



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 2015 President's Budget

Defense Acquisition Management
Information Retrieval
(DAMIR)

Report Documentation Page

Form Approved
OMB No. 0704-0188

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1. REPORT DATE DEC 2013	2. REPORT TYPE	3. DATES COVERED 00-00-2013 to 00-00-2013			
4. TITLE AND SUBTITLE Joint Standoff Weapon - Baseline Variant and Unitary Warhead Variant (JSOW)		5a. CONTRACT NUMBER			
		5b. GRANT NUMBER			
		5c. PROGRAM ELEMENT NUMBER			
6. AUTHOR(S)		5d. PROJECT NUMBER			
		5e. TASK NUMBER			
		5f. WORK UNIT NUMBER			
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Precision Strike Weapons, PMA 201,,Bldg 2272,47123 Buse Road Unit #IPT,,Patuxent River,,MD,20670		8. PERFORMING ORGANIZATION REPORT NUMBER			
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)		10. SPONSOR/MONITOR'S ACRONYM(S)			
		11. SPONSOR/MONITOR'S REPORT NUMBER(S)			
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES Selected Acquisition Report-SAR					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 62	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

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Common Acronyms and Abbreviations

Acq O&M - Acquisition-Related Operations and Maintenance
APB - Acquisition Program Baseline
APPN - Appropriation
APUC - Average Procurement Unit Cost
BA - Budget Authority/Budget Activity
BY - Base Year
DAMIR - Defense Acquisition Management Information Retrieval
Dev Est - Development Estimate
DoD - Department of Defense
DSN - Defense Switched Network
Econ - Economic
Eng - Engineering
Est - Estimating
FMS - Foreign Military Sales
FY - Fiscal Year
IOC - Initial Operational Capability
\$K - Thousands of Dollars
LRIP - Low Rate Initial Production
\$M - Millions of Dollars
MILCON - Military Construction
N/A - Not Applicable
O&S - Operating and Support
Oth - Other
PAUC - Program Acquisition Unit Cost
PB - President's Budget
PE - Program Element
Proc - Procurement
Prod Est - Production Estimate
QR - Quantity Related
Qty - Quantity
RDT&E - Research, Development, Test, and Evaluation
SAR - Selected Acquisition Report
Sch - Schedule
Spt - Support
TBD - To Be Determined
TY - Then Year
UCR - Unit Cost Reporting

Program Information

Program Name

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

DoD Component

Navy

Responsible Office

Responsible Office

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Date Assigned January 16, 2014

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

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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. Production of the JSOW-B is deferred.

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

JSOW is in the post Milestone III production phase 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 832 weapons delivered through December 2013.

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. JSOW-C-1 will complete Operational Test (OT) in 2014 and is expected to achieve IOC in 2015 with threshold platform F/A-18E/F H10E System Configuration Set (SCS). The JSOW-C-1 program has successfully executed Developmental Test and Integrated Test phases with F/A-18 SCS H8E, scoring all direct hits, and demonstrating aimpoint accuracy for Moving Maritime Targets and retention of the Stationary Land Target capability. JSOW-C-1 OT was delayed from FY 2013 to FY 2014 as a result of weapon system/aircraft software integration issues realized with the F/A-18 H8E Operational Flight Program (OFP). JSOW-C-1 OT phase is now aligned with the F/A-18E/F H10E SCS to improve overall system-of-system performance and address weapon/aircraft suitability issues identified with F/A-18 SCS H8E integration. Results from captive flight tests utilizing the H10 SCS have demonstrated positive trend of resolving previously identified weapon/aircraft integration and Pilot/Vehicle interface issues. Platform integration continues through FY 2014 with required flight tests scheduled for both the Land and Sea Test Ranges. Successful entrance into OT and IOC with F/A-18 H10 Operational Flight Program is planned.

JSOW FY 2015 PB profile reflects a reduction from economic ordering quantities to minimum sustaining rate quantities in FY 2015 and FY 2016, FY 2017 through FY 2019 production deferral, and planned strategy to align with FMS procurement synergies in FY 2017 through FY 2023. These adjustments have resulted in a four year extension and a \$205.4M increase to the unitary subprogram total cost. Sequestration and budgetary reductions contributed to higher unit costs within the Future Year's Defense Program.

The JSOW Program awarded a base plus option year production contract in June 2013 for Full Rate Production (FRP) Lots 9 and 10. The base year (FRP 9) was awarded at a quantity of 200 weapons. The FRP 10 option was exercised in December 2013 at a quantity of 212 weapons.

The JSOW program continues to meet all Capability Production Document, Key Performance Parameters, Key System Attributes and APB cost, schedule and performance thresholds.

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

Threshold Breaches

BASELINE/BLU-108

APB Breaches		
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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		
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Current UCR Baseline		
	PAUC	None
	APUC	None
Original UCR Baseline		
	PAUC	None
	APUC	None

UNITARY

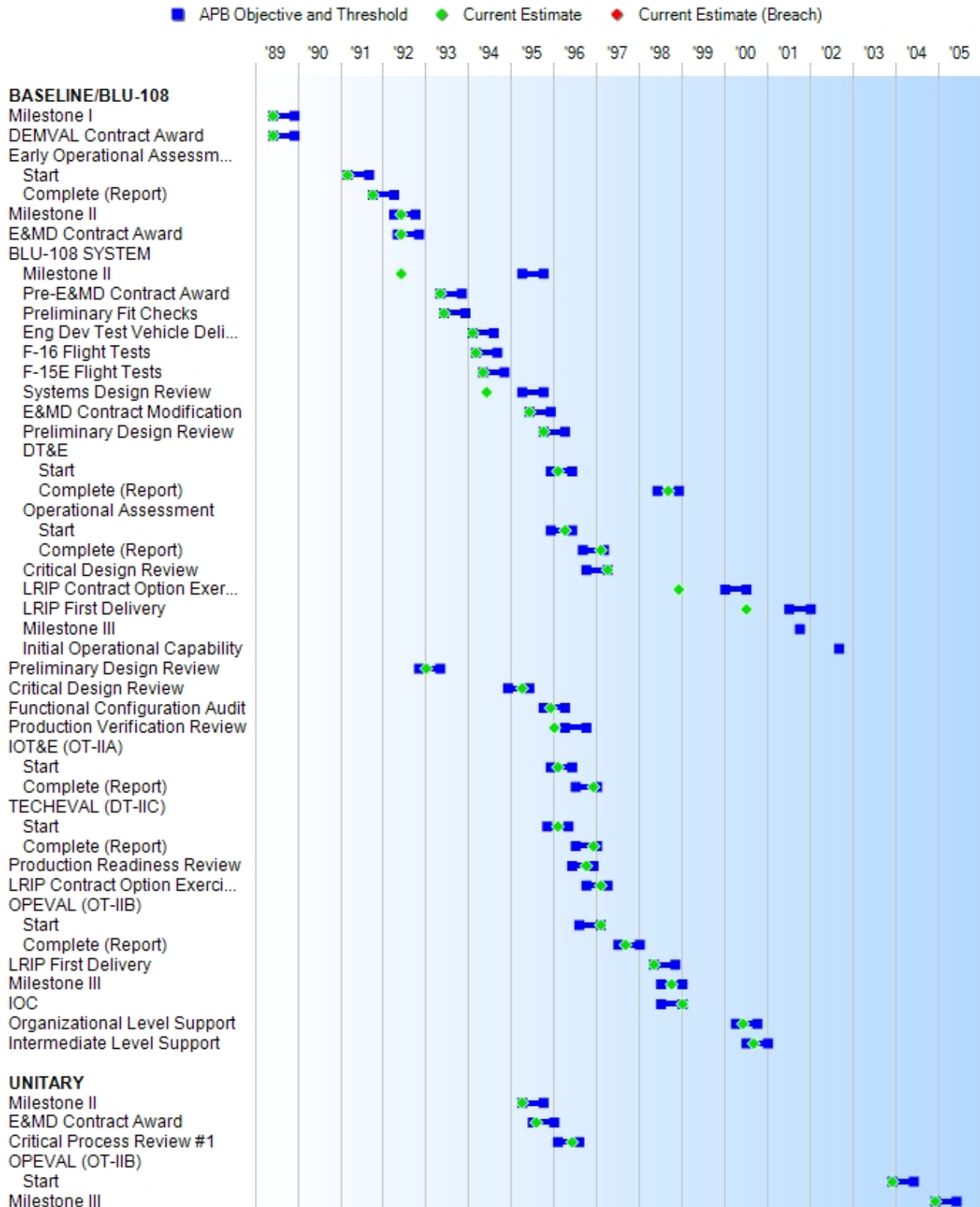
APB Breaches		
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Schedule		<input type="checkbox"/>
Performance		<input type="checkbox"/>
Cost	RDT&E	<input type="checkbox"/>
	Procurement	<input type="checkbox"/>
	MILCON	<input type="checkbox"/>
	Acq O&M	<input type="checkbox"/>
O&S Cost		<input type="checkbox"/>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

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

Schedule



IOC

BASELINE/BLU-108				
Milestones	SAR Baseline Prod Est	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

Milestones	SAR Baseline Prod Est	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					
Characteristics	SAR Baseline Prod Est	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 Source

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					
Characteristics	SAR Baseline Prod Est	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	4.49	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	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 (Ch-1)

				Warrior 2013 testing with E2D.	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 Interopera - bility Certification testing is scheduled to complete with F/A- 18E/F H10E SCS.

(Ch-2)

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

Requirements Source

Capability Production Document (CPD) dated February 2, 2009

Change Explanations

(Ch-1) Current estimate for Weapon Data Link was updated with an additional event where the objective was demonstrated.

(Ch-2) Current estimate for Net-Ready KPP has changed to reflect the Joint Operability Certification Testing alignment with H10E software.

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	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

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	Joint Standoff Weapon (Navy)	

Navy 1507 06 0204162N

Line Item	Name
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6120	Spares	(Shared)
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Cost and Funding

Cost Summary - Total Program

Total Acquisition Cost and Quantity - Total Program

Appropriation	BY1990 \$M			BY1990 \$M	TY \$M		
	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDT&E	836.8	887.8	--	915.7	992.5	1052.9	1097.7
Procurement	4685.5	2636.7	--	2744.9	6852.4	3862.5	4352.0
Flyaway	--	--	--	2691.6	--	--	4271.4
Recurring	--	--	--	2320.6	--	--	3725.4
Non Recurring	--	--	--	371.0	--	--	546.0
Support	--	--	--	53.3	--	--	80.6
Other Support	--	--	--	49.7	--	--	74.6
Initial Spares	--	--	--	3.6	--	--	6.0
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	3660.6	7873.5	4915.4	5449.7

Cost and Funding

Cost Summary - BASELINE/BLU-108

Total Acquisition Cost and Quantity - BASELINE/BLU-108

Appropriation	BY1990 \$M			BY1990 \$M	TY \$M		
	SAR Baseline Prod Est	Current APB Production Objective/Threshold	Current Estimate	Current Estimate	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDT&E	554.0	564.1	620.5	563.6	645.0	643.6	643.6
Procurement	2990.5	941.7	1035.9	908.1	4225.1	1235.2	1230.0
Flyaway	--	--	--	886.6	--	--	1202.7
Recurring	--	--	--	713.3	--	--	978.2
Non Recurring	--	--	--	173.3	--	--	224.5
Support	--	--	--	21.5	--	--	27.3
Other Support	--	--	--	20.7	--	--	26.2
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	1471.7	4898.7	1878.8	1873.6

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	0	0	0
Procurement	16124	3334	3334
Total	16124	3334	3334

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

Cost Summary - UNITARY**Total Acquisition Cost and Quantity - UNITARY**

Appropriation	BY1990 \$M			BY1990 \$M	TY \$M		
	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDT&E	282.8	323.7	356.1	352.1	347.5	409.3	454.1
Procurement	1695.0	1695.0	1864.5	1836.8	2627.3	2627.3	3122.0
Flyaway	--	--	--	1805.0	--	--	3068.7
Recurring	--	--	--	1607.3	--	--	2747.2
Non Recurring	--	--	--	197.7	--	--	321.5
Support	--	--	--	31.8	--	--	53.3
Other Support	--	--	--	29.0	--	--	48.4
Initial Spares	--	--	--	2.8	--	--	4.9
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	2188.9	2974.8	3036.6	3576.1

Confidence Level for Current APB Cost 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.

Quantity	SAR Baseline Prod Est	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 and Quantity Summary - Total Program FY2015 President's Budget / December 2013 SAR (TY\$ M)

Appropriation	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	To Complete	Total
RDT&E	1087.9	0.4	4.4	0.4	0.4	0.4	0.4	3.4	1097.7
Procurement	2243.1	117.9	131.0	160.2	0.2	0.2	0.2	1699.2	4352.0
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2015 Total	3331.0	118.3	135.4	160.6	0.6	0.6	0.6	1702.6	5449.7
PB 2014 Total	3343.6	137.5	168.7	171.1	174.2	198.1	247.3	805.0	5245.5
Delta	-12.6	-19.2	-33.3	-10.5	-173.6	-197.5	-246.7	897.6	204.2

Cost and Funding

Funding Summary - BASELINE/BLU-108

Appropriation and Quantity Summary - BASELINE/BLU-108 FY2015 President's Budget / December 2013 SAR (TY\$ M)

Appropriation	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	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	213.7	1230.0
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2015 Total	1659.9	0.0	0.0	0.0	0.0	0.0	0.0	213.7	1873.6
PB 2014 Total	1659.9	0.0	0.0	0.0	0.0	0.0	40.8	174.1	1874.8
Delta	0.0	0.0	0.0	0.0	0.0	0.0	-40.8	39.6	-1.2

Quantity	Undistributed	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	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 2015 Total	0	2517	0	0	0	0	0	0	817	3334
PB 2014 Total	0	2517	0	0	0	0	0	164	653	3334
Delta	0	0	0	0	0	0	0	-164	164	0

Funding Summary - UNITARY

Appropriation and Quantity Summary - UNITARY FY2015 President's Budget / December 2013 SAR (TY\$ M)

Appropriation	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	To Complete	Total
RDT&E	444.3	0.4	4.4	0.4	0.4	0.4	0.4	3.4	454.1
Procurement	1226.8	117.9	131.0	160.2	0.2	0.2	0.2	1485.5	3122.0
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2015 Total	1671.1	118.3	135.4	160.6	0.6	0.6	0.6	1488.9	3576.1
PB 2014 Total	1683.7	137.5	168.7	171.1	174.2	198.1	206.5	630.9	3370.7
Delta	-12.6	-19.2	-33.3	-10.5	-173.6	-197.5	-205.9	858.0	205.4

JSOW FY 2015 PB profile reflects FY 2017 to FY 2019 production deferral and planned strategy to align with FMS procurement synergies from FY 2017 to FY 2023.

Quantity	Undistributed	Prior	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019	To Complete	Total
Development	0	0	0	0	0	0	0	0	0	0
Production	0	2773	212	200	200	0	0	0	3615	7000
PB 2015 Total	0	2773	212	200	200	0	0	0	3615	7000
PB 2014 Total	0	2851	328	431	432	440	496	506	1516	7000
Delta	0	-78	-116	-231	-232	-440	-496	-506	2099	0

Cost and Funding

Annual Funding By Appropriation - BASELINE/BLU-108

Annual Funding TY\$ - BASELINE/BLU-108

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

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
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 BY\$ - BASELINE/BLU-108

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

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1990 \$M	Non End Item Recurring Flyaway BY 1990 \$M	Non Recurring Flyaway BY 1990 \$M	Total Flyaway BY 1990 \$M	Total Support BY 1990 \$M	Total Program BY 1990 \$M
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 TY\$ - BASELINE/BLU-108**3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force**

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
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 BY\$ - BASELINE/BLU-108**3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force**

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1990 \$M	Non End Item Recurring Flyaway BY 1990 \$M	Non Recurring Flyaway BY 1990 \$M	Total Flyaway BY 1990 \$M	Total Support BY 1990 \$M	Total Program BY 1990 \$M
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 TY\$ - BASELINE/BLU-108
1507 | Procurement | Weapons Procurement, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
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	--	--	--	--	--	--	--
2018	--	--	--	--	--	--	--
2019	--	--	--	--	--	--	--
2020	--	--	--	--	--	--	--
2021	--	--	--	--	--	--	--
2022	204	46.8	--	4.6	51.4	0.2	51.6
2023	204	47.9	--	4.7	52.6	0.2	52.8
2024	204	49.4	--	4.9	54.3	0.2	54.5

2025	205	49.7	--	4.9	54.6	0.2	54.8
Subtotal	2800	826.6	--	178.8	1005.4	13.7	1019.1

Annual Funding BY\$ - BASELINE/BLU-108
1507 | Procurement | Weapons Procurement, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1990 \$M	Non End Item Recurring Flyaway BY 1990 \$M	Non Recurring Flyaway BY 1990 \$M	Total Flyaway BY 1990 \$M	Total Support BY 1990 \$M	Total Program BY 1990 \$M
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	--	--	--	--	--	--	--
2018	--	--	--	--	--	--	--
2019	--	--	--	--	--	--	--
2020	--	--	--	--	--	--	--
2021	--	--	--	--	--	--	--
2022	204	24.5	--	2.5	27.0	0.1	27.1
2023	204	24.6	--	2.4	27.0	0.1	27.1
2024	204	24.9	--	2.5	27.4	0.1	27.5

2025	205	24.6	--	2.4	27.0	0.1	27.1
Subtotal	2800	595.3	--	137.4	732.7	10.7	743.4

Annual Funding TY\$ - BASELINE/BLU-108
3020 | Procurement | Missile Procurement, Air Force

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
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 BY\$ - BASELINE/BLU-108
3020 | Procurement | Missile Procurement, Air Force

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1990 \$M	Non End Item Recurring Flyaway BY 1990 \$M	Non Recurring Flyaway BY 1990 \$M	Total Flyaway BY 1990 \$M	Total Support BY 1990 \$M	Total Program BY 1990 \$M
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 TY\$ - UNITARY

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

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
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	--	--	--	--	--	--	5.5
2014	--	--	--	--	--	--	0.4
2015	--	--	--	--	--	--	4.4
2016	--	--	--	--	--	--	0.4
2017	--	--	--	--	--	--	0.4
2018	--	--	--	--	--	--	0.4

2019	--	--	--	--	--	--	0.4
2020	--	--	--	--	--	--	0.4
2021	--	--	--	--	--	--	0.5
2022	--	--	--	--	--	--	0.5
2023	--	--	--	--	--	--	0.5
2024	--	--	--	--	--	--	0.5
2025	--	--	--	--	--	--	0.5
2026	--	--	--	--	--	--	0.5
Subtotal	--	--	--	--	--	--	454.1

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

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1990 \$M	Non End Item Recurring Flyaway BY 1990 \$M	Non Recurring Flyaway BY 1990 \$M	Total Flyaway BY 1990 \$M	Total Support BY 1990 \$M	Total Program BY 1990 \$M
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	--	--	--	--	--	--	3.5
2014	--	--	--	--	--	--	0.2
2015	--	--	--	--	--	--	2.7
2016	--	--	--	--	--	--	0.2
2017	--	--	--	--	--	--	0.2
2018	--	--	--	--	--	--	0.2
2019	--	--	--	--	--	--	0.2
2020	--	--	--	--	--	--	0.2

2021	--	--	--	--	--	--	0.3
2022	--	--	--	--	--	--	0.3
2023	--	--	--	--	--	--	0.3
2024	--	--	--	--	--	--	0.3
2025	--	--	--	--	--	--	0.2
2026	--	--	--	--	--	--	0.2
Subtotal	--	--	--	--	--	--	352.1

Annual Funding TY\$ - UNITARY
1507 | Procurement | Weapons Procurement, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
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	119.7	--	22.4	142.1	2.4	144.5
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	118.1	--	10.3	128.4	0.7	129.1
2013	202	96.0	--	23.7	119.7	0.7	120.4
2014	212	96.4	--	14.6	111.0	6.9	117.9
2015	200	96.1	--	34.2	130.3	0.7	131.0
2016	200	99.3	--	29.0	128.3	31.9	160.2
2017	--	--	--	--	--	0.2	0.2
2018	--	--	--	--	--	0.2	0.2
2019	--	--	--	--	--	0.2	0.2
2020	517	194.4	--	14.1	208.5	0.6	209.1
2021	517	187.5	--	14.4	201.9	0.6	202.5
2022	517	184.9	--	11.7	196.6	0.6	197.2
2023	516	187.7	--	12.0	199.7	0.6	200.3
2024	516	204.7	--	12.4	217.1	0.8	217.9
2025	516	209.1	--	12.8	221.9	0.8	222.7
2026	516	222.1	--	12.6	234.7	1.1	235.8
Subtotal	7000	2747.2	--	321.5	3068.7	53.3	3122.0

Annual Funding BY\$ - UNITARY
1507 | Procurement | Weapons Procurement, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1990 \$M	Non End Item Recurring Flyaway BY 1990 \$M	Non Recurring Flyaway BY 1990 \$M	Total Flyaway BY 1990 \$M	Total Support BY 1990 \$M	Total Program BY 1990 \$M
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	--	15.8	100.2	1.7	101.9
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	75.0	--	6.6	81.6	0.4	82.0
2013	202	60.0	--	14.8	74.8	0.4	75.2
2014	212	59.2	--	8.9	68.1	4.3	72.4
2015	200	57.9	--	20.6	78.5	0.4	78.9
2016	200	58.7	--	17.1	75.8	18.8	94.6
2017	--	--	--	--	--	0.1	0.1
2018	--	--	--	--	--	0.1	0.1
2019	--	--	--	--	--	0.1	0.1
2020	517	106.1	--	7.7	113.8	0.3	114.1
2021	517	100.3	--	7.7	108.0	0.3	108.3
2022	517	97.0	--	6.1	103.1	0.3	103.4
2023	516	96.5	--	6.1	102.6	0.4	103.0
2024	516	103.2	--	6.1	109.3	0.5	109.8
2025	516	103.3	--	6.5	109.8	0.3	110.1
2026	516	107.6	--	6.2	113.8	0.5	114.3
Subtotal	7000	1607.3	--	197.7	1805.0	31.8	1836.8

Low Rate Initial Production

BASELINE/BLU-108

	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

	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	Memo
Turkey	11/15/2005	0	4.9	United States (US) Navy 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: \$4,955,940.00
Turkey	11/15/2005	50	26.4	US Navy Case TK-P-AID - Turkey; 50 AGM-154A-1; 54 AGM-154C Total Case Value: \$26,422,774.00

UNITARY

Country	Date of Sale	Quantity	Total Cost \$M	Memo
Australia	6/25/2009		29.8	United States (US) Navy Case XX-P-AYG - Australia; Total Case Value: \$29,853,224.00
Finland	6/5/2009	11	8.9	US Navy Case FI-P-LBD - Finland; 11 AGM-154C; Total Case Value \$8,897,122.95
Australia	3/31/2008	15	17.2	US Navy Case XX-P-AYI - Australia; 15 AGM-154C; Total Case Value: \$17,161,962.00 (per definitization mod P00026)
Greece	1/31/2007	40	13.3	US Navy Case GR-P-ANQ - Greece; 40 AGM-154C (Unitary) weapons; Total Case Value \$13,294,755.14
Greece	12/13/2005	0	3.2	US Air Force Case GR-D-SNY - 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	US Navy Case TK-P-AID - Turkey; 50 AGM-154A-1; 54 AGM-154C Total Case Value: \$26,442,774.00
Poland	4/18/2003	80	27.4	US Air Force Case PL-D-SAC - Poland; 80 AGM-154C (Unitary) weapons; Total Case Value \$27,428,861.80; DD Form 1513, Line 007

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

Nuclear Costs

BASELINE/BLU-108

None

UNITARY

None

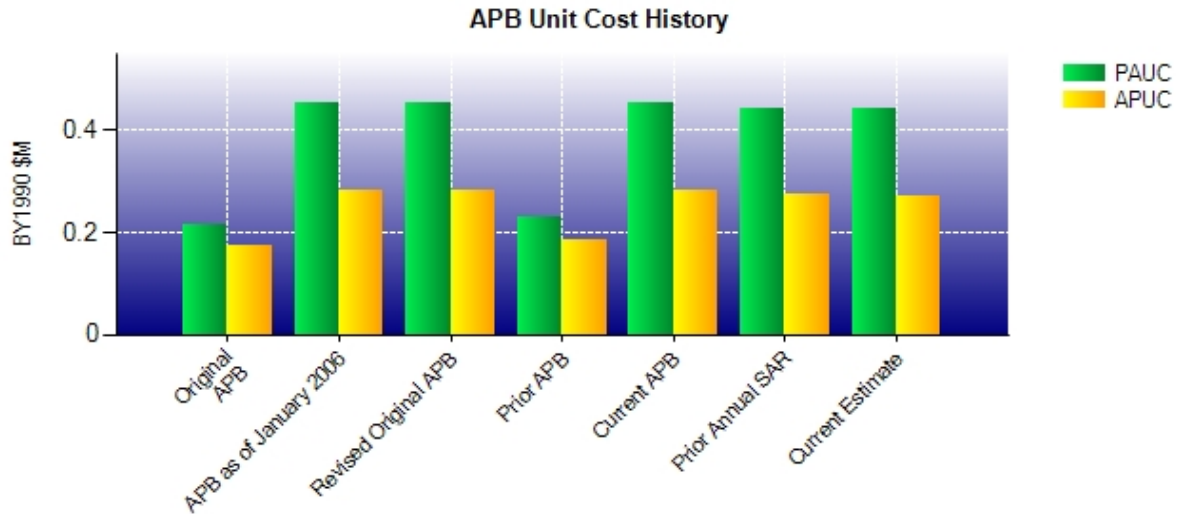
Unit Cost**BASELINE/BLU-108****Unit Cost Report**

	BY1990 \$M	BY1990 \$M	
Unit Cost	Current UCR Baseline (DEC 2004 APB)	Current Estimate (DEC 2013 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	1505.8	1471.7	
Quantity	3334	3334	
Unit Cost	0.452	0.441	-2.43
Average Procurement Unit Cost (APUC)			
Cost	941.7	908.1	
Quantity	3334	3334	
Unit Cost	0.282	0.272	-3.55

	BY1990 \$M	BY1990 \$M	
Unit Cost	Revised Original UCR Baseline (DEC 2004 APB)	Current Estimate (DEC 2013 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	1505.8	1471.7	
Quantity	3334	3334	
Unit Cost	0.452	0.441	-2.43
Average Procurement Unit Cost (APUC)			
Cost	941.7	908.1	
Quantity	3334	3334	
Unit Cost	0.282	0.272	-3.55

BASELINE/BLU-108

Unit Cost History



	Date	BY1990 \$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 2012	0.443	0.274	0.562	0.369
Current Estimate	DEC 2013	0.441	0.272	0.562	0.369

SAR Unit Cost History

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

Initial PAUC Dev Est	Changes								PAUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.340	-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 Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.304	-0.010	0.205	0.125	0.031	-0.087	0.000	-0.006	0.258	0.562

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

Initial APUC Dev Est	Changes								APUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.290	-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 Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.262	-0.010	0.044	0.125	0.018	-0.064	0.000	-0.006	0.107	0.369

SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	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	1873.6
Total Quantity	N/A	8800	16124	3334
Prog. Acq. Unit Cost (PAUC)	N/A	0.337	0.304	0.562

UNITARY

Unit Cost Report

	BY1990 \$M	BY1990 \$M	
Unit Cost	Current UCR Baseline (AUG 2009 APB)	Current Estimate (DEC 2013 SAR)	BY % Change

Program Acquisition Unit Cost (PAUC)

Cost	2018.7	2188.9	
Quantity	7000	7000	
Unit Cost	0.288	0.313	+8.68

Average Procurement Unit Cost (APUC)

Cost	1695.0	1836.8	
Quantity	7000	7000	
Unit Cost	0.242	0.262	+8.26

	BY1990 \$M	BY1990 \$M	
Unit Cost	Original UCR Baseline (APR 1995 APB)	Current Estimate (DEC 2013 SAR)	BY % Change

Program Acquisition Unit Cost (PAUC)

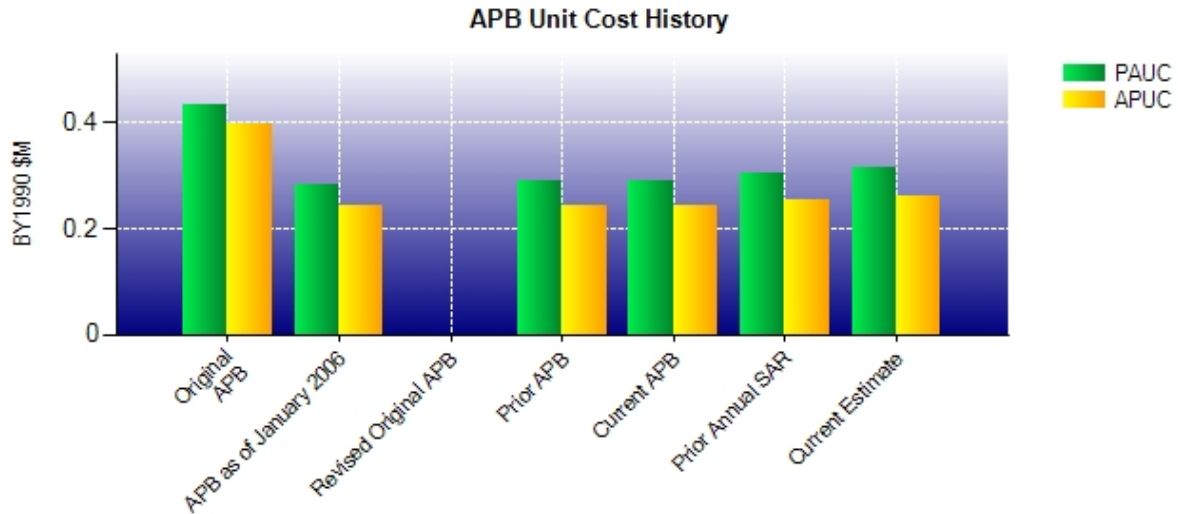
Cost	3360.9	2188.9	
Quantity	7800	7000	
Unit Cost	0.431	0.313	-27.38

Average Procurement Unit Cost (APUC)

Cost	3103.7	1836.8	
Quantity	7800	7000	
Unit Cost	0.398	0.262	-34.17

UNITARY

Unit Cost History



	Date	BY1990 \$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 2012	0.304	0.254	0.482	0.417
Current Estimate	DEC 2013	0.313	0.262	0.511	0.446

SAR Unit Cost History

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

Initial PAUC Dev Est	Changes								PAUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.809	-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 Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.425	0.018	0.000	0.043	0.095	-0.074	0.000	0.004	0.086	0.511

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

Initial APUC Dev Est	Changes								APUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.766	-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 Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.375	0.017	0.000	0.042	0.088	-0.081	0.000	0.004	0.070	0.446

SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	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	3576.1
Total Quantity	N/A	7800	7000	7000
Prog. Acq. Unit Cost (PAUC)	N/A	0.809	0.425	0.511

Cost Variance**BASELINE/BLU-108**

Summary Then Year \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	645.0	4225.1	28.6	4898.7
Previous Changes				
Economic	+1.5	-32.2	--	-30.7
Quantity	--	-3204.5	--	-3204.5
Schedule	--	+403.7	+0.4	+404.1
Engineering	+44.1	+59.9	--	+104.0
Estimating	-47.0	-200.2	-29.0	-276.2
Other	--	--	--	--
Support	--	-20.6	--	-20.6
Subtotal	-1.4	-2993.9	-28.6	-3023.9
Current Changes				
Economic	--	-1.2	--	-1.2
Quantity	--	--	--	--
Schedule	--	+13.5	--	+13.5
Engineering	--	--	--	--
Estimating	--	-12.8	--	-12.8
Other	--	--	--	--
Support	--	-0.7	--	-0.7
Subtotal	--	-1.2	--	-1.2
Total Changes	-1.4	-2995.1	-28.6	-3025.1
CE - Cost Variance	643.6	1230.0	--	1873.6
CE - Cost & Funding	643.6	1230.0	--	1873.6

Summary Base Year 1990 \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	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	-56.4	-21.8	-101.7
Other	--	--	--	--
Support	--	-13.2	--	-13.2
Subtotal	+9.6	-2077.0	-21.8	-2089.2
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	--	--	--
Engineering	--	--	--	--
Estimating	--	-5.0	--	-5.0
Other	--	--	--	--
Support	--	-0.4	--	-0.4
Subtotal	--	-5.4	--	-5.4
Total Changes	+9.6	-2082.4	-21.8	-2094.6
CE - Cost Variance	563.6	908.1	--	1471.7
CE - Cost & Funding	563.6	908.1	--	1471.7

Previous Estimate: December 2012

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-1.2
Revised estimate to reflect application of new outyear escalation indices. (Estimating)	+0.2	+0.5
Stretch-out of procurement buy profile due to deferral of the JSOW-A production restart from FY 2019 to FY 2022. (Schedule)	0.0	+13.5
Revised estimate to account for economies of scale savings generated from FMS procurements. (Estimating)	-5.2	-13.3
Decrease in Other Support due to JSOW-A procurement profile compression. (Support)	-0.4	-0.7
Procurement Subtotal	-5.4	-1.2

Cost Variance**UNITARY**

Summary Then Year \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	347.5	2627.3	--	2974.8
Previous Changes				
Economic	+3.7	+138.7	--	+142.4
Quantity	--	--	--	--
Schedule	+7.5	+146.4	--	+153.9
Engineering	+46.7	+616.0	--	+662.7
Estimating	+44.9	-627.5	--	-582.6
Other	--	--	--	--
Support	--	+19.5	--	+19.5
Subtotal	+102.8	+293.1	--	+395.9
Current Changes				
Economic	-0.2	-16.3	--	-16.5
Quantity	--	--	--	--
Schedule	--	+148.1	--	+148.1
Engineering	--	--	--	--
Estimating	+4.0	+62.6	--	+66.6
Other	--	--	--	--
Support	--	+7.2	--	+7.2
Subtotal	+3.8	+201.6	--	+205.4
Total Changes	+106.6	+494.7	--	+601.3
CE - Cost Variance	454.1	3122.0	--	3576.1
CE - Cost & Funding	454.1	3122.0	--	3576.1

Summary Base Year 1990 \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	282.8	1695.0	--	1977.8
Previous Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	+4.9	+48.5	--	+53.4
Engineering	+31.1	+378.0	--	+409.1
Estimating	+30.9	-355.7	--	-324.8
Other	--	--	--	--
Support	--	+9.6	--	+9.6
Subtotal	+66.9	+80.4	--	+147.3
Current Changes				
Economic	--	--	--	--
Quantity	--	--	--	--
Schedule	--	+12.5	--	+12.5
Engineering	--	--	--	--
Estimating	+2.4	+44.1	--	+46.5
Other	--	--	--	--
Support	--	+4.8	--	+4.8
Subtotal	+2.4	+61.4	--	+63.8
Total Changes	+69.3	+141.8	--	+211.1
CE - Cost Variance	352.1	1836.8	--	2188.9
CE - Cost & Funding	352.1	1836.8	--	2188.9

Previous Estimate: December 2012

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
Revised estimate due to program extension from FY 2022 to FY 2026. (Estimating)	+0.6	+1.2
Revised estimate due to sequestration reduction in FY 2012 and FY 2013. (Estimating)	-0.3	-0.5
Revised estimate due to congressional reductions for Cancelled Accounts Liabilities. (Estimating)	-0.5	-0.9
Revised estimate to align JSOW-C-1 Operation Test with F/A-18E/F H10E System Configuration Set. (Estimating)	+2.5	+4.0
RDT&E Subtotal	+2.4	+3.8

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	-16.3
Adjustment for current and prior escalation. (Estimating)	+3.0	+4.8
Revised estimate to reflect application of new outyear escalation indices. (Estimating)	+3.3	+6.4
Stretch-out of procurement buy profile due to a 3 year production deferral from FY 2017 to FY 2019. (Schedule)	0.0	+122.1
Additional schedule variance to extend the JSOW production buy profile from FY 2022 to FY 2026. (Schedule)	+12.5	+26.0
Revised estimate to include obsolescence costs resulting from the 3 year production deferral. (Estimating)	+5.6	+10.0
Revised estimate due to sequestration reductions in FY 2011 through FY 2013. (Estimating)	-6.9	-11.1
Revised estimate to align JSOW-C-1 weapon/platform software integration to upgrade weapon system/aircraft operational suitability. (Estimating)	+20.3	+33.9
Revised estimate to include Telemetry Instrumentation Kits for test and training activities. (Estimating)	+22.1	+37.0
Increase in unit costs due to inefficient buy profile in FY 2014 through FY 2016. (Estimating)	+47.1	+77.9
Revised estimate to account for economies of scale savings generated from FMS in FY 2017 through FY 2023. (Estimating)	-50.4	-96.3
Adjustment for current and prior escalation. (Support)	+0.1	0.0
Increase in Captive Air Training Missile costs due to reduced synergies with the FY 2016 All-Up-Round procurement. (Support)	+5.0	+6.9
Decrease in Initial Spares. (Support)	-0.3	+0.3
Procurement Subtotal	+61.4	+201.6

Contracts

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, Type N00019-11-C-0032, FFP
 Award Date July 28, 2011
 Definitization Date July 28, 2011

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	180.3	N/A	473	180.3	180.3

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 2012 production option, the procurement of 23 additional weapons after continuing resolution ended, and the implementation of the Aero Improvement Program Engineering Change Proposal.

Cost and Schedule Variance Explanations

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

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, Type N00019-13-C-0011, FFP
 Award Date June 05, 2013
 Definitization Date June 05, 2013

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	161.8	N/A	412	161.8	161.8

Target Price Change Explanation

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the annual procurement of JSOW C-1 production buys.

Cost and Schedule Variance Explanations

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

Contract Comments

This is the first time this contract is being reported.

Deliveries and Expenditures

BASELINE/BLU-108

Delivered to Date	Plan 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	1873.6	Years Appropriated	28
Expended to Date	1659.3	Percent Years Appropriated	71.79%
Percent Expended	88.56%	Appropriated to Date	1659.9
Total Funding Years	39	Percent Appropriated	88.59%

The above data is current as of 3/31/2014.

UNITARY

Delivered to Date	Plan to Date	Actual to Date	Total Quantity	Percent Delivered
Development	0	0	0	--
Production	2324	2324	7000	33.20%
Total Program Quantity Delivered	2324	2324	7000	33.20%

Expended and Appropriated (TY \$M)

Total Acquisition Cost	3576.1	Years Appropriated	23
Expended to Date	1461.1	Percent Years Appropriated	65.71%
Percent Expended	40.86%	Appropriated to Date	1789.4
Total Funding Years	35	Percent Appropriated	50.04%

The above data is current as of 3/31/2014.

Operating and Support Cost

BASELINE/BLU-108

Assumptions and Ground Rules

Cost Estimate Reference:

JSOW Baseline/BLU-108 O&S estimate updated by the program office for FY 2015 PB.

Sustainment Strategy:

- Estimate is based on 3,334 Baseline/BLU-108 Weapons.
- Single-tier maintenance approach (Depot Level) at contractor facility.
- 20-year missile operating life.
- No warranty.
- No additional Unit Operations, Unit-Level Manpower, or Indirect Support were required with the release of the JSOW Baseline variant.

Antecedent Information:

There is no antecedent system.

Unitized O&S Costs BY1990 \$M			
Cost Element	BASELINE/BLU-108 Avg Annual Cost For All Weapons	No Antecedent (Antecedent) System	
Unit-Level Manpower	0.000		0.000
Unit Operations	0.000		0.000
Maintenance	0.258		0.000
Sustaining Support	0.936		0.000
Continuing System Improvements	1.804		0.000
Indirect Support	0.000		0.000
Other	0.000		0.000
Total	2.998		--

Unitized Cost Comments:

49 JSOW Baseline/BLU-108 total years of sustainment * \$2.998M average annual cost = \$146.9M.

	Total O&S Cost \$M			
	Current Production APB Objective/Threshold		Current Estimate	
	BASELINE/BLU-108		BASELINE/BLU-108	No Antecedent (Antecedent)
Base Year	N/A	N/A	146.9	N/A
Then Year	N/A	N/A	290.6	N/A

Total O&S Costs Comments:

JSOW is awaiting a decision on cluster munition inventories. As a result of Department of Defense directives, JSOW Baseline units are neither being procured or repaired at this time.

O&S Cost Variance		
Category	Base Year 1990 \$M	Change Explanation
Prior SAR Total O&S Estimate December 2012	208.9	
Cost Estimating Methodology	0.0	
Cost Data Update	0.0	
Labor Rate	0.0	
Energy Rate	0.0	
Technical Input	0.0	
Programmatic/Planning Factors	-62.0	Revised estimate to capture cost reductions resulting from deferred maintenance of the JSOW-A until a decision is reached on cluster munition inventories.
Other	0.0	
Total Changes	-62.0	
Current Estimate	146.9	

Disposal Costs:

Demilitarization will occur at the end of the 20 year shelf life at an estimated cost of \$5.4M.

UNITARY

Assumptions and Ground Rules

Cost Estimate Reference:

JSOW Unitary O&S estimate updated by the program office for FY 2015PB.

Sustainment Strategy:

- Estimate based on 7,000 Unitary weapons.
- Single-tier maintenance approach (Depot Level) at contractor facility.
- 20-year missile operating life.
- No warranty.
- No additional Unit Operations, Unit-Level Manpower, or Indirect Support were required with the release of the JSOW Unitary variant.

Antecedent Information:

There is no antecedent system.

Unitized O&S Costs BY1990 \$M		
Cost Element	UNITARY Avg Annual Cost For All Weapons	No Antecedent (Antecedent) System
Unit-Level Manpower	0.000	0.000
Unit Operations	0.000	0.000
Maintenance	0.533	0.000
Sustaining Support	1.834	0.000
Continuing System Improvements	1.183	0.000
Indirect Support	0.000	0.000
Other	0.000	0.000
Total	3.550	--

Unitized Cost Comments:

43 JSOW Unitary total years of sustainment * \$3.550M average annual cost = \$152.7M.

	Total O&S Cost \$M		
	Current Production APB Objective/Threshold		Current Estimate
	UNITARY	UNITARY	No Antecedent (Antecedent)
Base Year	N/A	N/A	152.7
Then Year	N/A	N/A	366.0

Total O&S Costs Comments:

O&S Cost Variance

Category	Base Year 1990 \$M	Change Explanation
Prior SAR Total O&S Estimate Decmeber 2012	\$155.8	
Cost Estimating Methodology		
Cost Data Update	-\$3.1	Revised estimate to JSOW Unitary support staffing requirements.
Labor Rate		
Energy Rate		
Technical Input		
Programmatic/Planning Factors		
Other		
Total Changes	-\$3.1	
Current Estimate	\$152.7	

Disposal Costs:

Disposal assumed after 20 year shelf life is complete at an estimated cost of \$13.4M.