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 2016 President's Budget

Defense Acquisition Management
Information Retrieval
(DAMIR)

Table of Contents

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 - Baseline Variant and Unitary Warhead Variant (JSOW)

DoD Component

Navy

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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 Joint Standoff Weapon (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 Maritime 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/Inertial Navigation System 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 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.

JSOW-C and C-1 variants both use the Unitary lethal package, termed Bomb Royal Ordnance Augmented Charge (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 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.

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 aircraft. JSOW is a Navy-led, joint program.

Executive Summary

This is the final SAR submission for the JSOW program because future procurement has been terminated after FY 2015.

Based on the FY 2016 PB decision of the DoD that JSOW-C-1 procurement is terminated after FY 2015, the program will develop a transition plan to begin a smooth and orderly shutdown of JSOW production and transition of the program to operations and sustainment. This plan will focus on the following main areas: completion of JSOW-C-1 Operational Test, use of RDT&E and procurement dollars in FY 2016 through FY 2019 to support Captive Air Training Missiles, Telemetry Instrumentation Kits, testing and training activities, and ongoing sustainment activities to support all JSOW inventory through 2036, all of which fulfill current U.S. Navy Munitions Requirements and represent a significant value to the Government.

JSOW is in the post Milestone III production phase transitioning to sustainment, with final JSOW-A dispenser variant deliveries completed in July 2007; JSOW-C Unitary variant production completed deliveries in June 2010. JSOW-C-1 deliveries commenced October 2010 with 1,067 weapons delivered through FY 2012 (FRP-8). FY 2013 (FRP-9) and FY 2014 (FRP-10) production lots are currently on contract with an anticipated third quarter FY 2015 contract award for FY 2015 (FRP-11). The JSOW program continues to meet all CPD, KPP, Key System Attributes, and APB schedule and performance thresholds.

JSOW-C-1 is an Engineering Change Proposal modification to the JSOW-C Unitary variant. JSOW-C-1 will provide the U.S. Navy with an Anti-Surface Warfare stand-off weapon that can precisely strike Moving Maritime Targets. The JSOW-C-1 program has successfully executed Developmental Test and Integrated Test phases, scoring all direct hits, and demonstrating aimpoint accuracy for Moving Maritime Targets and retention of the Stationary Land Target capability. JSOW -C-1 will complete Operational Test in 2015 and is expected to achieve IOC in 2016 with threshold platform F/A-18E/F H10E System Configuration Set.

Due to procurement termination, the FY 2016 PB weapon production quantities were zeroed for both the JSOW Baseline/BLU-108 and JSOW-C-1 Unitary variants. This has resulted in significant and critical Nunn-McCurdy unit cost breaches. Specifically, the Baseline variant PAUC increased 20% above the current APB; the Unitary variant PAUC increased 46% and the Unitary variant APUC increased 28% above the current APB. The quantity reductions were the result of a DoD weapons/target pairing assessment that deemed that with the delivery of weapons from the FY 2015 procurement contract sufficient JSOW-C-1 assets would be in inventory to address the target set requirements allocated to the Department of the Navy rather than any program execution or cost concerns. The information required by 10 USC 2433(g) (1) (A) - (F) is included in this report. In accordance with 10 USC 2433(g)(2), the Secretary of Defense certification is not required to be submitted for termination or cancellation of a program.

A Program Deviation Report (PDR) was signed by the Program Manager on February 23, 2015. The Program Executive Officer for Strike Weapons and Unmanned Aviation endorsed and forwarded the PDR to the Milestone Decision Authority, the Assistant Secretary of the Navy for Research, Development and Acquisition, on March 3, 2015.

There are no significant software-related issues with this program at this time.

Threshold Breaches

BASELINE/BLU-108

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

Explanation of Breach

JSOW Baseline/BLU-108 unit cost breaches are the result of termination of JSOW procurement, which reduces the overall quantity by 817 weapons in comparison to the APB.

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

UNITARY

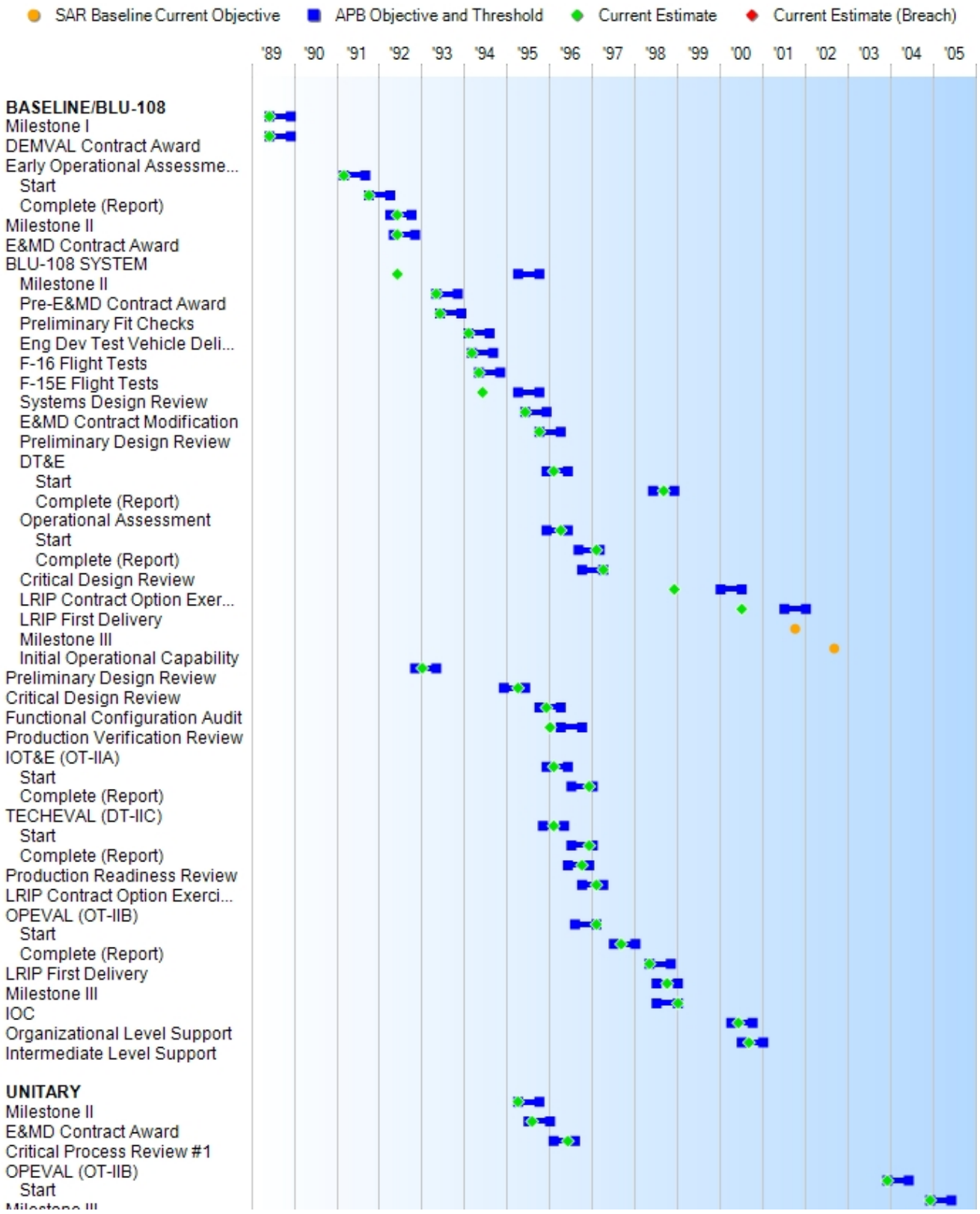
APB Breaches		
Schedule		☐
Performance		☐
Cost	RDT&E	☐
	Procurement	☐
	MILCON	☐
	Acq O&M	☐
O&S Cost		☐
Unit Cost	PAUC	☑
	APUC	☑

Explanation of Breach

JSOW Unitary unit cost breaches are the result of termination of JSOW procurement, which reduces the overall quantity by 3,815 weapons in comparison to the APB.

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

Schedule


SAR Baseline Current Objective
APB Objective and Threshold
Current Estimate
Current Estimate (Breach)
'89 '90 '91 '92 '93 '94 '95 '96 '97 '98 '99 '00 '01 '02 '03 '04 '05
BASELINE/BLU-108
Milestone I
DEMVAL Contract Award
Early Operational Assessme...
Start
Complete (Report)
Milestone II
E&MD Contract Award
BLU-108 SYSTEM
Milestone II
Pre-E&MD Contract Award
Preliminary Fit Checks
Eng Dev Test Vehicle Deli...
F-16 Flight Tests
F-15E Flight Tests
Systems Design Review
E&MD Contract Modification
Preliminary Design Review
DT&E
Start
Complete (Report)
Operational Assessment
Start
Complete (Report)
Critical Design Review
LRIP Contract Option Exer...
LRIP First Delivery
Milestone III
Initial Operational Capability
Preliminary Design Review
Critical Design Review
Functional Configuration Audit
Production Verification Review
IOT&E (OT-IIA)
Start
Complete (Report)
TECHEVAL (DT-IIC)
Start
Complete (Report)
Production Readiness Review
LRIP Contract Option Exerci...
OPEVAL (OT-IIB)
Start
Complete (Report)
LRIP First Delivery
Milestone III
IOC
Organizational Level Support
Intermediate Level Support
UNITARY
Milestone II
E&MD Contract Award
Critical Process Review #1
OPEVAL (OT-IIB)
Start

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
BLU-108 SYSTEM				
Milestone II	Apr 1995	Apr 1995	Oct 1995	Jun 1992
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
E&MD Contract Modification	Jun 1995	Jun 1995	Dec 1995	Jun 1995
Preliminary Design Review	Oct 1995	Oct 1995	Apr 1996	Oct 1995
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
Critical Design Review	Oct 1996	Oct 1996	Apr 1997	Apr 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
Preliminary Design Review	Nov 1992	Nov 1992	May 1993	Jan 1993
Critical Design Review	Dec 1994	Dec 1994	Jun 1995	Apr 1995
Functional Configuration Audit	Oct 1995	Oct 1995	Apr 1996	Dec 1995
Production Verification Review	Apr 1996	Apr 1996	Oct 1996	Jan 1996
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
Production Readiness Review	Jun 1996	Jun 1996	Dec 1996	Oct 1996
LRIP Contract Option Exercised	Oct 1996	Oct 1996	Apr 1997	Feb 1997
OPEVAL (OT-IIB)				
Start	Aug 1996	Aug 1996	Feb 1997	Feb 1997
Complete (Report)	Jul 1997	Jul 1997	Jan 1998	Sep 1997
LRIP First Delivery	May 1998	May 1998	Nov 1998	May 1998
Milestone III	Jul 1998	Jul 1998	Jan 1999	Oct 1998
IOC	Jul 1998	Jul 1998	Jan 1999	Jan 1999
Organizational Level Support	Apr 2000	Apr 2000	Oct 2000	Jun 2000
Intermediate Level Support	Jul 2000	Jul 2000	Jan 2001	Sep 2000

Change Explanations

None

Acronyms and Abbreviations

DEMVAL - Demonstration and Validation
DEV - Development
DT - Developmental Test
DT&E - Developmental Test and Evaluation
E&MD - Engineering and Manufacturing Development
IOT&E - Initial Operational Test and Evaluation
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
IOC	Aug 2004	Aug 2004	Feb 2005	Feb 2005

Change Explanations

None

Acronyms and Abbreviations

E&MD - Engineering and Manufacturing Development
OPEVAL - Operational Evaluation
OT - Operational Test

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)
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 (500 ft MSL, .8 IMN)	>or=15 (200 ft MSL, .8 IMN)
High (nm @ 30K ft MSL, .8 IMN)				
>50	>50	>40	50	>50

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

Acronyms and Abbreviations

ft - feet
IAW - In Accordance With
IMN - Indicated Mach Number
K - Thousand
MSL - Mean Sea Level
nm - Nautical Miles
Spec - Specification
Sys - System

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	
Accuracy (CEP)				
Weapon (ft)				
10	10	10	4.49	4.49
Weapon (Air Vehicle) (ft)				
70	70	91	35.4	35.4
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 nm (500 ft MSL, 0.8 IMN)	12 nm (500 ft MSL, 0.8 IMN)
High (nm @ 30K ft MSL, .8 IMN)				
>50	>50	>40	50 nm (25K ft MSL, 0.8 IMN)	50 nm (25K ft MSL, 0.8 IMN)
Accuracy, (SEP) Weapon (ft)				
N/A	10	20	2.2 ft (DT1) 3.6 ft (DT2) 2.2 ft (IT1) 15.5 ft (IT2)	13 ft SEP (Based on Simulation Data)
Weapon Data Link				
N/A	3rd Party compatible waveform	IFTU from F/A-18 E/F	Demonstrated IFTU capability with F/A-18E/F during developmental and integration testing. 3rd Party compatible waveform demonstrated with the LSRS platform during the Joint Capability Test Demonstration. Confirmed during Trident Warrior 2013 testing with E2D.	Demonstrated IFTU capability with F/A-18E/F during developmental and integration testing. 3rd Party compatible waveform demonstrated with the LSRS platform during the Joint Capability Test Demonstration. Confirmed during Trident Warrior 2013 testing with E2D.
Material Availability (Sustainment)				
N/A	>or=.95	>or=.95	99.5	99.5
Net-Ready KPP				
N/A	Std Definition	Std Definition	Compliant by design. Received NMSC Stage 4. Received Navy SPAWAR certification for use with F/A-18E/F H10E SCS.	Compliant by design. Received NMSC Stage 4. Navy SPAWAR and Joint Interoperability Certification testing is scheduled to complete with F/A-18E/F H10E SCS.

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

Acronyms and Abbreviations

CEP - Circular Error Probable
DT - Developmental Test
ft - Feet
IAW - In Accordance With
IFTU - In-Flight Target Update
IMN - Indicated Mach Number
IT - Integration Test
K - Thousand
KPP - Key Performance Parameter
LSRS - Littoral Surveillance Radar System
MSL - Mean Sea Level
nm - nautical mile
NMSC - Navy-Marine Corps Spectrum Center
SCS - System Configuration Set
SEP - Spherical Error Probable
SPAWAR - Space & Naval Warfare Systems Command
Spec - Specification
Std - Standard
Sys - System

Track to Budget

BASELINE/BLU-108

RDT&E

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

Procurement

Appn		BA	PE		
Navy	1507	02	0204162N		
	Line Item		**Name**		
	2230		JSOW		(Sunk)
Navy	1507	06	0204162N		
	Line Item		**Name**		
	6120		Spares and Repair Parts	(Shared)	(Sunk)
Air Force	3020	02	0207324F		
	Line Item		**Name**		
	JSOW		JSOW Missile Procurement Air Force	(Shared)	(Sunk)

UNITARY

RDT&E

Appn		BA	PE	
Navy	1319	05	0604727N	
	Project		**Name**	
	2068		Joint Standoff Weapon (Navy)	

Procurement

Appn		BA	PE	
Navy	1507	02	0204162N	
	Line Item		**Name**	
	2230		JSOW	
Navy	1507	06	0204162N	
	Line Item		**Name**	
	6120		Spares and Repair Parts	(Shared)

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	--	915.7	992.5	1052.9	1097.6
Procurement	4685.5	2636.7	--	1784.8	6852.4	3862.5	2502.1
Flyaway	--	--	--	1750.6	--	--	2454.9
Recurring	--	--	--	1445.4	--	--	2034.2
Non Recurring	--	--	--	305.2	--	--	420.7
Support	--	--	--	34.2	--	--	47.2
Other Support	--	--	--	31.1	--	--	42.5
Initial Spares	--	--	--	3.1	--	--	4.7
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	2700.5	7873.5	4915.4	3599.7

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	799.3	4225.1	1235.2	1016.3
Flyaway	--	--	--	778.2	--	--	989.8
Recurring	--	--	--	614.7	--	--	784.4
Non Recurring	--	--	--	163.5	--	--	205.4
Support	--	--	--	21.1	--	--	26.5
Other Support	--	--	--	20.3	--	--	25.4
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	1362.9	4898.7	1878.8	1659.9

Total Quantity - BASELINE/BLU-108			
Quantity	SAR Baseline Production Estimate	Current APB Production	Current Estimate
RDT&E	0	0	0
Procurement	16124	3334	2517
Total	16124	3334	2517

Quantity Notes

Current APB: 3,334 procurement missiles include 2,800 Navy Baselines, 523 Air Force Baselines, and 11 Air Force BLU-108s.

Current Estimate: 2,517 procurement missiles include 1,983 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	352.1	347.5	409.3	454.0
Procurement	1695.0	1695.0	1864.5	985.5	2627.3	2627.3	1485.8
Flyaway	--	--	--	972.4	--	--	1465.1
Recurring	--	--	--	830.7	--	--	1249.8
Non Recurring	--	--	--	141.7	--	--	215.3
Support	--	--	--	13.1	--	--	20.7
Other Support	--	--	--	10.8	--	--	17.1
Initial Spares	--	--	--	2.3	--	--	3.6
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	1337.6	2974.8	3036.6	1939.8

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	3185
Total	7000	7000	3185

Cost and Funding

Funding Summary - Total Program

Appropriation Summary									
FY 2016 President's Budget / December 2014 SAR (TY$ M)									
Appropriation	Prior	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
RDT&E	1087.2	4.4	0.4	0.4	0.4	0.4	0.5	3.9	1097.6
Procurement	2361.6	108.7	21.4	2.8	6.4	1.2	0.0	0.0	2502.1
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 2016 Total	3448.8	113.1	21.8	3.2	6.8	1.6	0.5	3.9	3599.7
PB 2015 Total	3449.3	135.4	160.6	0.6	0.6	0.6	209.5	1493.1	5449.7
Delta	-0.5	-22.3	-138.8	2.6	6.2	1.0	-209.0	-1489.2	-1850.0

Cost and Funding

Funding Summary - BASELINE/BLU-108

Appropriation Summary									
FY 2016 President's Budget / December 2014 SAR (TY$ M)									
Appropriation	Prior	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	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	0.0	1016.3
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 2016 Total	1659.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1659.9
PB 2015 Total	1659.9	0.0	0.0	0.0	0.0	0.0	0.0	213.7	1873.6
Delta	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-213.7	-213.7

Quantity Summary										
FY 2016 President's Budget / December 2014 SAR (TY$ M)										
Quantity	Undistributed	Prior	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	2517	0	0	0	0	0	0	0	2517
PB 2016 Total	0	2517	0	0	0	0	0	0	0	2517
PB 2015 Total	0	2517	0	0	0	0	0	0	817	3334
Delta	0	0	0	0	0	0	0	0	-817	-817

Funding Summary - UNITARY

Appropriation Summary FY 2016 President's Budget / December 2014 SAR (TY$ M)									
Appropriation	Prior	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
RDT&E	443.6	4.4	0.4	0.4	0.4	0.4	0.5	3.9	454.0
Procurement	1345.3	108.7	21.4	2.8	6.4	1.2	0.0	0.0	1485.8
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 2016 Total	1788.9	113.1	21.8	3.2	6.8	1.6	0.5	3.9	1939.8
PB 2015 Total	1789.4	135.4	160.6	0.6	0.6	0.6	209.5	1279.4	3576.1
Delta	-0.5	-22.3	-138.8	2.6	6.2	1.0	-209.0	-1275.5	-1636.3

Funding Notes

JSOW FY 2016 PB profile reflects JSOW production termination after FY 2015.

Quantity Summary FY 2016 President's Budget / December 2014 SAR (TY$ M)										
Quantity	Undistributed	Prior	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	2985	200	0	0	0	0	0	0	3185
PB 2016 Total	0	2985	200	0	0	0	0	0	0	3185
PB 2015 Total	0	2985	200	200	0	0	0	517	3098	7000
Delta	0	0	0	-200	0	0	0	-517	-3098	-3815

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
Subtotal	1983	632.8	--	159.7	792.5	12.9	805.4

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
Subtotal	1983	496.7	--	127.6	624.3	10.3	634.6

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	--	--	--	--	--	--	11.6
2011	--	--	--	--	--	--	11.6
2012	--	--	--	--	--	--	6.8
2013	--	--	--	--	--	--	4.4
2014	--	--	--	--	--	--	0.4
2015	--	--	--	--	--	--	4.4
2016	--	--	--	--	--	--	0.4
2017	--	--	--	--	--	--	0.4
2018	--	--	--	--	--	--	0.4
2019	--	--	--	--	--	--	0.4
2020	--	--	--	--	--	--	0.5
2021	--	--	--	--	--	--	0.5
2022	--	--	--	--	--	--	0.5
2023	--	--	--	--	--	--	0.5
2024	--	--	--	--	--	--	0.5
2025	--	--	--	--	--	--	0.5
2026	--	--	--	--	--	--	0.5
2027	--	--	--	--	--	--	0.5
2028	--	--	--	--	--	--	0.4
Subtotal	--	--	--	--	--	--	454.0

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	--	--	--	--	--	--	7.7
2011	--	--	--	--	--	--	7.6
2012	--	--	--	--	--	--	4.4
2013	--	--	--	--	--	--	2.8
2014	--	--	--	--	--	--	0.3
2015	--	--	--	--	--	--	2.7
2016	--	--	--	--	--	--	0.2
2017	--	--	--	--	--	--	0.2
2018	--	--	--	--	--	--	0.2
2019	--	--	--	--	--	--	0.2
2020	--	--	--	--	--	--	0.3
2021	--	--	--	--	--	--	0.3
2022	--	--	--	--	--	--	0.3
2023	--	--	--	--	--	--	0.3
2024	--	--	--	--	--	--	0.3
2025	--	--	--	--	--	--	0.3
2026	--	--	--	--	--	--	0.2
2027	--	--	--	--	--	--	0.2
2028	--	--	--	--	--	--	0.2
Subtotal	--	--	--	--	--	--	352.1

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	29.1	--	5.8	34.9	--	34.9
2004	97	39.4	--	7.7	47.1	--	47.1
2005	189	66.4	--	11.9	78.3	0.3	78.6
2006	420	119.6	--	22.4	142.0	2.4	144.4
2007	388	112.0	--	11.3	123.3	1.0	124.3
2008	370	117.2	--	11.2	128.4	0.9	129.3
2009	281	124.1	--	19.2	143.3	0.6	143.9
2010	313	125.9	--	15.4	141.3	0.7	142.0
2011	225	117.1	--	10.3	127.4	0.8	128.2
2012	246	118.6	--	9.9	128.5	0.7	129.2
2013	202	94.3	--	25.0	119.3	0.7	120.0
2014	212	97.5	--	13.6	111.1	7.8	118.9
2015	200	88.6	--	17.1	105.7	3.0	108.7
2016	--	--	--	19.6	19.6	1.8	21.4
2017	--	--	--	2.8	2.8	--	2.8
2018	--	--	--	6.4	6.4	--	6.4
2019	--	--	--	1.2	1.2	--	1.2
Subtotal	3185	1249.8	--	215.3	1465.1	20.7	1485.8

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	22.3	--	4.4	26.7	--	26.7
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	--	15.7	100.1	1.7	101.8
2007	388	77.3	--	7.8	85.1	0.7	85.8
2008	370	79.6	--	7.7	87.3	0.6	87.9
2009	281	83.1	--	12.9	96.0	0.4	96.4
2010	313	82.9	--	10.1	93.0	0.5	93.5
2011	225	75.6	--	6.7	82.3	0.5	82.8
2012	246	75.4	--	6.4	81.8	0.4	82.2
2013	202	59.0	--	15.7	74.7	0.4	75.1
2014	212	60.1	--	8.4	68.5	4.8	73.3
2015	200	53.7	--	10.4	64.1	1.8	65.9
2016	--	--	--	11.6	11.6	1.1	12.7
2017	--	--	--	1.6	1.6	--	1.6
2018	--	--	--	3.7	3.7	--	3.7
2019	--	--	--	0.7	0.7	--	0.7
Subtotal	3185	830.7	--	141.7	972.4	13.1	985.5

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	Milestone II ADM	Milestone II ADM
Start Year	1997	1997
End Year	1999	1999

LRIP quantity of 291 (includes 280 for JSOW-A and 11 for JSOW-B) was approved at Milestone II in June 1992.

UNITARY

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

LRIP quantities of 139 approved at Milestone II in April 1995.

Foreign Military Sales

BASELINE/BLU-108

Country	Date of Sale	Quantity	Total Cost $M	Description
Turkey	11/15/2005	50	26.4	U.S. Navy Case - Turkey; 50 AGM-154A-1; 54 AGM-154C Total Case Value: $26,422,774.00
Turkey	11/15/2005	0	4.9	U.S. Navy Case - Turkey; JSOW integration on the Turkish Air Force General Avionics Computer based Block-40 F-16 aircraft; Total Case Value: $4,955,940.00

Notes

UNITARY

Country	Date of Sale	Quantity	Total Cost $M	Description
Australia	6/25/2009		29.9	U.S. Navy Case - Australia; Total Case Value: $29,853,224.00
Finland	6/5/2009	11	8.9	U.S. Navy Case - Finland; 11 AGM-154C; Total Case Value $8,897,122.95
Australia	3/31/2008		15.7	U.S. Navy Case - Australia; Total Case Value: $15,687,401.00
Greece	1/31/2007	40	13.3	U.S. Navy Case - Greece; 40 AGM-154C; Total Case Value $13,294,755.14
Greece	12/13/2005	0	3.2	U.S. Air Force Case - Greece; Greece integration case; Total Case Value $1,932,022,845.00; JSOW Case Value portion $3,178,646.59
Turkey	11/15/2005	54	26.4	U.S. Navy Case - Turkey; 50 AGM-154A-1; 54 AGM-154C Total Case Value: $26,442,774.00
Poland	4/18/2003	80	27.4	U.S. Air Force Case - Poland; 80 AGM-154C; Total Case Value $27,428,861.80

Notes

Total cost dollars may increase or decrease based on scope changes in follow-on support work.

Nuclear Costs

BASELINE/BLU-108

None

UNITARY

None

Unit Cost

BASELINE/BLU-108

Unit Cost Report

Item	BY 1990 $M Current UCR Baseline (Dec 2004 APB)	BY 1990 $M Current Estimate (Dec 2014 SAR)	% Change
Program Acquisition Unit Cost			
Cost	1505.8	1362.9	
Quantity	3334	2517	
Item	0.452	0.541	**+19.69**[1]
Average Procurement Unit Cost			
Cost	941.7	799.3	
Quantity	3334	2517	
Unit Cost	0.282	0.318	+12.77

Item	BY 1990 $M Revised Original UCR Baseline (Dec 2004 APB)	BY 1990 $M Current Estimate (Dec 2014 SAR)	% Change
Program Acquisition Unit Cost			
Cost	1505.8	1362.9	
Quantity	3334	2517	
Unit Cost	0.452	0.541	+19.69
Average Procurement Unit Cost			
Cost	941.7	799.3	
Quantity	3334	2517	
Unit Cost	0.282	0.318	+12.77

Unit Cost	TY $M Current UCR Baseline (Dec 2004 APB)	TY $M Current Estimate (Dec 2014 SAR)	TY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	1878.8	1659.9	
Unit Cost	0.564	0.659	+16.84
Average Procurement Unit Cost (APUC)			
Cost	1235.2	1016.3	
Unit Cost	0.370	0.404	+9.19

Unit Cost	TY $M		TY % Change
	Revised Original UCR Baseline (Dec 2004 APB)	Current Estimate (Dec 2014 SAR)	
Program Acquisition Unit Cost (PAUC)			
Cost	1878.8	1659.9	
Unit Cost	0.564	0.659	+16.84
Average Procurement Unit Cost (APUC)			
Cost	1235.2	1016.3	
Unit Cost	0.370	0.404	+9.19

[1] *Nunn-McCurdy Breach*

JSOW Baseline/BLU-108 unit cost breaches are the result of the termination of JSOW procurement, which reduces the overall quantity by 817 weapons in comparison to the APB.

Unit Cost Breach Data		
Changes From Previous SAR	$M/Qty.	Percent
PAUC (BY $M)	0.100	+22.68
APUC (BY $M)	0.046	+16.91
PAUC Quantity	-817	0.00
PAUC (TY $M)	0.097	+17.26
APUC (TY $M)	0.035	+9.49

Initial SAR Information - Dec 1997	BY1990 $M	TY $M
Program Acquisition Cost	0.5	0.7

Unit Cost PAUC Changes

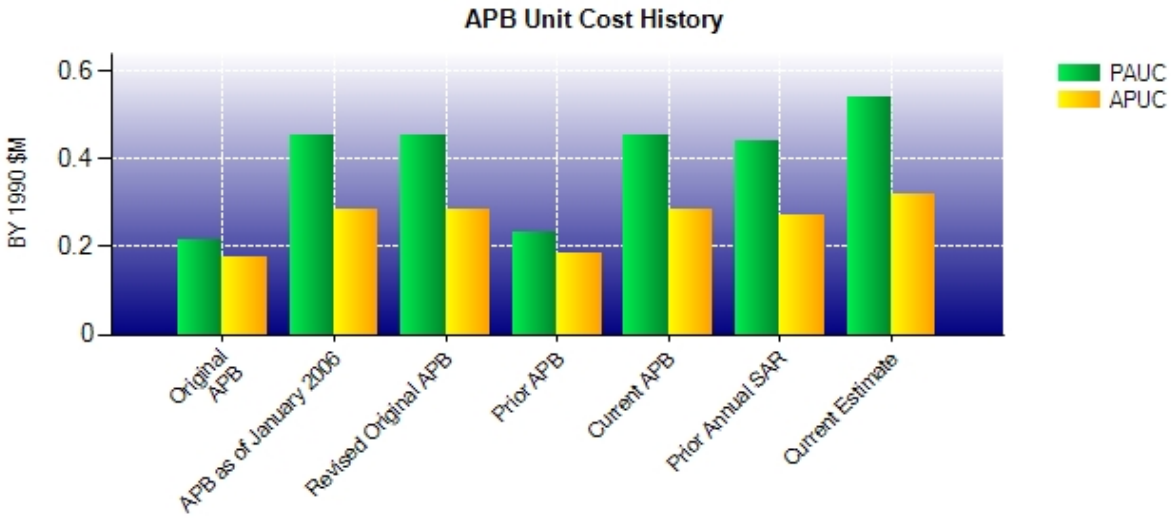
JSOW Baseline/BLU-108 unit cost breaches are the result of the termination of JSOW procurement, which reduces the overall quantity by 817 weapons in comparison to the APB.

Unit Cost APUC Changes

JSOW Baseline/BLU-108 unit cost breaches are the result of the termination of JSOW procurement, which reduces the overall quantity by 817 weapons in comparison to the APB.

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 2013	0.441	0.272	0.562	0.369
Current Estimate	Dec 2014	0.541	0.318	0.659	0.404

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	-0.013	0.255	0.166	0.041	-0.085	0.000	-0.009	0.355	0.659

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	-0.014	0.030	0.166	0.024	-0.055	0.000	-0.009	0.142	0.404

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	Oct 2001	Oct 1998
IOC	Sep 1995	Jul 1998	Sep 2002	Jan 1999
Total Cost (TY $M)	260.0	2969.2	4898.7	1659.9
Total Quantity	N/A	8800	16124	2517
PAUC	N/A	0.337	0.304	0.659

UNITARY

Unit Cost Report

Item	BY 1990 $M Current UCR Baseline (Aug 2009 APB)	BY 1990 $M Current Estimate (Dec 2014 SAR)	% Change
Program Acquisition Unit Cost			
Cost	2018.7	1337.6	
Quantity	7000	3185	
Item	0.288	0.420	**+45.83**[1]
Average Procurement Unit Cost			
Cost	1695.0	985.5	
Quantity	7000	3185	
Unit Cost	0.242	0.309	**+27.69**[1]

Item	BY 1990 $M Original UCR Baseline (Apr 1995 APB)	BY 1990 $M Current Estimate (Dec 2014 SAR)	% Change
Program Acquisition Unit Cost			
Cost	3360.9	1337.6	
Quantity	7800	3185	
Unit Cost	0.431	0.420	-2.55
Average Procurement Unit Cost			
Cost	3103.7	985.5	
Quantity	7800	3185	
Unit Cost	0.398	0.309	-22.36

Unit Cost	TY $M Current UCR Baseline (Aug 2009 APB)	TY $M Current Estimate (Dec 2014 SAR)	TY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	3036.6	1939.8	
Unit Cost	0.434	0.609	+40.32
Average Procurement Unit Cost (APUC)			
Cost	2627.3	1485.8	
Unit Cost	0.375	0.466	+24.27

Unit Cost	TY $M		TY % Change
	Original UCR Baseline (Apr 1995 APB)	Current Estimate (Dec 2014 SAR)	
Program Acquisition Unit Cost (PAUC)			
Cost	6307.2	1939.8	
Unit Cost	0.809	0.609	-24.72
Average Procurement Unit Cost (APUC)			
Cost	5970.9	1485.8	
Unit Cost	0.766	0.466	-39.16

[1] *Nunn-McCurdy Breach*

JSOW Unitary unit cost breaches are the result of the termination of JSOW procurement, which reduces the overall quantity by 3,815 weapons in comparison to the APB.

Unit Cost Breach Data		
Changes From Previous SAR	$M/Qty.	Percent
PAUC (BY $M)	0.107	+34.19
APUC (BY $M)	0.047	+17.94
PAUC Quantity	-3815	0.00
PAUC (TY $M)	0.098	+19.18
APUC (TY $M)	0.020	+4.48

Initial SAR Information - Dec 1997	BY1990 $M	TY $M
Program Acquisition Cost	0.4	0.6

Unit Cost PAUC Changes

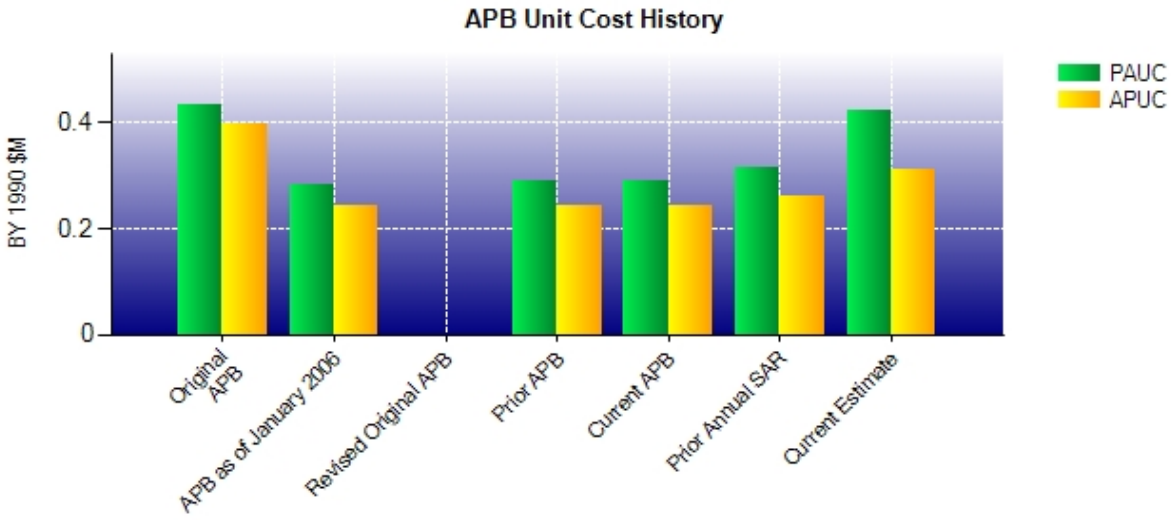
JSOW Unitary unit cost breaches are the result of the termination of JSOW procurement, which reduces the overall quantity by 3,815 weapons in comparison to the APB.

Unit Cost APUC Changes

JSOW Unitary unit cost breaches are the result of the termination of JSOW procurement, which reduces the overall quantity by 3,815 weapons in comparison to the APB.

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 2013	0.313	0.262	0.511	0.446
Current Estimate	Dec 2014	0.420	0.309	0.609	0.466

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	0.034	0.054	0.069	0.154	-0.125	0.000	-0.002	0.184	0.609

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	0.034	-0.008	0.067	0.140	-0.140	0.000	-0.002	0.091	0.466

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	1939.8
Total Quantity	N/A	7800	7000	3185
PAUC	N/A	0.809	0.425	0.609

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	+1.5	-33.4	--	-31.9
Quantity	--	-3204.5	--	-3204.5
Schedule	--	+417.2	+0.4	+417.6
Engineering	+44.1	+59.9	--	+104.0
Estimating	-47.0	-213.0	-29.0	-289.0
Other	--	--	--	--
Support	--	-21.3	--	-21.3
Subtotal	-1.4	-2995.1	-28.6	-3025.1
Current Changes				
Economic	--	-1.8	--	-1.8
Quantity	--	-285.7	--	-285.7
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	--	+74.6	--	+74.6
Other	--	--	--	--
Support	--	-0.8	--	-0.8
Subtotal	--	-213.7	--	-213.7
Total Changes	-1.4	-3208.8	-28.6	-3238.8
CE - Cost Variance	643.6	1016.3	--	1659.9
CE - Cost & Funding	643.6	1016.3	--	1659.9

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	--	+8.4	--	+8.4
Engineering	+33.1	+43.5	--	+76.6
Estimating	-23.5	-61.4	-21.8	-106.7
Other	--	--	--	--
Support	--	-13.6	--	-13.6
Subtotal	+9.6	-2082.4	-21.8	-2094.6
Current Changes				
Economic	--	--	--	--
Quantity	--	-146.7	--	-146.7
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	--	+38.3	--	+38.3
Other	--	--	--	--
Support	--	-0.4	--	-0.4
Subtotal	--	-108.8	--	-108.8
Total Changes	+9.6	-2191.2	-21.8	-2203.4
CE - Cost Variance	563.6	799.3	--	1362.9
CE - Cost & Funding	563.6	799.3	--	1362.9

Previous Estimate: December 2013

Procurement	$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-1.8
Quantity variance resulting from a decrease of 817 JSOW Baseline units from 2,800 to 1,983 (Navy). (Quantity)	-146.7	-285.7
Adjustment to zero out remaining JSOW Baseline units and cost as the result of JSOW production termination. (Estimating) (QR)	+38.3	+74.6
Adjustment to zero out remaining JSOW Integrated Logistic Support as the result of JSOW production termination. (Support) (QR)	-0.4	-0.8
Procurement Subtotal	-108.8	-213.7

(QR) Quantity Related

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	+3.5	+122.4	--	+125.9
Quantity	--	--	--	--
Schedule	+7.5	+294.5	--	+302.0
Engineering	+46.7	+616.0	--	+662.7
Estimating	+48.9	-564.9	--	-516.0
Other	--	--	--	--
Support	--	+26.7	--	+26.7
Subtotal	+106.6	+494.7	--	+601.3
Current Changes				
Economic	-0.4	-15.7	--	-16.1
Quantity	--	-1453.2	--	-1453.2
Schedule	--	-81.6	--	-81.6
Engineering	--	-170.8	--	-170.8
Estimating	+0.3	+117.5	--	+117.8
Other	--	--	--	--
Support	--	-32.4	--	-32.4
Subtotal	-0.1	-1636.2	--	-1636.3
Total Changes	+106.5	-1141.5	--	-1035.0
CE - Cost Variance	454.0	1485.8	--	1939.8
CE - Cost & Funding	454.0	1485.8	--	1939.8

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	+4.9	+61.0	--	+65.9
Engineering	+31.1	+378.0	--	+409.1
Estimating	+33.3	-311.6	--	-278.3
Other	--	--	--	--
Support	--	+14.4	--	+14.4
Subtotal	+69.3	+141.8	--	+211.1
Current Changes				
Economic	--	--	--	--
Quantity	--	-759.1	--	-759.1
Schedule	--	-42.5	--	-42.5
Engineering	--	-89.1	--	-89.1
Estimating	--	+58.1	--	+58.1
Other	--	--	--	--
Support	--	-18.7	--	-18.7
Subtotal	--	-851.3	--	-851.3
Total Changes	+69.3	-709.5	--	-640.2
CE - Cost Variance	352.1	985.5	--	1337.6
CE - Cost & Funding	352.1	985.5	--	1337.6

Previous Estimate: December 2013

RDT&E	$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-0.4
Adjustment for current and prior escalation. (Estimating)	+0.1	+0.2
Revised estimate due to reprogramming of funds in FY 2013 to support other Department of the Navy activities. (Estimating)	-0.6	-1.1
Revised estimate to allow JSOW Unitary to increase future capabilities while entering program sustainment. (Estimating)	+0.5	+1.2
RDT&E Subtotal	0.0	-0.1

Procurement	$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-15.7
Adjustment for current and prior escalation. (Estimating)	+1.1	+1.8
Quantity variance resulting from a decrease of 3,815 JSOW Unitary weapons from 7,000 to 3,185. (Subtotal)	-846.7	-1621.1
Quantity variance resulting from a decrease of 3,815 JSOW Untiary weapons from 7,000 to 3,185. (Quantity)	(-759.1)	(-1453.2)
Allocation to Schedule resulting from Quantity change. (Schedule) (QR)	(-42.5)	(-81.6)
Allocation to Engineering resulting from Quantity change. (Engineering) (QR)	(-89.1)	(-170.8)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(+44.0)	(+84.5)
Adjustment to account for zeroing out JSOW Unitary weapons after FY 2015 as a result of JSOW production termination. (Estimating) (QR)	+20.6	+43.1
Revised estimate due to identifying an organic solution for telemetry instrumentation kits. (Estimating)	-8.5	-13.8
Revised estimate to account for production shutdown costs as the result of JSOW production deferral. (Estimating)	+9.5	+16.0
Revised estimate to remove additional Operational Flight Program software work from Command & Launch. (Estimating)	-3.8	-6.2
Revised estimate to account for anticipated FMS synergies in FY 2015. (Estimating)	-4.6	-7.6
Revised estimate to account for prior year actuals. (Estimating)	-0.2	-0.3
Revised Captive AIR Training Missile estimate due to reduced quantity and supplying of Government Furnished Equipment. (Support)	-18.2	-31.1
Decrease in Initial Spares. (Support)	-0.5	-1.3
Procurement Subtotal	-851.3	-1636.2

(QR) Quantity Related

Contracts

Contract Identification

Appropriation: Procurement
Contract Name: AGM-154C-1 FY 2011/2012 Production
Contractor: Raytheon Company
Contractor Location: 1151 E Hermans Road
Tucson, AZ 85706
Contract Number: N00019-11-C-0032
Contract Type: Firm Fixed Price (FFP)
Award Date: July 28, 2011
Definitization Date: July 28, 2011

Contract Price							
Initial Contract Price ($M)			Current Contract Price ($M)			Estimated Price At Completion ($M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
85.6	N/A	225	180.5	N/A	473	180.5	180.5

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the exercise of the FY 2012 production option.

Cost and Schedule Variance Explanations

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

Notes

This contract is more than 90% complete; therefore, this is the final report for this contract.

Contract Identification

Appropriation: Procurement

Contract Name: AGM-154C-1 FY 2013/2014 Production

Contractor: Raytheon Company

Contractor Location: 1151 E Hermans Road
Tucson, AZ 85706

Contract Number: N00019-13-C-0011

Contract Type: Firm Fixed Price (FFP)

Award Date: June 05, 2013

Definitization Date: June 05, 2013

Contract Price							
Initial Contract Price ($M)			Current Contract Price ($M)			Estimated Price At Completion ($M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
80.5	N/A	200	164.3	N/A	412	164.3	164.3

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the exercise of the FY 2014 production option.

Cost and Schedule Variance Explanations

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

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	2517	100.00%
Total Program Quantity Delivered	2517	2517	2517	100.00%

Expended and Appropriated (TY $M)			
Total Acquisition Cost	1659.9	Years Appropriated	19
Expended to Date	1659.9	Percent Years Appropriated	100.00%
Percent Expended	100.00%	Appropriated to Date	1659.9
Total Funding Years	19	Percent Appropriated	100.00%

The above data is current as of February 28, 2015.

UNITARY

Deliveries				
Delivered to Date	Planned to Date	Actual to Date	Total Quantity	Percent Delivered
Development	0	0	0	--
Production	2615	2615	3185	82.10%
Total Program Quantity Delivered	2615	2615	3185	82.10%

Expended and Appropriated (TY $M)			
Total Acquisition Cost	1939.8	Years Appropriated	24
Expended to Date	1584.5	Percent Years Appropriated	64.86%
Percent Expended	81.68%	Appropriated to Date	1902.0
Total Funding Years	37	Percent Appropriated	98.05%

The above data is current as of February 28, 2015.

Operating and Support Cost

BASELINE/BLU-108

Cost Estimate Details

Date of Estimate: January 29, 2015
Source of Estimate: POE
Quantity to Sustain: 2517
Unit of Measure: Total Quantity
Service Life per Unit: 20.00 Years
Fiscal Years in Service: FY 1998 - FY 2018

- Estimate is based on JSOW production termination after FY 2015.
- No additional Unit Operations, Unit-Level Manpower, or Indirect Support were required with the release of the JSOW Baseline variant.

Sustainment Strategy

- Single-tier maintenance approach (Depot Level) at contractor facility.
- No warranty.

Antecedent Information

No Antecedent

Annual O&S Costs BY1990 $M		
Cost Element	**BASELINE/BLU-108 Average Annual Cost Per Total Quantity**	**No Antecedent (Antecedent)**
Unit-Level Manpower	0.000	--
Unit Operations	0.000	--
Maintenance	0.470	--
Sustaining Support	0.492	--
Continuing System Improvements	0.000	--
Indirect Support	0.000	--
Other	0.000	--
Total	0.962	--

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	20.2	N/A
Then Year	N/A	N/A	31.1	N/A

Equation to Translate Annual Cost to Total Cost

21 Years * .962M Average Annual Cost = $20.2M

O&S Cost Variance		
Category	**BY 1990 $M**	**Change Explanations**
Prior SAR Total O&S Estimates - Dec 2013 SAR	146.9	
Programmatic/Planning Factors	-126.7	Revised estimate to account for termination of the JSOW Baseline/BLU-108 production program.
Cost Estimating Methodology	0.0	
Cost Data Update	0.0	
Labor Rate	0.0	
Energy Rate	0.0	
Technical Input	0.0	
Other	0.0	
Total Changes	-126.7	
Current Estimate	20.2	

Disposal Estimate Details

Date of Estimate: January 29, 2015

Source of Estimate: POE

Disposal/Demilitarization Total Cost (BY 1990 $M): Total costs for disposal of all Total Quantity are 2.4

Demilitarization will occur for remaining JSOW Baseline/BLU-108 units in FY 2018.

UNITARY

Cost Estimate Details

Date of Estimate: January 29, 2015
Source of Estimate: POE
Quantity to Sustain: 3185
Unit of Measure: Total Quantity
Service Life per Unit: 20.00 Years
Fiscal Years in Service: FY 2006 - FY 2037

- Estimate based on JSOW production termination after FY 2015.
- No additional Unit Operations, Unit-Level Manpower, or Indirect Support were required with the release of the JSOW Unitary variant.

Sustainment Strategy

- Single-tier maintenance approach (Depot Level) at contractor facility.
- No warranty.

Antecedent Information

No Antecedent

Annual O&S Costs BY1990 $M		
Cost Element	**UNITARY Average Annual Cost Per Total Quantity**	**No Antecedent (Antecedent) No Antecedent**
Unit-Level Manpower	0.000	--
Unit Operations	0.000	--
Maintenance	0.267	--
Sustaining Support	1.691	--
Continuing System Improvements	1.013	--
Indirect Support	0.000	--
Other	0.000	--
Total	2.971	--

Item	Total O&S Cost $M			
	UNITARY			No Antecedent (Antecedent)
	Current Production APB Objective/Threshold		Current Estimate	
Base Year	N/A	N/A	95.0	N/A
Then Year	N/A	N/A	195.6	N/A

Equation to Translate Annual Cost to Total Cost

32 Years * $2.971M Average Annual Cost = $95.0M

O&S Cost Variance		
Category	**BY 1990 $M**	**Change Explanations**
Prior SAR Total O&S Estimates - Dec 2013 SAR	152.7	
Programmatic/Planning Factors	-57.7	Revised estimate due to reduced quantity and sustainment life of the JSOW Unitary variant as the result of production termination after FY 2015.
Cost Estimating Methodology	0.0	
Cost Data Update	0.0	
Labor Rate	0.0	
Energy Rate	0.0	
Technical Input	0.0	
Other	0.0	
Total Changes	-57.7	
Current Estimate	95.0	

Disposal Estimate Details

Date of Estimate: January 29, 2015

Source of Estimate: POE

Disposal/Demilitarization Total Cost (BY 1990 $M): Total costs for disposal of all Total Quantity are 3.5

Disposal assumed after 20 year shelf life is complete.