



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-766



Joint Standoff Weapon - Baseline Variant and Unitary Warhead Variant (JSOW)

As of FY 2011 President's Budget

Defense Acquisition Management
Information Retrieval
(DAMIR)

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Common Acronyms and Abbreviations for MDAP Programs

Acq O&M - Acquisition-Related Operations and Maintenance
ACAT - Acquisition Category
ADM - Acquisition Decision Memorandum
APB - Acquisition Program Baseline
APPN - Appropriation
APUC - Average Procurement Unit Cost
\$B - Billions of Dollars
BA - Budget Authority/Budget Activity
Blk - Block
BY - Base Year
CAPE - Cost Assessment and Program Evaluation
CARD - Cost Analysis Requirements Description
CDD - Capability Development Document
CLIN - Contract Line Item Number
CPD - Capability Production Document
CY - Calendar Year
DAB - Defense Acquisition Board
DAE - Defense Acquisition Executive
DAMIR - Defense Acquisition Management Information Retrieval
DoD - Department of Defense
DSN - Defense Switched Network
EMD - Engineering and Manufacturing Development
EVM - Earned Value Management
FOC - Full Operational Capability
FMS - Foreign Military Sales
FRP - Full Rate Production
FY - Fiscal Year
FYDP - Future Years Defense Program
ICE - Independent Cost Estimate
IOC - Initial Operational Capability
Inc - Increment
JROC - Joint Requirements Oversight Council
\$K - Thousands of Dollars
KPP - Key Performance Parameter
LRIP - Low Rate Initial Production
\$M - Millions of Dollars
MDA - Milestone Decision Authority
MDAP - Major Defense Acquisition Program
MILCON - Military Construction
N/A - Not Applicable
O&M - Operations and Maintenance
ORD - Operational Requirements Document
OSD - Office of the Secretary of Defense
O&S - Operating and Support
PAUC - Program Acquisition Unit Cost

PB - President's Budget
PE - Program Element
PEO - Program Executive Officer
PM - Program Manager
POE - Program Office Estimate
RDT&E - Research, Development, Test, and Evaluation
SAR - Selected Acquisition Report
SCP - Service Cost Position
TBD - To Be Determined
TY - Then Year
UCR - Unit Cost Reporting
U.S. - United States
USD(AT&L) - Under Secretary of Defense (Acquisition, Technology and Logistics)

Program Information

Program Name

Joint Standoff Weapon (JSOW) Baseline / Unitary (JSOW)

DoD Component

Navy

Responsible Office

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References

Baseline/BLU-108

SAR Baseline (Production Estimate)

Navy Acquisition Executive (NAE) Approved Acquisition Program Baseline (APB) dated July 10, 1999

Approved APB

Navy Acquisition Executive (NAE) Approved Acquisition Program Baseline (APB) dated December 20, 2004

Unitary

SAR Baseline (Production Estimate)

Navy Acquisition Executive (NAE) Approved Acquisition Program Baseline (APB) dated December 20, 2004

Approved APB

Navy Acquisition Executive (NAE) Approved Acquisition Program Baseline (APB) dated August 5, 2009

Mission and Description

The JSOW is an air-to-ground weapon designed to attack a variety of targets during day, night, and adverse weather conditions. JSOW enhances aircraft survivability by providing the capability for launch aircraft to standoff outside the range of most target area surface-to-air threat systems. The JSOW launch-and-leave capability allows several target kills per aircraft sortie. The common JSOW variant nomenclature is JSOW-A (Baseline), JSOW-A-1, JSOW-B (BLU-108), JSOW-C (Unitary), and JSOW-C-1 (Network Enabled Weapon Moving Target Capability).

The JSOW program developed a Baseline weapon for use against fixed, area targets. The JSOW Baseline variant includes a kinematically efficient airframe and integrated Global Positioning System (GPS)/Inertial Navigation System (INS) navigation capability, and a BLU-97/B submunition payload. The JSOW-A-1 configuration carries a BLU-111 warhead and is being marketed by Raytheon to Foreign Military Sales (FMS) customers. The JSOW-B variant incorporates the Sensor Fuzed Weapon submunition (BLU-108) into the baseline vehicle. The JSOW-B variant provides a standoff delivery capability against massed armor and land combat vehicles. Production of the JSOW-B is deferred.

JSOW-C and C-1 variants both use the Unitary lethal package, termed Broach, which is produced by BAE Systems. The Broach incorporates an advanced multi-stage warhead, which allows the warfighter to attack blast/frag sensitive and hardened point targets. JSOW-C uses an Imaging Infrared (IIR) seeker with embedded Autonomous Targeting Acquisition (ATA) software, increasing accuracy and lethality. The IIR affords the mission planner precise aimpoint selection and target discrimination. An anti-tamper/anti-spoofing capability was inserted in the guidance electronics unit with FY 2006 production. The JSOW C-1 adds a weapon data link and seeker upgrade to attack moving maritime targets in addition to the JSOW-C stationary land target mission set. This vital Joint Requirements Oversight Council (JROC) approved capability will be cut into production with FY 2009 deliveries beginning in July 2010.

Through adherence to international standards for weapons interfaces and minimized weight and dimension considerations, JSOW is compatible with Navy, Air Force and North Atlantic Treaty Organization (NATO) aircraft. JSOW is a Navy-led, joint program.

Executive Summary

JSOW (AGM-154) is in the post MS-III production phase with final JSOW-A dispenser variant deliveries completed in July 2007. JSOW-C Unitary variant full rate production continues with on-time deliveries for the past 100 months through January 2010.

JSOW C-1 (AGM-154C-1) is an engineering change proposal (ECP) modification to the JSOW-C Unitary variant which adds a datalink and updates obsolete seeker hardware/software to address the warfighter's Maritime Interdiction Capability Requirement. The ECP effort has experienced schedule challenges due mainly to the datalink development and hardware delivery delays which have impacted system-level software development and integration/test progress. The program has demonstrated technical performance with successful datalink communication and message exchanges in support of final missile integration. First flight of the JSOW C-1 Captive Flight Vehicle is scheduled for second quarter FY 2010 with a first free flight scheduled for late FY 2010.

The JSOW program continues to meet all Capability Production Document (CPD) and Acquisition Program Baseline (APB) cost, schedule and performance thresholds with margin.

On February 2, 2008 the JSOW Capabilities Production Document (CPD) was approved by the Joint Requirements Oversight Council (JROC).

On July 31, 2008, Commander, Operational Test and Evaluation Force (COMPOPTVFOR) issued an interim report message on the results of the JSOW-C OTIIIA test phase. There were no major deficiencies or safety issues noted. As a result, the program transferred the accumulated 473 AGM-154C JSOW Block II weapons to the fleet. The final report was issued January 28, 2009, assessing the system as a "...highly accurate and lethal weapon," found to be both operationally effective and operationally suitable.

On September 18, 2008 the AGM-154C-1 System-level Critical Design Review was successfully completed.

On December 4, 2008 the Department of the Navy Chief Information Officer (DON CIO) approved an update to the JSOW Clinger Cohen Act (CCA) Confirmation and Information Assurance Strategy (CCA/IAS) to support the contract award for the FY09 AGM-154C-1.

In March 2009, the Navy awarded the FY 2009 production contract to Raytheon Missile Systems (RMS) of Tucson, AZ for 350 AGM-154C-1 weapons, of which 70 were Foreign Military Sales (FMS).

In May 2009, the third and final stationary land target regression test flight with the new C-1 seeker in a JSOW test vehicle was completed. The test was a success and verified seeker hardware performance entering the integration and test phase.

On August 5, 2009 a successful JSOW C-1 Test Readiness Review (TRR)/Flight Readiness Review was completed at China Lake, CA assessing the system ready for integration and test activities.

On October 1, 2009 a JSOW Extended Range (ER) demonstration free flight was successfully completed. Demonstrated range was 264 nautical miles. The demonstration was a Raytheon funded follow-on event to the congressionally funded captive carriage demonstration conducted on April 16, 2009.

On October 23, 2009 the Rockwell Collins data link used in the JSOW C-1 began formal qualification testing.

During the week of November 2, 2009 RMS and Machinists Union Local Lodge 933 ratified a new three-year labor contract.

There are no significant software issues for this program at this time. The JSOW program continues to meet all cost, schedule, and performance thresholds.

Threshold Breaches

Baseline/BLU-108

APB Breaches		Explanation of Breach	
Schedule	<input type="checkbox"/>	BLU-108 System Mission reliability current estimate is N/A to reflect the historical decision to defer production until the threat evolves.	
Performance	<input checked="" type="checkbox"/>		
Cost	RDT&E		<input type="checkbox"/>
	Procurement		<input type="checkbox"/>
	MILCON		<input type="checkbox"/>
	Acq O&M		<input type="checkbox"/>
O&S Cost	<input type="checkbox"/>		
Unit Cost	PAUC		<input type="checkbox"/>
	APUC		<input type="checkbox"/>

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

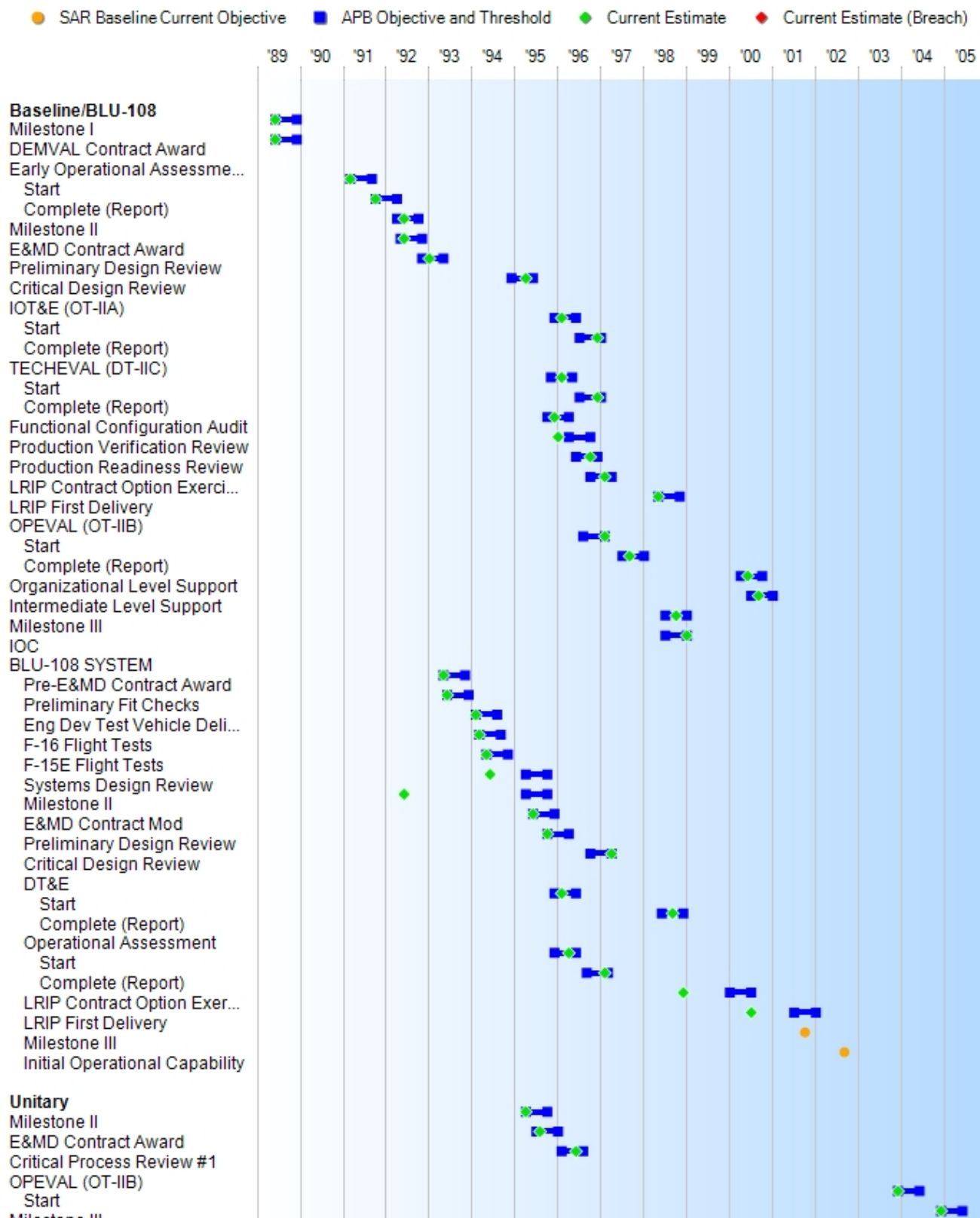
Unitary

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

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

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

Schedule



Baseline/BLU-108

Schedule Events				
Events	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate
Milestone I	Jun 1989	Jun 1989	Dec 1989	Jun 1989
DEMVAl Contract Award	Jun 1989	Jun 1989	Dec 1989	Jun 1989
Early Operational Assessment (OT-I)				
Start	Mar 1991	Mar 1991	Sep 1991	Mar 1991
Complete (Report)	Oct 1991	Oct 1991	Apr 1992	Oct 1991
Milestone II	Apr 1992	Apr 1992	Oct 1992	Jun 1992
E&MD Contract Award	May 1992	May 1992	Nov 1992	Jun 1992
Preliminary Design Review	Nov 1992	Nov 1992	May 1993	Jan 1993
Critical Design Review	Dec 1994	Dec 1994	Jun 1995	Apr 1995
IOT&E (OT-IIA)				
Start	Dec 1995	Dec 1995	Jun 1996	Feb 1996
Complete (Report)	Jul 1996	Jul 1996	Jan 1997	Dec 1996
TECHEVAL (DT-IIC)				
Start	Nov 1995	Nov 1995	May 1996	Feb 1996
Complete (Report)	Jul 1996	Jul 1996	Jan 1997	Dec 1996
Functional Configuration Audit	Oct 1995	Oct 1995	Apr 1996	Dec 1995
Production Verification Review	Apr 1996	Apr 1996	Oct 1996	Jan 1996
Production Readiness Review	Jun 1996	Jun 1996	Dec 1996	Oct 1996
LRIP Contract Option Exercised	Oct 1996	Oct 1996	Apr 1997	Feb 1997
LRIP First Delivery	May 1998	May 1998	Nov 1998	May 1998
OPEVAL (OT-IIB)				
Start	Aug 1996	Aug 1996	Feb 1997	Feb 1997
Complete (Report)	Jul 1997	Jul 1997	Jan 1998	Sep 1997
Organizational Level Support	Apr 2000	Apr 2000	Oct 2000	Jun 2000
Intermediate Level Support	Jul 2000	Jul 2000	Jan 2001	Sep 2000
Milestone III	Jul 1998	Jul 1998	Jan 1999	Oct 1998
IOC	Jul 1998	Jul 1998	Jan 1999	Jan 1999
BLU-108 SYSTEM				
Pre-E&MD Contract Award	May 1993	May 1993	Nov 1993	May 1993
Preliminary Fit Checks	Jun 1993	Jun 1993	Dec 1993	Jun 1993
Eng Dev Test Vehicle Delivery	Feb 1994	Feb 1994	Aug 1994	Feb 1994
F-16 Flight Tests	Mar 1994	Mar 1994	Sep 1994	Mar 1994
F-15E Flight Tests	May 1994	May 1994	Nov 1994	May 1994

Systems Design Review	Apr 1995	Apr 1995	Oct 1995	Jun 1994
Milestone II	Apr 1995	Apr 1995	Oct 1995	Jun 1992
E&MD Contract Mod	Jun 1995	Jun 1995	Dec 1995	Jun 1995
Preliminary Design Review	Oct 1995	Oct 1995	Apr 1996	Oct 1995
Critical Design Review	Oct 1996	Oct 1996	Apr 1997	Apr 1997
DT&E				
Start	Dec 1995	Dec 1995	Jun 1996	Feb 1996
Complete (Report)	Jun 1998	Jun 1998	Dec 1998	Sep 1998
Operational Assessment				
Start	Dec 1995	Dec 1995	Jun 1996	Apr 1996
Complete (Report)	Sep 1996	Sep 1996	Mar 1997	Feb 1997
LRIP Contract Option Exercised	Jan 2000	Jan 2000	Jul 2000	Dec 1998
LRIP First Delivery	Jul 2001	Jul 2001	Jan 2002	Jul 2000
Milestone III	Oct 2001	N/A	N/A	N/A
Initial Operational Capability	Sep 2002	N/A	N/A	N/A

Change Explanations

None

Acronyms and Abbreviations

DEMVAL - Demonstration and Validation
 DEV - Development
 DT&E - Developmental Test and Evaluation
 E&MD - Engineering and Manufacturing Development
 ENG - Engineering
 IOC - Initial Operational Capability
 IOT&E - Initial Operational Test and Evaluation
 LRIP - Low Rate Initial Production
 OPEVAL - Operational Evaluation
 OT - Operational Test
 TECHEVAL - Technical Evaluation

Unitary

Schedule Events				
Events	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate
Milestone II	Apr 1995	Apr 1995	Oct 1995	Apr 1995
E&MD Contract Award	Jul 1995	Jul 1995	Jan 1996	Aug 1995
Critical Process Review #1	Feb 1996	Feb 1996	Aug 1996	Jun 1996
OPEVAL (OT-IIB)				
Start	Dec 2003	Dec 2003	Jun 2004	Dec 2003
Milestone III	Dec 2004	Dec 2004	Jun 2005	Dec 2004
Initial Operational Capability	Aug 2004	Aug 2004	Feb 2005	Feb 2005

Change Explanations

None

Acronyms and Abbreviations

DEMVAL - Demonstration and Validation
 DEV - Development
 DT&E - Developmental Test and Evaluation
 E&MD - Engineering and Manufacturing Development
 ENG - Engineering
 IOC - Initial Operational Capability
 IOT&E - Initial Operational Test and Evaluation
 LRIP - Low Rate Initial Production
 OPEVAL - Operational Evaluation
 OT - Operational Test
 TECHEVAL - Technical Evaluation

Performance

Baseline/BLU-108

Performance Characteristics				
SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Demonstrated Performance	Current Estimate
Survivability				
IAW Sys Spec (SD - 901-1)	IAW Sys Spec (SD- 901-1)	IAW Sys Spec (SD- 901-1)	IAW Sys Spec (SD- 901-1)	IAW Sys Spec (SD- 901-1)
Reliability				
N/A	N/A	N/A		
Range (nm from launch at specified conditions)				
Low Altitude (nm)				
>or=15 (200 ft MSL, .8 IMN)	>or=15 (200 ft MSL, .8 IMN)	>or=12 (500 ft MSL, .8 IMN)	N/A	N/A ¹ (Ch--1)
High (nm @ 30K ft MSL, .8 IMN)				
>50	>50	>40	N/A	N/A ¹ (Ch--1)

¹ APB Breach

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

Requirements Reference

Operational Requirements Document (ORD) dated December 10, 2002

Change Explanations

None

Unitary

Performance Characteristics				
SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Demonstrated Performance	Current Estimate
Survivability				
IAW Sys spec SD-901-1	IAW Sys spec SD-901-1	IAW Sys spec SD-901-1	IAW Sys Spec SD-901-1	IAW Sys Spec SD-901-1
Accuracy (CEP)				
Weapon (ft)				
10	10	10	4.5	4.5
Weapon (Air Vehicle) (ft)				
70	70	91	4.7	7.68
Range (nm from launch at specified conditions)				
Low Altitude (NM)				
>or=15 (200 ft MSL, .8 IMN)	>or=15 (200 ft MSL, .8 IMN)	>or=12 (500 ft MSL, .8 IMN)	>12	>or=12 (200 ft MSL, .8 IMN)
High (NM @ 30K ft MSL, .8 IMN)				
>50	>50	>40	63	63
Accuracy, ASUM (SEP) Weapon (ft)				
N/A	10	20	TBD	10
Weapon Data Link				
N/A	3rd Party compatible waveform	IFTU from F/A-18 E/F	TBD	3rd Party compatible waveform >or=.95
Material Availability (Sustainment)				
N/A	>or=.95	>or=.95	TBD	>or=.95
Net-Ready KPP				
N/A	Std Definition	Std Definition	TBD	Std Definition

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

Requirements Reference

Capability Production Document (CPD) dated February 2, 2009

Change Explanations

None

Track to Budget

Baseline/BLU-108

General Notes

This information was entered before Track To Budget was entered on a per subprogram basis. Consequently, the information for the program has been copied to both subprograms.

RDT&E

Appn	BA	PE	
Air Force	3600	05	0604727F
	Project	Name	
	1000	Joint Standoff Weapon (Air Force) (Sunk)	
Navy	1319	05	0604727N
	Project	Name	
	2068	Joint Standoff Weapon (Navy)	

Procurement

Appn	BA	PE	
Navy	1507	02	0204162N
	Line Item	Name	
	2230	Joint Standoff Weapon (Navy)	
Navy	1507	06	0204162N
	Line Item	Name	
	6120	Spares (Shared)	
Air Force	3020	02	0207324F
	Line Item	Name	
	JSOW	JSOW Missile Procurement Air Force (Shared) (Sunk)	

Unitary

General Notes

This information was entered before Track To Budget was entered on a per subprogram basis. Consequently, the information for the program has been copied to both subprograms.

RDT&E

Appn	BA	PE	
Air Force	3600	05	0604727F
	Project	Name	
	1000	Joint Standoff Weapon (Air Force) (Sunk)	
Navy	1319	05	0604727N
	Project	Name	
	2068	Joint Standoff Weapon (Navy)	

Procurement

Appn	BA	PE	
Navy	1507	02	0204162N
	Line Item	Name	
	2230	Joint Standoff Weapon (Navy)	
Navy	1507	06	0204162N
	Line Item	Name	
	6120	Spares	(Shared)
Air Force	3020	02	0207324F
	Line Item	Name	
	JSOW	JSOW Missile Procurement Air Force	(Shared) (Sunk)

Cost and Funding

Cost Summary - Total Program

Total Acquisition Cost - Total Program							
Appropriation	BY 1990 \$M			BY 1990 \$M	TY \$M		
	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Production Estimate	Current APB Production Objective	Current Estimate
RDT&E	836.8	887.8	--	903.5	992.5	1052.9	1077.3
Procurement	4685.5	2636.7	--	2669.7	6852.4	3862.5	3999.4
Flyaway	--	--	--	2640.3	--	--	3960.0
Recurring	--	--	--	2331.7	--	--	3531.2
Non Recurring	--	--	--	308.6	--	--	428.8
Support	--	--	--	29.4	--	--	39.4
Other Support	--	--	--	27.3	--	--	36.1
Initial Spares	--	--	--	2.1	--	--	3.3
MILCON	21.8	0.0	--	0.0	28.6	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	5544.1	3524.5	N/A	3573.2	7873.5	4915.4	5076.7

Cost and Funding

Cost Summary - Baseline/BLU-108

Total Acquisition Cost - Baseline/BLU-108							
Appropriation	BY 1990 \$M			BY 1990 \$M	TY \$M		
	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Production Estimate	Current APB Production Objective	Current Estimate
RDT&E	554.0	564.1	620.5	563.6	645.0	643.6	643.6
Procurement	2990.5	941.7	1035.9	914.9	4225.1	1235.2	1219.1
Flyaway	--	--	--	893.1	--	--	1191.7
Recurring	--	--	--	718.1	--	--	965.8
Non Recurring	--	--	--	175.0	--	--	225.9
Support	--	--	--	21.8	--	--	27.4
Other Support	--	--	--	21.0	--	--	26.3
Initial Spares	--	--	--	0.8	--	--	1.1
MILCON	21.8	0.0	--	0.0	28.6	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	3566.3	1505.8	N/A	1478.5	4898.7	1878.8	1862.7

Total Quantity - Baseline/BLU-108			
Quantity	SAR Baseline Production Estimate	Current APB Production	Current Estimate
RDT&E		0	0
Procurement		16124	3334
Total		16124	3334

Quantity Notes

3334 procurement missiles include 2800 Navy Baselines, 523 Air Force Baselines, and 11 Air Force BLU-108s.

Cost Summary - Unitary

Total Acquisition Cost - Unitary							
Appropriation	BY 1990 \$M			BY 1990 \$M	TY \$M		
	SAR Baseline Production Estimate	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Production Estimate	Current APB Production Objective	Current Estimate
RDT&E	282.8	323.7	356.1	339.9	347.5	409.3	433.7
Procurement	1695.0	1695.0	1864.5	1754.8	2627.3	2627.3	2780.3
Flyaway	--	--	--	1747.2	--	--	2768.3
Recurring	--	--	--	1613.6	--	--	2565.4
Non Recurring	--	--	--	133.6	--	--	202.9
Support	--	--	--	7.6	--	--	12.0
Other Support	--	--	--	6.3	--	--	9.8
Initial Spares	--	--	--	1.3	--	--	2.2
MILCON	0.0	0.0	--	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	1977.8	2018.7	N/A	2094.7	2974.8	3036.6	3214.0

Confidence Level

Confidence Level of cost estimate for current APB: 50%

The current estimate seeks to provide sufficient resources to execute the program under normal conditions, encountering average levels of technical, schedule and programmatic risk, and external interference. It is consistent with average resource expenditures on historical efforts.

Total Quantity - Unitary			
Quantity	SAR Baseline Production Estimate	Current APB Production	Current Estimate
RDT&E	0	0	0
Procurement	7000	7000	7000
Total	7000	7000	7000

Cost and Funding

Funding Summary - Total Program

Appropriation Summary									
FY 2011 President's Budget / December 2009 SAR (TY\$ M)									
Appropriation	Prior	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
RDT&E	1052.4	10.0	12.6	0.5	0.6	0.6	0.6	0.0	1077.3
Procurement	1723.8	142.2	131.4	147.3	150.1	167.9	170.5	1366.2	3999.4
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2011 Total	2776.2	152.2	144.0	147.8	150.7	168.5	171.1	1366.2	5076.7
PB 2009 Total	2781.8	158.7	162.8	167.2	170.4	174.7	178.1	793.0	4586.7
Delta	-5.6	-6.5	-18.8	-19.4	-19.7	-6.2	-7.0	573.2	490.0

Cost and Funding

Funding Summary - Baseline/BLU-108

Appropriation Summary									
FY 2011 President's Budget / December 2009 SAR (TY\$ M)									
Appropriation	Prior	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
RDT&E	643.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	643.6
Procurement	1016.3	0.0	0.0	0.0	0.0	0.0	0.0	202.8	1219.1
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2011 Total	1659.9	0.0	0.0	0.0	0.0	0.0	0.0	202.8	1862.7
PB 2009 Total	1659.9	0.0	0.0	0.3	0.3	23.5	21.0	156.6	1861.6
Delta	0.0	0.0	0.0	-0.3	-0.3	-23.5	-21.0	46.2	1.1

Quantity Summary										
FY 2011 President's Budget / December 2009 SAR (TY\$ M)										
Quantity	Undistributed	Prior	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	2517	0	0	0	0	0	0	817	3334
PB 2011 Total	0	2517	0	0	0	0	0	0	817	3334
PB 2009 Total	0	2517	0	0	0	0	111	101	605	3334
Delta	0	0	0	0	0	0	-111	-101	212	0

Funding Summary - Unitary

Appropriation Summary									
FY 2011 President's Budget / December 2009 SAR (TY\$ M)									
Appropriation	Prior	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
RDT&E	408.8	10.0	12.6	0.5	0.6	0.6	0.6	0.0	433.7
Procurement	707.5	142.2	131.4	147.3	150.1	167.9	170.5	1163.4	2780.3
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2011 Total	1116.3	152.2	144.0	147.8	150.7	168.5	171.1	1163.4	3214.0
PB 2009 Total	1121.9	158.7	162.8	166.9	170.1	151.2	157.1	636.4	2725.1
Delta	-5.6	-6.5	-18.8	-19.1	-19.4	17.3	14.0	527.0	488.9

Quantity Summary										
FY 2011 President's Budget / December 2009 SAR (TY\$ M)										
Quantity	Undistributed	Prior	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	1786	357	333	360	366	408	412	2978	7000
PB 2011 Total	0	1786	357	333	360	366	408	412	2978	7000
PB 2009 Total	0	2048	515	535	524	546	481	494	1857	7000
Delta	0	-262	-158	-202	-164	-180	-73	-82	1121	0

Cost and Funding

Annual Funding By Appropriation - Baseline/BLU-108

Annual Funding - Baseline/BLU-108							
1319 RDT&E Research, Development, Test, and Evaluation, Navy							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1987	--	--	--	--	--	--	1.0
1988	--	--	--	--	--	--	19.2
1989	--	--	--	--	--	--	13.5
1990	--	--	--	--	--	--	8.5
1991	--	--	--	--	--	--	16.5
1992	--	--	--	--	--	--	45.8
1993	--	--	--	--	--	--	58.8
1994	--	--	--	--	--	--	80.9
1995	--	--	--	--	--	--	104.3
1996	--	--	--	--	--	--	46.9
1997	--	--	--	--	--	--	35.2
1998	--	--	--	--	--	--	8.2
1999	--	--	--	--	--	--	5.4
2000	--	--	--	--	--	--	0.1
2001	--	--	--	--	--	--	--
2002	--	--	--	--	--	--	--
2003	--	--	--	--	--	--	--
2004	--	--	--	--	--	--	4.9
Subtotal	--	--	--	--	--	--	449.2

Annual Funding - Baseline/BLU-108							
1319 RDT&E Research, Development, Test, and Evaluation, Navy							
Fiscal Year	Quantity	BY 1990 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1987	--	--	--	--	--	--	1.1
1988	--	--	--	--	--	--	20.3
1989	--	--	--	--	--	--	13.7
1990	--	--	--	--	--	--	8.3
1991	--	--	--	--	--	--	15.6
1992	--	--	--	--	--	--	42.0
1993	--	--	--	--	--	--	52.7
1994	--	--	--	--	--	--	71.1
1995	--	--	--	--	--	--	89.9
1996	--	--	--	--	--	--	39.8
1997	--	--	--	--	--	--	29.5
1998	--	--	--	--	--	--	6.8
1999	--	--	--	--	--	--	4.4
2000	--	--	--	--	--	--	0.1
2001	--	--	--	--	--	--	--
2002	--	--	--	--	--	--	--
2003	--	--	--	--	--	--	--
2004	--	--	--	--	--	--	3.7
Subtotal	--	--	--	--	--	--	399.0

Annual Funding - Baseline/BLU-108							
3600 RDT&E Research, Development, Test, and Evaluation, Air Force							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1993	--	--	--	--	--	--	5.4
1994	--	--	--	--	--	--	23.1
1995	--	--	--	--	--	--	51.7
1996	--	--	--	--	--	--	41.8
1997	--	--	--	--	--	--	22.0
1998	--	--	--	--	--	--	21.5
1999	--	--	--	--	--	--	17.2
2000	--	--	--	--	--	--	10.2
2001	--	--	--	--	--	--	1.5
Subtotal	--	--	--	--	--	--	194.4

Annual Funding - Baseline/BLU-108							
3600 RDT&E Research, Development, Test, and Evaluation, Air Force							
Fiscal Year	Quantity	BY 1990 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1993	--	--	--	--	--	--	4.8
1994	--	--	--	--	--	--	20.3
1995	--	--	--	--	--	--	44.5
1996	--	--	--	--	--	--	35.3
1997	--	--	--	--	--	--	18.4
1998	--	--	--	--	--	--	17.8
1999	--	--	--	--	--	--	14.1
2000	--	--	--	--	--	--	8.2
2001	--	--	--	--	--	--	1.2
Subtotal	--	--	--	--	--	--	164.6

Annual Funding - Baseline/BLU-108 1507 Procurement Weapons Procurement, Navy								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
1996	--	--	--	24.3	24.3	--	24.3	
1997	100	46.2	--	12.8	59.0	1.8	60.8	
1998	135	58.1	--	10.7	68.8	3.6	72.4	
1999	328	83.2	--	33.9	117.1	2.5	119.6	
2000	454	103.4	--	10.5	113.9	0.9	114.8	
2001	29	120.0	--	33.4	153.4	2.2	155.6	
2002	--	--	--	--	--	--	--	
2003	490	104.0	--	19.9	123.9	0.6	124.5	
2004	231	65.7	--	3.9	69.6	0.7	70.3	
2005	216	52.2	--	10.3	62.5	0.6	63.1	
2006	--	--	--	--	--	--	--	
2007	--	--	--	--	--	--	--	
2008	--	--	--	--	--	--	--	
2009	--	--	--	--	--	--	--	
2010	--	--	--	--	--	--	--	
2011	--	--	--	--	--	--	--	
2012	--	--	--	--	--	--	--	
2013	--	--	--	--	--	--	--	
2014	--	--	--	--	--	--	--	
2015	--	--	--	--	--	--	--	
2016	--	--	--	--	--	--	--	
2017	165	32.0	--	2.7	34.7	0.1	34.8	
2018	165	33.4	--	3.9	37.3	0.1	37.4	
2019	164	33.9	--	2.9	36.8	0.1	36.9	
2020	161	40.5	--	6.3	46.8	0.3	47.1	
2021	162	41.6	--	4.7	46.3	0.3	46.6	
Subtotal	2800	814.2	--	180.2	994.4	13.8	1008.2	

Annual Funding - Baseline/BLU-108 1507 Procurement Weapons Procurement, Navy								
Fiscal Year	Quantity	BY 1990 \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
1996	--	--	--	20.4	20.4	--	20.4	
1997	100	38.3	--	10.6	48.9	1.5	50.4	
1998	135	47.6	--	8.8	56.4	3.0	59.4	
1999	328	67.4	--	27.5	94.9	2.0	96.9	
2000	454	82.6	--	8.4	91.0	0.7	91.7	
2001	29	94.7	--	26.4	121.1	1.7	122.8	
2002	--	--	--	--	--	--	--	
2003	490	79.6	--	15.1	94.7	0.5	95.2	
2004	231	48.8	--	2.9	51.7	0.5	52.2	
2005	216	37.7	--	7.5	45.2	0.4	45.6	
2006	--	--	--	--	--	--	--	
2007	--	--	--	--	--	--	--	
2008	--	--	--	--	--	--	--	
2009	--	--	--	--	--	--	--	
2010	--	--	--	--	--	--	--	
2011	--	--	--	--	--	--	--	
2012	--	--	--	--	--	--	--	
2013	--	--	--	--	--	--	--	
2014	--	--	--	--	--	--	--	
2015	--	--	--	--	--	--	--	
2016	--	--	--	--	--	--	--	
2017	165	18.9	--	1.6	20.5	0.1	20.6	
2018	165	19.4	--	2.2	21.6	0.1	21.7	
2019	164	19.4	--	1.6	21.0	0.1	21.1	
2020	161	22.7	--	3.6	26.3	0.2	26.5	
2021	162	23.0	--	2.5	25.5	0.2	25.7	
Subtotal	2800	600.1	--	139.1	739.2	11.0	750.2	

Annual Funding - Baseline/BLU-108 3020 Procurement Missile Procurement, Air Force								
Fiscal Year	Quantity	TY \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
1998	45	21.3	--	--	21.3	--	21.3	
1999	86	27.1	--	4.2	31.3	2.0	33.3	
2000	74	19.9	--	3.1	23.0	4.3	27.3	
2001	--	--	--	21.7	21.7	6.4	28.1	
2002	--	--	--	9.7	9.7	0.5	10.2	
2003	22	9.4	--	2.7	12.1	0.1	12.2	
2004	307	73.9	--	4.3	78.2	0.3	78.5	
Subtotal	534	151.6	--	45.7	197.3	13.6	210.9	

Annual Funding - Baseline/BLU-108 3020 Procurement Missile Procurement, Air Force								
Fiscal Year	Quantity	BY 1990 \$M						
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program	
1998	45	17.4	--	--	17.4	--	17.4	
1999	86	21.9	--	3.4	25.3	1.6	26.9	
2000	74	15.9	--	2.5	18.4	3.4	21.8	
2001	--	--	--	17.1	17.1	5.1	22.2	
2002	--	--	--	7.5	7.5	0.4	7.9	
2003	22	7.2	--	2.1	9.3	0.1	9.4	
2004	307	55.6	--	3.3	58.9	0.2	59.1	
Subtotal	534	118.0	--	35.9	153.9	10.8	164.7	

Annual Funding By Appropriation - Unitary

Annual Funding - Unitary							
1319 RDT&E Research, Development, Test, and Evaluation, Navy							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1992	--	--	--	--	--	--	1.9
1993	--	--	--	--	--	--	4.6
1994	--	--	--	--	--	--	2.4
1995	--	--	--	--	--	--	10.3
1996	--	--	--	--	--	--	30.9
1997	--	--	--	--	--	--	47.0
1998	--	--	--	--	--	--	65.9
1999	--	--	--	--	--	--	39.5
2000	--	--	--	--	--	--	28.2
2001	--	--	--	--	--	--	26.7
2002	--	--	--	--	--	--	30.4
2003	--	--	--	--	--	--	16.8
2004	--	--	--	--	--	--	--
2005	--	--	--	--	--	--	10.6
2006	--	--	--	--	--	--	14.2
2007	--	--	--	--	--	--	26.8
2008	--	--	--	--	--	--	30.8
2009	--	--	--	--	--	--	21.8
2010	--	--	--	--	--	--	10.0
2011	--	--	--	--	--	--	12.6
2012	--	--	--	--	--	--	0.5
2013	--	--	--	--	--	--	0.6
2014	--	--	--	--	--	--	0.6
2015	--	--	--	--	--	--	0.6
Subtotal	--	--	--	--	--	--	433.7

Annual Funding - Unitary							
1319 RDT&E Research, Development, Test, and Evaluation, Navy							
Fiscal Year	Quantity	BY 1990 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
1992	--	--	--	--	--	--	1.7
1993	--	--	--	--	--	--	4.1
1994	--	--	--	--	--	--	2.1
1995	--	--	--	--	--	--	8.9
1996	--	--	--	--	--	--	26.2
1997	--	--	--	--	--	--	39.4
1998	--	--	--	--	--	--	54.8
1999	--	--	--	--	--	--	32.4
2000	--	--	--	--	--	--	22.8
2001	--	--	--	--	--	--	21.3
2002	--	--	--	--	--	--	24.0
2003	--	--	--	--	--	--	13.1
2004	--	--	--	--	--	--	--
2005	--	--	--	--	--	--	7.8
2006	--	--	--	--	--	--	10.2
2007	--	--	--	--	--	--	18.7
2008	--	--	--	--	--	--	21.1
2009	--	--	--	--	--	--	14.8
2010	--	--	--	--	--	--	6.7
2011	--	--	--	--	--	--	8.3
2012	--	--	--	--	--	--	0.3
2013	--	--	--	--	--	--	0.4
2014	--	--	--	--	--	--	0.4
2015	--	--	--	--	--	--	0.4
Subtotal	--	--	--	--	--	--	339.9

Annual Funding - Unitary 1507 Procurement Weapons Procurement, Navy							
Fiscal Year	Quantity	TY \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2001	--	--	--	4.5	4.5	--	4.5
2002	--	--	--	--	--	--	--
2003	42	29.4	--	5.8	35.2	--	35.2
2004	97	39.4	--	7.7	47.1	--	47.1
2005	189	66.4	--	11.9	78.3	0.3	78.6
2006	420	119.7	--	22.4	142.1	2.4	144.5
2007	388	112.0	--	11.3	123.3	1.0	124.3
2008	370	118.7	--	11.2	129.9	0.9	130.8
2009	280	122.7	--	19.2	141.9	0.6	142.5
2010	357	127.2	--	14.2	141.4	0.8	142.2
2011	333	121.2	--	9.5	130.7	0.7	131.4
2012	360	137.3	--	9.3	146.6	0.7	147.3
2013	366	142.4	--	6.9	149.3	0.8	150.1
2014	408	157.8	--	9.3	167.1	0.8	167.9
2015	412	161.0	--	8.7	169.7	0.8	170.5
2016	757	274.0	--	12.9	286.9	0.5	287.4
2017	765	282.6	--	12.4	295.0	0.5	295.5
2018	746	280.9	--	13.3	294.2	0.6	294.8
2019	710	272.7	--	12.4	285.1	0.6	285.7
Subtotal	7000	2565.4	--	202.9	2768.3	12.0	2780.3

Annual Funding - Unitary 1507 Procurement Weapons Procurement, Navy							
Fiscal Year	Quantity	BY 1990 \$M					
		End Item Recurring Flyaway	Non End Item Recurring Flyaway	Non Recurring Flyaway	Total Flyaway	Total Support	Total Program
2001	--	--	--	3.6	3.6	--	3.6
2002	--	--	--	--	--	--	--
2003	42	22.5	--	4.4	26.9	--	26.9
2004	97	29.3	--	5.7	35.0	--	35.0
2005	189	48.0	--	8.6	56.6	0.2	56.8
2006	420	84.4	--	15.8	100.2	1.7	101.9
2007	388	77.3	--	7.8	85.1	0.7	85.8
2008	370	80.8	--	7.6	88.4	0.6	89.0
2009	280	82.5	--	12.9	95.4	0.4	95.8
2010	357	84.4	--	9.4	93.8	0.5	94.3
2011	333	79.2	--	6.3	85.5	0.4	85.9
2012	360	88.2	--	6.1	94.3	0.4	94.7
2013	366	90.0	--	4.4	94.4	0.5	94.9
2014	408	98.1	--	5.7	103.8	0.5	104.3
2015	412	98.4	--	5.3	103.7	0.5	104.2
2016	757	164.6	--	7.8	172.4	0.3	172.7
2017	765	166.9	--	7.4	174.3	0.3	174.6
2018	746	163.2	--	7.7	170.9	0.3	171.2
2019	710	155.8	--	7.1	162.9	0.3	163.2
Subtotal	7000	1613.6	--	133.6	1747.2	7.6	1754.8

Low Rate Initial Production

Baseline/BLU-108

Item	Initial LRIP Decision	Current Total LRIP
Approval Date	6/23/1992	6/23/1992
Approved Quantity	291	291
Reference	Acquisition Decision Memorandum	Acquisition Decision Memorandum
Start Year	1997	1997
End Year	1999	1999

Low Rate Initial Production (LRIP) quantity of 291 (includes 280 for JSOW-A and 11 for JSOW-B) was approved at Milestone II in June 1992. This does not represent 10% or more of the planned buy quantities.

Unitary

Item	Initial LRIP Decision	Current Total LRIP
Approval Date	4/26/1995	4/26/1995
Approved Quantity	139	139
Reference	Acquisition Decision Memorandum	Acquisition Decision Memorandum
Start Year	2003	2003
End Year	2006	2006

Low Rate Initial Production (LRIP) quantities of 139 approved at Milestone II in April 1995. This does not represent 10% or more of the planned buy quantities.

Foreign Military Sales

Baseline/BLU-108

Country	Date of Sale	Quantity	Total Cost \$M	Description
Turkey	11/15/2005		4.0	USN Case TK-P-GIU - Turkey; JSOW integration on the Turkish Air Force (TuAF) General Avionics Computer based Block-40 F-16 aircraft; Total Case Value: \$4,003,331
Turkey	11/15/2005	50	25.1	USN Case TK-P-AID - Turkey; 50 AGM-154A-1; 54 AGM-154C Total Case Value: \$25,119,284

Notes

Unitary

Country	Date of Sale	Quantity	Total Cost \$M	Description
Australia	6/25/2009	55	16.6	USN Case XX-P-AYI - Australia; 55 AGM-154C-1; Total Case Value: \$16,591,575
Finland	6/5/2009	11	3.1	USN Case FI-P-LBD - Finland; 11 AGM-154C; Total Case Value \$3,112,661
Australia	3/31/2008	15	3.7	USN Case XX-P-AYI - Australia; 15 AGM-154C; Total Case Value: \$3,741,630 (per definitization mod P00026)
Greece	1/31/2007	40	15.1	USN Case GR-P-ANQ - Greece; 40 AGM-154C (Unitary) weapons; Total Case Value \$15,100,000
Greece	12/13/2005		4.7	USAF Case AR-D-SNY - Greece; Greece integration case; Total Case Value \$1,987,100,000; JSOW Case Value portion \$4,700,000.
Turkey	11/15/2005	54	25.1	USN Case TK-P-AID - Turkey; 50 AGM-154A-1; 54 AGM-154C Total Case Value: \$25,119,284
Poland	4/18/2003	80	27.4	USAF Case PL-D-SAC - Poland; 80 AGM-154C (Unitary) weapons; Total Case Value \$27,355,881; DD Form 1513, Line 007

Notes

Nuclear Costs

Baseline/BLU-108

None

Unitary

None

Unit Cost

Baseline/BLU-108

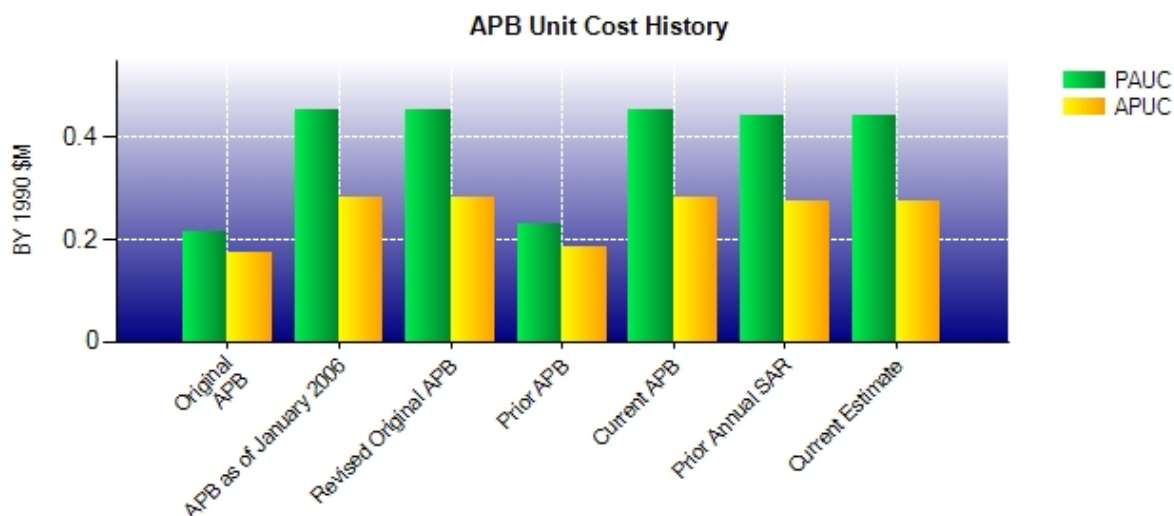
Unit Cost Report

Item	BY 1990 \$M	BY 1990 \$M	% Change
	Current UCR Baseline (Dec 2004 APB)	Current Estimate (Dec 2009 SAR)	
Program Acquisition Unit Cost			
Cost	1505.8	1478.5	
Quantity	3334	3334	
Unit Cost	0.452	0.443	-1.99
Average Procurement Unit Cost			
Cost	941.7	914.9	
Quantity	3334	3334	
Unit Cost	0.282	0.274	-2.84

Item	BY 1990 \$M	BY 1990 \$M	% Change
	Revised Original UCR Baseline (Dec 2004 APB)	Current Estimate (Dec 2009 SAR)	
Program Acquisition Unit Cost			
Cost	1505.8	1478.5	
Quantity	3334	3334	
Unit Cost	0.452	0.443	-1.99
Average Procurement Unit Cost			
Cost	941.7	914.9	
Quantity	3334	3334	
Unit Cost	0.282	0.274	-2.84

Baseline/BLU-108

Unit Cost History



Item	Date	BY 1990 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	Jun 1992	0.214	0.175	0.337	0.292
APB as of January 2006	Aug 2009	0.452	0.282	0.564	0.370
Revised Original APB	Dec 2004	0.452	0.282	0.564	0.370
Prior APB	May 2004	0.231	0.184	0.316	0.261
Current APB	Aug 2009	0.452	0.282	0.564	0.370
Prior Annual SAR	Dec 2007	0.443	0.274	0.558	0.365
Current Estimate	Dec 2009	0.443	0.274	0.559	0.366

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial PAUC Development Estimate	Changes								PAUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.340	-0.030	-0.060	0.000	0.000	0.064	0.000	-0.010	-0.036	0.304

Current SAR Baseline to Current Estimate (TY \$M)									
PAUC Production Estimate	Changes								PAUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.304	-0.012	0.204	0.117	0.031	-0.080	0.000	-0.006	0.255	0.559

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial APUC Development Estimate	Changes								APUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.290	-0.030	-0.040	0.000	0.000	0.052	0.000	-0.010	-0.028	0.262

Current SAR Baseline to Current Estimate (TY \$M)									
APUC Production Estimate	Changes								APUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.262	-0.012	0.044	0.117	0.018	-0.057	0.000	-0.006	0.104	0.366

SAR Baseline History					
Item	SAR Planning Estimate	SAR Development Estimate	SAR Production Estimate	Current Estimate	
Milestone I	Jun 1989	Jun 1989	Jun 1989	Jun 1989	
Milestone II	Mar 1991	Apr 1992	Apr 1995	Jun 1992	
Milestone III	Jun 1994	Jul 1998	Jul 1998	Oct 1998	
IOC	Sep 1995	Jul 1998	Jul 1998	Jan 1999	
Total Cost (TY \$M)	260.0	2969.2	4898.7	1862.7	
Total Quantity	N/A	8800	16124	3334	
PAUC	N/A	0.337	0.304	0.559	

Unitary

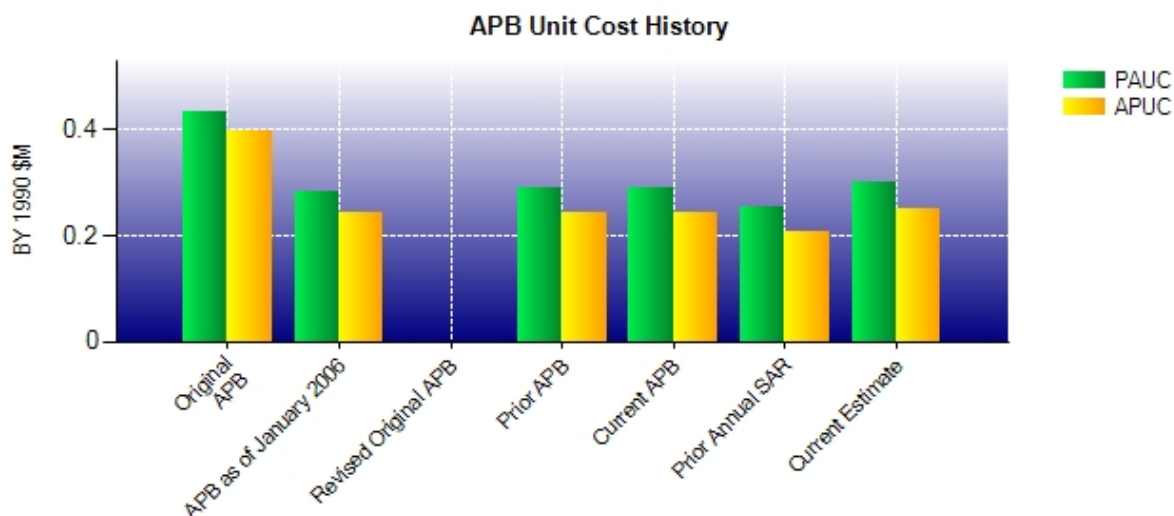
Unit Cost Report

Item	BY 1990 \$M	BY 1990 \$M	% Change
	Current UCR Baseline (Aug 2009 APB)	Current Estimate (Dec 2009 SAR)	
Program Acquisition Unit Cost			
Cost	2018.7	2094.7	
Quantity	7000	7000	
Unit Cost	0.288	0.299	+3.82
Average Procurement Unit Cost			
Cost	1695.0	1754.8	
Quantity	7000	7000	
Unit Cost	0.242	0.251	+3.72

Item	BY 1990 \$M	BY 1990 \$M	% Change
	Original UCR Baseline (Apr 1995 APB)	Current Estimate (Dec 2009 SAR)	
Program Acquisition Unit Cost			
Cost	3360.9	2094.7	
Quantity	7800	7000	
Unit Cost	0.431	0.299	-30.63
Average Procurement Unit Cost			
Cost	3103.7	1754.8	
Quantity	7800	7000	
Unit Cost	0.398	0.251	-36.93

Unitary

Unit Cost History



Item	Date	BY 1990 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	Apr 1995	0.431	0.398	0.809	0.766
APB as of January 2006	Dec 2004	0.283	0.242	0.425	0.375
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	Feb 2008	0.288	0.242	0.434	0.375
Current APB	Aug 2009	0.288	0.242	0.434	0.375
Prior Annual SAR	Dec 2007	0.254	0.208	0.389	0.331
Current Estimate	Dec 2009	0.299	0.251	0.459	0.397

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial PAUC Development Estimate	Changes								PAUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.809	-0.054	0.041	-0.014	0.098	-0.414	0.000	-0.041	-0.384	0.425

Current SAR Baseline to Current Estimate (TY \$M)									
PAUC Production Estimate	Changes								PAUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.425	0.011	0.000	0.005	0.092	-0.071	0.000	-0.002	0.034	0.459

Initial SAR Baseline to Current SAR Baseline (TY \$M)									
Initial APUC Development Estimate	Changes								APUC Production Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.766	-0.051	0.035	-0.014	0.092	-0.412	0.000	-0.041	-0.391	0.375

Current SAR Baseline to Current Estimate (TY \$M)									
APUC Production Estimate	Changes								APUC Current Estimate
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.375	0.011	0.000	0.005	0.085	-0.077	0.000	-0.002	0.022	0.397

SAR Baseline History				
Item	SAR Planning Estimate	SAR Development Estimate	SAR Production Estimate	Current Estimate
Milestone I	N/A	N/A	N/A	N/A
Milestone II	N/A	Apr 1995	Apr 1995	Apr 1995
Milestone III	N/A	Sep 2002	Dec 2004	Dec 2004
IOC	N/A	Sep 2002	Aug 2004	Feb 2005
Total Cost (TY \$M)	N/A	6307.2	2974.8	3214.0
Total Quantity	N/A	7800	7000	7000
PAUC	N/A	0.809	0.425	0.459

Cost Variance

Baseline/BLU-108

Summary TY \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Production Estimate)	645.0	4225.1	28.6	4898.7
Previous Changes				
Economic	+1.7	-32.2	--	-30.5
Quantity	--	-3204.5	--	-3204.5
Schedule	--	+379.4	+0.4	+379.8
Engineering	+44.1	+59.9	--	+104.0
Estimating	-46.6	-190.1	-29.0	-265.7
Other	--	--	--	--
Support	--	-20.2	--	-20.2
Subtotal	-0.8	-3007.7	-28.6	-3037.1
Current Changes				
Economic	-0.2	-8.2	--	-8.4
Quantity	--	--	--	--
Schedule	--	+11.2	--	+11.2
Engineering	--	--	--	--
Estimating	-0.4	-0.2	--	-0.6
Other	--	--	--	--
Support	--	-1.1	--	-1.1
Subtotal	-0.6	+1.7	--	+1.1
Total Changes	-1.4	-3006.0	-28.6	-3036.0
Current Estimate	643.6	1219.1	--	1862.7

Summary BY 1990 \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Production Estimate)	554.0	2990.5	21.8	3566.3
Previous Changes				
Economic	--	--	--	--
Quantity	--	-2059.3	--	-2059.3
Schedule	--	+2.4	--	+2.4
Engineering	+33.1	+43.5	--	+76.6
Estimating	-23.1	-52.4	-21.8	-97.3
Other	--	--	--	--
Support	--	-12.8	--	-12.8
Subtotal	+10.0	-2078.6	-21.8	-2090.4
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	+3.5	--	+3.5
Engineering	--	--	--	--
Estimating	-0.4	--	--	-0.4
Other	--	--	--	--
Support	--	-0.5	--	-0.5
Subtotal	-0.4	+3.0	--	+2.6
Total Changes	+9.6	-2075.6	-21.8	-2087.8
Current Estimate	563.6	914.9	--	1478.5

Previous Estimate: December 2007

RDT&E	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-0.2
Adjustment for current and prior escalation. (Estimating)	0.0	+0.2
Revised estimate for Baseline Development Program. (Estimating)	-0.4	-0.6
RDT&E Subtotal	-0.4	-0.6

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-8.2
Additional schedule change due to adjusting for deferred production. (Schedule)	+3.5	+5.0
Stretch-out of procurement buy profile (Navy) from FY 2014 - FY 2020 to FY 2017 - FY 2021. (Schedule)	0.0	+6.2
Adjustment for current and prior escalation. (Estimating)	0.0	-0.2
Decrease in Other Support (Navy). (Support)	-0.5	-1.1
Procurement Subtotal	+3.0	+1.7

Cost Variance

Unitary

Summary TY \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Production Estimate)	347.5	2627.3	--	2974.8
Previous Changes				
Economic	+2.9	+130.6	--	+133.5
Quantity	--	--	--	--
Schedule	--	+0.4	--	+0.4
Engineering	+22.4	+56.2	--	+78.6
Estimating	+36.6	-486.1	--	-449.5
Other	--	--	--	--
Support	--	-12.7	--	-12.7
Subtotal	+61.9	-311.6	--	-249.7
Current Changes				
Economic	-0.2	-56.0	--	-56.2
Quantity	--	--	--	--
Schedule	--	+32.8	--	+32.8
Engineering	+24.3	+540.0	--	+564.3
Estimating	+0.2	-50.3	--	-50.1
Other	--	--	--	--
Support	--	-1.9	--	-1.9
Subtotal	+24.3	+464.6	--	+488.9
Total Changes	+86.2	+153.0	--	+239.2
Current Estimate	433.7	2780.3	--	3214.0

Summary BY 1990 \$M				
Item	RDT&E	Procurement	MILCON	Total
SAR Baseline (Production Estimate)	282.8	1695.0	--	1977.8
Previous Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	+5.9	--	+5.9
Engineering	+15.1	+34.1	--	+49.2
Estimating	+25.9	-272.9	--	-247.0
Other	--	--	--	--
Support	--	-8.8	--	-8.8
Subtotal	+41.0	-241.7	--	-200.7
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	+16.0	+331.7	--	+347.7
Estimating	+0.1	-29.2	--	-29.1
Other	--	--	--	--
Support	--	-1.0	--	-1.0
Subtotal	+16.1	+301.5	--	+317.6
Total Changes	+57.1	+59.8	--	+116.9
Current Estimate	339.9	1754.8	--	2094.7

Previous Estimate: December 2007

RDT&E	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-0.2
Adjustment for current and prior escalation. (Estimating)	+0.1	+0.2
Engineering Change Proposal (ECP) to incorporate Strike Common Weapon Datalink (SCWDL) (Engineering)	+16.0	+24.3
RDT&E Subtotal	+16.1	+24.3

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-56.0
Stretch-out of procurement buy profile. (Schedule)	0.0	+32.8
Increased unit cost due to incorporation of the seeker obsolescence ECP and addition of the Strike Common Weapon Datalink (Engineering)	+293.9	+476.8
Increased cost to add survivability improvements. (Engineering)	+37.8	+63.2
Adjustment for current and prior escalation. (Estimating)	+3.6	+5.3
Reduced payload, fuze, and container estimate to reflect a change in program acquisition strategy. (Estimating)	-32.9	-53.6
Higher estimate for the seeker obsolescence engineering change proposal. (Estimating)	+12.1	+17.7
Reduced estimate to include savings of datalink procurement strategy. (Estimating)	-12.1	-19.8
Increase in Initial Spares. (Support)	+0.3	+0.4
Adjustment for current and prior escalation. (Support)	+0.1	+0.2
Decrease in Other Support. (Support)	-1.3	-2.4
Correction to align support and flyaway. (Subtotal)	0.0	0.0
(Estimating)	(+0.1)	(+0.1)
(Support)	(-0.1)	(-0.1)
Procurement Subtotal	+301.5	+464.6

Contracts

Contract Identification

Appropriation: Procurement
Contract Name: Baseline/Unitary PROD.
Contractor: Raytheon Systems
Contractor Location: Tucson, AZ 85734
Contract Number: N00019-03-C-0001
Contract Type: Firm Fixed Price (FFP)
Award Date: March 14, 2003
Definitization Date: March 14, 2003

Contract Price

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
80.9	N/A	337	575.7	N/A	2118	575.7	575.7

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this (FFP) contract.

General Contract Variance Explanation

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

Notes

The difference between the initial contract price and the current contract price is related to the addition of annual procurements for JSOW-A and JSOW-C in FY 2004, FY 2005 and FY 2006.

Quantity of 2118 includes 104 weapons for Turkey.

Contract Identification

Appropriation: RDT&E
Contract Name: AGM-154C-1 Development
Contractor: Raytheon Missile Systems
Contractor Location: Tucson, AZ 85734
Contract Number: N00019-05-G-0008
Contract Type: Cost Plus Fixed Fee (CPFF)
Award Date: March 08, 2007
Definitization Date: September 28, 2009

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
93.8	N/A	N/A	128.1	N/A	N/A	144.5	144.5

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to

Contract Variance		
Item	Cost Variance	Schedule Variance
Cumulative Variances To Date (11/22/2009)	-25.5	-7.4
Previous Cumulative Variances	-3.5	-3.7
Net Change	-22.0	-3.7

Cost and Schedule Variance Explanations

General Contract Variance Explanation

Approximately 45% of the unfavorable net changes in cost variance is due to resolution of Datalink issues, software complexity and rework. The JSOW program continues to seek out additional efficiencies and trade space to contain and minimize cost growth. Program resources are sufficient to cover most likely Estimate at Completion. The other 55% of the unfavorable net changes in cost variance is due to schedule delays that ultimately have affected cost.

The unfavorable net changes in schedule variance is due to hardware and software integration issues that are subsequently pacing system level test events. Multiple test stations and integration vehicles are being groomed in parallel to support system level tests.

Notes

This data is for Order 2002 on contract N00019-05-G-0008.

Total contract cost includes \$75.7M AGM-154C-1 development/modification and \$40.1M seeker obsolescence redesign effort. Earned Value data is being reported at the combined total level for these efforts. An Integrated Baseline Review (IBR) and six Schedule Risk Assessments (SRA) have been completed. The difference between the initial contract price and the current contract price is related to the addition of annual procurements for JSOW-A and JSOW-C in FY 2004, FY 2005 and FY 2006. The Program Manager continues to seek out efficiencies and trade space to contain cost and schedule impacts.

Contract Identification

Appropriation: Procurement
Contract Name: Unitary PROD.
Contractor: Raytheon Systems
Contractor Location: Tucson, AZ 85734
Contract Number: N00019-07-C-0093
Contract Type: Firm Fixed Price (FFP)
Award Date: January 31, 2007
Definitization Date: March 13, 2009

Contract Price							
Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
101.1	N/A	388	357.6	N/A	1243	357.6	357.6

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to

Cost and Schedule Variance Explanations

Cost and Schedule Variance reporting is not required on this (FFP) contract.

Notes

The difference between the initial contract price and the current contract price is related to the addition of annual procurements for JSOW-C in FY 2008 and the addition of annual procurements for JSOW-C and C-1 in FY 2009.

Current quantity breakdown is as follows: FY07 (USN-388, Poland-80, Greece-40); FY08 (USN-360, Australia-15, Finland-10) and FY09 (USN-280, MMRCA-4, Australia-55, Finland-11)

Deliveries and Expenditures

Baseline/BLU-108

Deliveries				
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	0	0	0	--
Production	2517	2517	3334	75.49%
Total Program Quantity Delivered	2517	2517	3334	75.49%

Expended and Appropriated (TY \$M)			
Total Acquisition Cost	1862.7	Years Appropriated	24
Expended to Date	1659.3	Percent Years Appropriated	68.57%
Percent Expended	89.08%	Appropriated to Date	1659.9
Total Funding Years	35	Percent Appropriated	89.11%

Unitary

Deliveries				
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	0	0	0	--
Production	1389	1422	7000	20.31%
Total Program Quantity Delivered	1389	1422	7000	20.31%

Expended and Appropriated (TY \$M)			
Total Acquisition Cost	3214.0	Years Appropriated	19
Expended to Date	1030.5	Percent Years Appropriated	67.86%
Percent Expended	32.06%	Appropriated to Date	1268.5
Total Funding Years	28	Percent Appropriated	39.47%

Operating and Support Cost

Baseline/BLU-108

Assumptions and Ground Rules

SOURCE: JSOW Dispenser Program Life Cycle Cost Estimate prepared to support JSOW-C Milestone-III December 15, 2004.

ASSUMPTIONS:

Estimate is based on 3,334 Baseline/BLU-108 Weapons.

There is no antecedent system.

5 JSOW surveillance firings every other year.

Deployed aboard 8 Carrier Battle Group each year - 75 JSOW per Carrier.

20 year missile life.

No additional operational/maintenance personnel at O-Level.

No additional operational/maintenance personnel at I-Level.

Contractor Depot Repair Program.

Cost Estimate Reference:

None

Sustainment Strategy:

None

Antecedent Information:

None

Unitized O&S Costs BY1990 \$M		
Cost Element	Baseline/BLU-108 Avg Annual Cost For All Weapons	No Antecedent (Antecedent) System
Mission Pay & Allowance	0.350	--
Unit Level Consumption	2.951	--
Intermediate Maintenance	0.000	--
Depot Maintenance	0.250	--
Contractor Support	0.350	--
Sustaining Support	6.468	--
Indirect	0.083	--
Other	--	--
Total	10.452	--

Unitized Cost Comments:

None

Item	Total O&S Cost \$M				
	Baseline/BLU-108			No Antecedent (Antecedent)	
	Current Production APB Objective/Threshold		Current Estimate		
Base Year	N/A	N/A	208.9	N/A	
Then Year	N/A	N/A	396.4	N/A	

Total O&S Cost Comment
None

Disposal Estimate Details

Date of Estimate:

Source of Estimate:

Disposal/Demilitarization Total Cost (BY 1990 \$M):

Unitary

Assumptions and Ground Rules

SOURCE: JSOW Unitary Program Life Cycle Cost Estimate prepared to support JSOW-C Milestone-III December 15, 2004.

ASSUMPTIONS:

Estimate is based on 7,000 Unitary Weapons.

There is no antecedent system.

Unitary will be integrated with the established Baseline program.

5 Unitary surveillance firings every other year.

Deployed aboard 6 Carrier Battle Groups each year, 25 JSOW Unitary per Carrier.

20 year missile operating life.

No additional operational/maintenance personnel at O-Level.

No additional operational/maintenance personnel at I-Level.

Contractor Depot Repair Program.

Cost Estimate Reference:

None

Sustainment Strategy:

None

Antecedent Information:

None

Unitized O&S Costs BY1990 \$M			
Cost Element	Unitary Avg Annual Cost For All Weapons	No Antecedent (Antecedent) System	
Mission Pay & Allowance	0.165		0.000
Unit Level Consumption	0.002		0.000
Intermediate Maintenance	0.000		0.000
Depot Maintenance	4.209		0.000
Contractor Support	0.772		0.000
Sustaining Support	2.277		0.000
Indirect	0.264		0.000
Other	--		--
Total	7.689		--

Unitized Cost Comments:

None

Item	Total O&S Cost \$M				
	Unitary			No Antecedent (Antecedent)	
	Current Production APB Objective/Threshold		Current Estimate		
Base Year	N/A	N/A	153.8	N/A	
Then Year	N/A	N/A	392.8	N/A	

Total O&S Cost Comment

None

Disposal Estimate Details

Date of Estimate:

Source of Estimate:

Disposal/Demilitarization Total Cost (BY 1990 \$M):