
Sustaining Support	0.0	--
Indirect	0.0	--
Other	--	--
Total Unitized Cost (Base Year 1995 \$)	2.1	--

Total O&S Costs \$M	JASSM	N/A
Base Year	210.1	--
Then Year	408.5	--