



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-503



Joint Direct Attack Munition (JDAM)

As of December 31, 2012

Defense Acquisition Management
Information Retrieval
(DAMIR)

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Program Information

Program Name

Joint Direct Attack Munition (JDAM)

DoD Component

Air Force

Joint Participants

Navy

Responsible Office

Responsible Office

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References

SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated March 23, 2001

Approved APB

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated October 7, 2002

Mission and Description

The JDAM program is a joint Air Force/Navy program with the Air Force as the lead acquisition service. Designated Acquisition Category (ACAT) IC, this program upgrades the existing inventory of general purpose bombs (MK-84, BLU-109, MK-82 and MK-83) by integrating the bombs with a field installed guidance kit using a Global Positioning System Aided Inertial Navigation System (GPS/INS). JDAM provides an accurate, adverse weather capability.

JDAM is integrated with the B-52H, B-2A, B-1B, F-16C/D, F/A-18A+/C/D/E/F, F-15E, A-10C, AV-8B and F-22A aircraft.

Executive Summary

Deliveries of JDAM Lot 14 production of 10,129 tailkits were completed ahead of schedule. Deliveries of JDAM Lot 15 production of 8,139 tailkits are ahead of schedule with final delivery scheduled for May 2013. Deliveries of JDAM Lot 16 production of 9,861 tailkits are ahead of schedule with final delivery scheduled for May 2014. JDAM Lot 17 production of 4,501 tailkits was awarded December 21, 2012 with deliveries scheduled to start April 2014.

The Air Force received funding to acquire 1,500 JDAM Laser sensors capable of being incorporated with an Adjustable Proximity Sensor. This contract will be awarded by the United States Navy during FY 2013.

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

Threshold Breaches

APB Breaches	
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Schedule		<input type="checkbox"/>
Performance		<input type="checkbox"/>
Cost	RDT&E	<input type="checkbox"/>
	Procurement	<input checked="" 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"/>

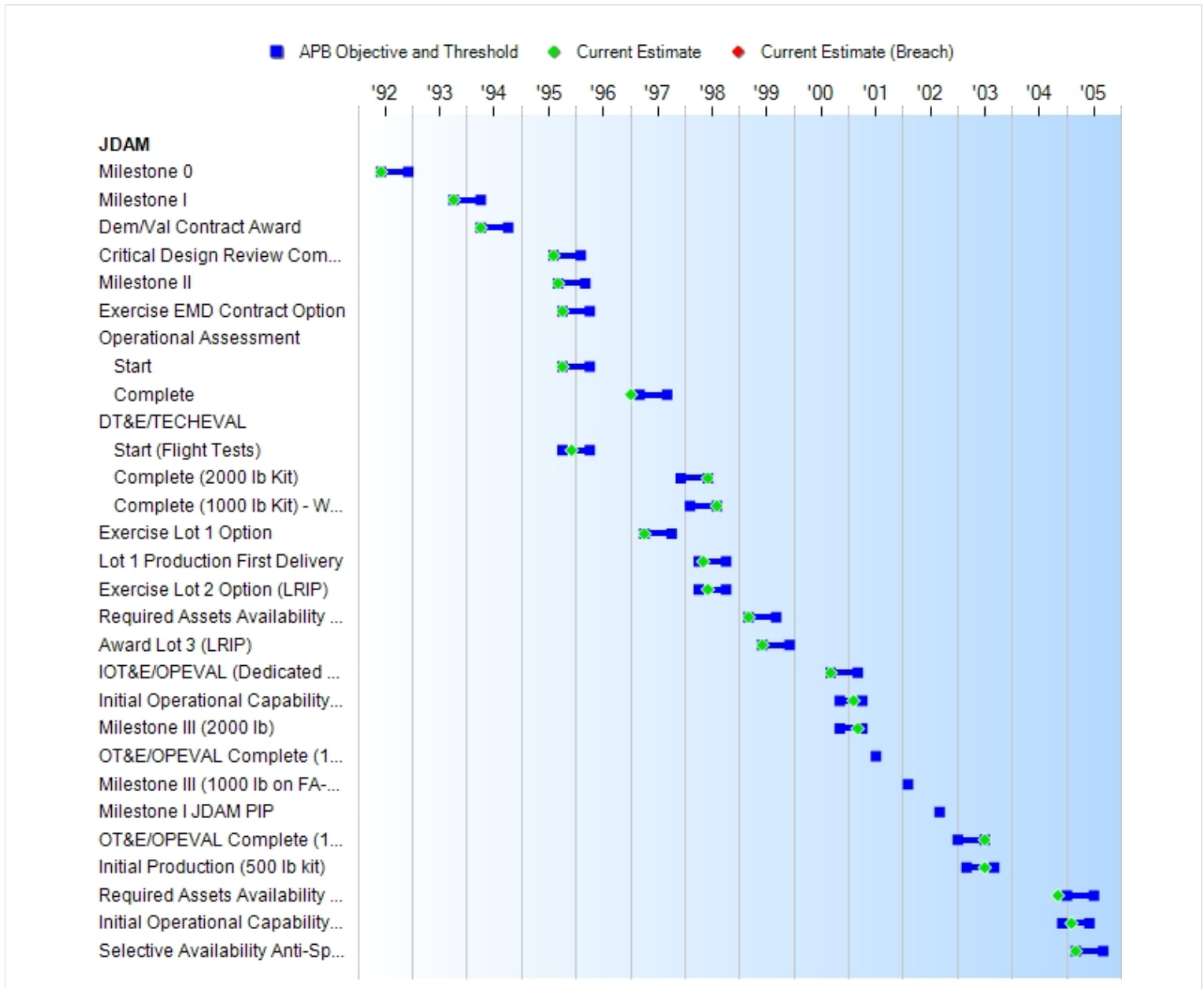
Explanation of Breach

FY 2018 added 2,689 tailkits and \$109.0M to the funding profile causing the total procurement funding to exceed the Aquisition Program Baseline (APB) threshold by \$34.2M. An APB update is in progress.

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

Schedule



Milestones	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate
Milestone 0	JUN 1992	JUN 1992	DEC 1992	JUN 1992
Milestone I	OCT 1993	OCT 1993	APR 1994	OCT 1993
Dem/Val Contract Award	APR 1994	APR 1994	OCT 1994	APR 1994
Critical Design Review Complete	AUG 1995	AUG 1995	FEB 1996	AUG 1995
Milestone II	SEP 1995	SEP 1995	MAR 1996	SEP 1995
Exercise EMD Contract Option	OCT 1995	OCT 1995	APR 1996	OCT 1995
Operational Assessment				
Start	OCT 1995	OCT 1995	APR 1996	OCT 1995
Complete	MAR 1997	MAR 1997	SEP 1997	JAN 1997
DT&E/TECHEVAL				
Start (Flight Tests)	OCT 1995	OCT 1995	APR 1996	DEC 1995
Complete (2000 lb Kit)	DEC 1997	DEC 1997	JUN 1998	JUN 1998
Complete (1000 lb Kit) - Weapon Only	FEB 1998	FEB 1998	AUG 1998	AUG 1998
Exercise Lot 1 Option	APR 1997	APR 1997	OCT 1997	APR 1997
Lot 1 Production First Delivery	APR 1998	APR 1998	OCT 1998	MAY 1998
Exercise Lot 2 Option (LRIP)	APR 1998	APR 1998	OCT 1998	JUN 1998
Required Assets Availability (AF)	MAR 1999	MAR 1999	SEP 1999	MAR 1999
Award Lot 3 (LRIP)	JUN 1999	JUN 1999	DEC 1999	JUN 1999
IOT&E/OPEVAL (Dedicated 2000 lb Kit) Complete	SEP 2000	SEP 2000	MAR 2001	SEP 2000
Initial Operational Capability (FA-18)	NOV 2000	NOV 2000	APR 2001	FEB 2001
Milestone III (2000 lb)	NOV 2000	NOV 2000	APR 2001	MAR 2001
OT&E/OPEVAL Complete (1000 lb Kit/FA- 18C/D)	JUL 2001	N/A	N/A	N/A
Milestone III (1000 lb on FA-18C/D)	FEB 2002	N/A	N/A	N/A
Milestone I JDAM PIP	SEP 2002	N/A	N/A	N/A
OT&E/OPEVAL Complete (1000 lb Kit/FA- 18C/D)	N/A	JAN 2003	JUL 2003	JUL 2003
Initial Production (500 lb kit)	N/A	MAR 2003	SEP 2003	JUL 2003
Required Assets Availability (RAA) (500 lb on B-2)	N/A	JAN 2005	JUL 2005	NOV 2004
Initial Operational Capability (IOC) (500 lb kit on FA-18C/D)	N/A	DEC 2004	JUN 2005	FEB 2005
Selective Availability Anti-Spoofing Module (SAASM)/GPS Anti-Jam Production Award	N/A	MAR 2005	SEP 2005	MAR 2005

Acronyms And Abbreviations

AF - Air Force
Dem/Val - Demonstration/Validation
DT&E - Development Test and Evaluation
EMD - Engineering, Manufacturing and Development
GPS - Global Positioning System
IOT&E - Initial Operational Test and Evaluation
lb - Pound
LRIP - Low Rate Initial Production
OPEVAL - Operational Evaluation
OT&E - Operational Test and Evaluation
PIP - Product Improvement Program
TECHEVAL - Technical Evaluation

Change Explanations

None

Performance

Characteristics	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Demonstrated Performance	Current Estimate
Weather Capability	Adverse	Adverse	Adverse	Adverse	Adverse
Accuracy (CEP) (Meters)					
GPS Available, Impact Angles > 60 Deg	13 Horizontal Targets	5 Horizontal targets	13	4.3	5 Horizontal Targets
Inflight Re-targeting Capability (captive carry)	Yes	Yes	Yes	Yes	Yes
Carrier Operability	Yes	Yes	Yes	Yes	Yes
Warhead Compatibility	MK-82/BLU-111, MK-83, Improved 1000-lb, BLU-113/116/117	MK-82/BLU-111, MK-83, Improved 1000-lb, BLU-113/116/117	BLU-109, MK-84, MK-83 (F-22)	BLU-109, MK-84, MK-83 (F-22), MK-82	BLU-109, MK-84, MK-83 (F-22), MK-82
Aircraft Compatibility					
Bomber	B-1B, B-2	B-1B, B-2	B-52H	Yes	B-52H, B-1B, B-2
Fighter Attack	F-16C/D, F/A-18E/F, F-117A, F-15E, F-14A/B/D, P-3, S-3, JSF, A-10	F-16C/D, F/A-18E/F, F-117A, F-15E, F-14A/B/D, P-3, S-3, JSF, A-10	F/A-18C/D, F-22 (MK-83), AV-8B & F/A-18C/D (MK-83)	Yes	F-16C/D, F-117, F/A-18A+/C/D/E/F, F-15E, AV-8B, A-10, F-22A
Mission Reliability	.90	.90	.90	.957	.90
JDAM PIP Accuracy (CEP) (Meters)	3	N/A	N/A	N/A	N/A
JDAM PIP Weather Capability	Adverse	N/A	N/A	N/A	N/A
JDAM PIP Warhead Compatibility	MK-82, MK-83	N/A	N/A	N/A	N/A
Interoperability	N/A	Satisfy 100% of critical IERs	Satisfy 100% of critical IERs	Satisfied	Satisfied

Requirements Source: Joint Operational Requirements Document (JORD) dated March 10, 2001

Acronyms And Abbreviations

CEP - Circular Error Probable
Deg - Degree
GPS - Global Positioning System
IER - Information Exchange Requirement
JSF - Joint Strike Fighter
NA - Not Applicable
PIP - Product Improvement Program

Change Explanations

None

Track To Budget

General Memo

The Defense Emergency Response Funds (DERF) received in FY 2001 and FY 2002 are excluded from both the Air Force and Navy production funding.

RDT&E

APPN 1319	BA 05	PE 0604618N	(Navy)	
	Project 2137	JDAM		(Sunk)
APPN 3600	BA 05	PE 0604618F	(Air Force)	
	Project 3890	JDAM		

Procurement

APPN 1508	BA 01	PE 0204162N	(Navy)	
	ICN 0148	JDAM		(Sunk)
APPN 1508	BA 01	PE 0206138M	(Navy)	
	ICN 0148	JDAM		(Sunk)
APPN 3011	BA 01	PE 0207583F	(Air Force)	
	ICN 353620	JDAM		

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

Appropriation	BY1995 \$M			BY1995 \$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	490.3	575.1	661.4	572.7	517.3	604.3	602.3
Procurement	1810.0	4307.5	4738.3	4772.5 ¹	2089.4	5026.5	5839.5
Flyaway	1673.4	--	--	4382.8	1935.5	--	5355.3
Recurring	1596.9	--	--	4382.8	1847.3	--	5355.3
Non Recurring	76.5	--	--	0.0	88.2	--	0.0
Support	136.6	--	--	389.7	153.9	--	484.2
Other Support	136.6	--	--	389.7	153.9	--	484.2
Initial Spares	0.0	--	--	0.0	0.0	--	0.0
MILCON	0.0	0.0	--	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	2300.3	4882.6	N/A	5345.2	2606.7	5630.8	6441.8

¹ APB Breach

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	630	778	804
Procurement	88435	221091	241086
Total	89065	221869	241890

Cost and Funding

Funding Summary

Appropriation and Quantity Summary FY2014 President's Budget / December 2012 SAR (TY\$ M)

Appropriation	Prior	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	To Complete	Total
RDT&E	597.3	0.0	2.5	2.5	0.0	0.0	0.0	0.0	602.3
Procurement	5003.5	155.8	188.5	102.5	135.1	145.1	109.0	0.0	5839.5
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2014 Total	5600.8	155.8	191.0	105.0	135.1	145.1	109.0	0.0	6441.8
PB 2013 Total	5573.8	155.8	126.1	129.9	109.3	109.1	0.0	0.0	6204.0
Delta	27.0	0.0	64.9	-24.9	25.8	36.0	109.0	0.0	237.8

Program funding and production quantities listed in this SAR are consistent with the FY 2014 President's Budget (PB). The FY 2014 PB did not reflect the enacted DoD appropriation for FY 2013, nor sequestration; it reflected the President's requested amounts for FY 2013.

Quantity	Undistributed	Prior	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	To Complete	Total
Development	804	0	0	0	0	0	0	0	0	804
Production	0216960	4678	6965	2104	3775	3915	2689			0241086
PB 2014 Total	804216960	4678	6965	2104	3775	3915	2689			0241890
PB 2013 Total	804215529	4678	3071	3039	2944	2810	0			0232875
Delta	0	1431	0	3894	-935	831	1105	2689	0	9015

Cost and Funding

Annual Funding By Appropriation

Annual Funding TY\$

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

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
1993	--	--	--	--	--	--	23.2
1994	--	--	--	--	--	--	7.8
1995	--	--	--	--	--	--	23.0
1996	--	--	--	--	--	--	25.4
1997	--	--	--	--	--	--	22.1
1998	--	--	--	--	--	--	11.6
1999	--	--	--	--	--	--	6.1
2000	--	--	--	--	--	--	7.2
2001	--	--	--	--	--	--	23.0
2002	--	--	--	--	--	--	27.3
2003	--	--	--	--	--	--	15.5
2004	--	--	--	--	--	--	1.3
2005	--	--	--	--	--	--	0.5
2006	--	--	--	--	--	--	0.3
Subtotal	114	--	--	--	--	--	194.3

Annual Funding BY\$

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

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1995 \$M	Non End Item Recurring Flyaway BY 1995 \$M	Non Recurring Flyaway BY 1995 \$M	Total Flyaway BY 1995 \$M	Total Support BY 1995 \$M	Total Program BY 1995 \$M
1993	--	--	--	--	--	--	23.8
1994	--	--	--	--	--	--	7.8
1995	--	--	--	--	--	--	22.7
1996	--	--	--	--	--	--	24.7
1997	--	--	--	--	--	--	21.2
1998	--	--	--	--	--	--	11.0
1999	--	--	--	--	--	--	5.7
2000	--	--	--	--	--	--	6.7
2001	--	--	--	--	--	--	21.0
2002	--	--	--	--	--	--	24.7
2003	--	--	--	--	--	--	13.8
2004	--	--	--	--	--	--	1.1
2005	--	--	--	--	--	--	0.4
2006	--	--	--	--	--	--	0.2
Subtotal	114	--	--	--	--	--	184.8

Annual Funding TY\$

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	--	--	--	--	--	--	21.5
1994	--	--	--	--	--	--	61.9
1995	--	--	--	--	--	--	62.9
1996	--	--	--	--	--	--	76.4
1997	--	--	--	--	--	--	32.7
1998	--	--	--	--	--	--	21.1
1999	--	--	--	--	--	--	28.7
2000	--	--	--	--	--	--	11.3
2001	--	--	--	--	--	--	9.7
2002	--	--	--	--	--	--	16.5
2003	--	--	--	--	--	--	17.0
2004	--	--	--	--	--	--	36.0
2005	--	--	--	--	--	--	--
2006	--	--	--	--	--	--	--
2007	--	--	--	--	--	--	7.3
2008	--	--	--	--	--	--	--
2009	--	--	--	--	--	--	--
2010	--	--	--	--	--	--	--
2011	--	--	--	--	--	--	--
2012	--	--	--	--	--	--	--
2013	--	--	--	--	--	--	--
2014	--	--	--	--	--	--	2.5
2015	--	--	--	--	--	--	2.5
Subtotal	690	--	--	--	--	--	408.0

Annual Funding BY\$

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

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1995 \$M	Non End Item Recurring Flyaway BY 1995 \$M	Non Recurring Flyaway BY 1995 \$M	Total Flyaway BY 1995 \$M	Total Support BY 1995 \$M	Total Program BY 1995 \$M
1993	--	--	--	--	--	--	21.9
1994	--	--	--	--	--	--	62.1
1995	--	--	--	--	--	--	62.0
1996	--	--	--	--	--	--	73.9
1997	--	--	--	--	--	--	31.2
1998	--	--	--	--	--	--	20.0
1999	--	--	--	--	--	--	26.9
2000	--	--	--	--	--	--	10.5
2001	--	--	--	--	--	--	8.8
2002	--	--	--	--	--	--	14.9
2003	--	--	--	--	--	--	15.1
2004	--	--	--	--	--	--	31.3
2005	--	--	--	--	--	--	--
2006	--	--	--	--	--	--	--
2007	--	--	--	--	--	--	5.8
2008	--	--	--	--	--	--	--
2009	--	--	--	--	--	--	--
2010	--	--	--	--	--	--	--
2011	--	--	--	--	--	--	--
2012	--	--	--	--	--	--	--
2013	--	--	--	--	--	--	--
2014	--	--	--	--	--	--	1.8
2015	--	--	--	--	--	--	1.7
Subtotal	690	--	--	--	--	--	387.9

PE 0604618F funded an additional \$13.7M in FY 2007 for Laser JDAM and \$50M in FY 2010 for Very Low Collateral Damage Weapon.

Annual Funding TY\$

1508 | Procurement | Procurement of Ammunition, Navy and Marine Corps

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	547	10.0	--	--	10.0	10.9	20.9
1999	745	14.6	--	--	14.6	20.6	35.2
2000	916	19.3	--	--	19.3	15.7	35.0
2001	2325	50.2	--	--	50.2	15.4	65.6
2002	14551	292.4	--	--	292.4	10.1	302.5
2003	12280	242.4	--	--	242.4	8.5	250.9
2004	12422	243.7	--	--	243.7	8.2	251.9
2005	6876	142.5	--	--	142.5	8.6	151.1
2006	3288	72.5	--	--	72.5	9.0	81.5
2007	3324	73.9	--	--	73.9	12.7	86.6
2008	1422	35.5	--	--	35.5	7.1	42.6
2009	560	13.3	--	--	13.3	5.2	18.5
2010	--	--	--	--	--	2.0	2.0
Subtotal	59256	1210.3	--	--	1210.3	134.0	1344.3

Annual Funding BY\$**1508 | Procurement | Procurement of Ammunition, Navy and Marine Corps**

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1995 \$M	Non End Item Recurring Flyaway BY 1995 \$M	Non Recurring Flyaway BY 1995 \$M	Total Flyaway BY 1995 \$M	Total Support BY 1995 \$M	Total Program BY 1995 \$M
1998	547	9.4	--	--	9.4	10.2	19.6
1999	745	13.5	--	--	13.5	19.1	32.6
2000	916	17.6	--	--	17.6	14.4	32.0
2001	2325	45.3	--	--	45.3	13.9	59.2
2002	14551	261.2	--	--	261.2	9.0	270.2
2003	12280	211.7	--	--	211.7	7.4	219.1
2004	12422	207.3	--	--	207.3	7.0	214.3
2005	6876	117.8	--	--	117.8	7.1	124.9
2006	3288	58.5	--	--	58.5	7.2	65.7
2007	3324	58.2	--	--	58.2	10.1	68.3
2008	1422	27.6	--	--	27.6	5.5	33.1
2009	560	10.2	--	--	10.2	4.0	14.2
2010	--	--	--	--	--	1.5	1.5
Subtotal	59256	1038.3	--	--	1038.3	116.4	1154.7

Annual Funding TY\$
3011 | Procurement | Procurement of Ammunition, 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
1997	937	16.6	--	--	16.6	6.4	23.0
1998	1828	33.5	--	--	33.5	5.7	39.2
1999	3778	72.4	--	--	72.4	7.1	79.5
2000	8725	180.1	--	--	180.1	9.1	189.2
2001	8904	189.9	--	--	189.9	13.6	203.5
2002	14392	285.9	--	--	285.9	14.5	300.4
2003	23420	458.5	--	--	458.5	18.6	477.1
2004	20476	404.2	--	--	404.2	20.3	424.5
2005	22880	491.8	--	--	491.8	22.6	514.4
2006	8205	200.8	--	--	200.8	24.4	225.2
2007	7261	180.7	--	--	180.7	13.4	194.1
2008	4319	102.1	--	--	102.1	22.0	124.1
2009	6340	149.1	--	--	149.1	16.9	166.0
2010	7488	177.1	--	--	177.1	21.3	198.4
2011	14492	357.5	--	--	357.5	15.9	373.4
2012	4259	111.5	--	--	111.5	15.7	127.2
2013	4678	140.5	--	--	140.5	15.3	155.8
2014	6965	170.4	--	--	170.4	18.1	188.5
2015	2104	85.4	--	--	85.4	17.1	102.5
2016	3775	117.2	--	--	117.2	17.9	135.1
2017	3915	127.5	--	--	127.5	17.6	145.1
2018	2689	92.3	--	--	92.3	16.7	109.0
Subtotal	181830	4145.0	--	--	4145.0	350.2	4495.2

Annual Funding BY\$
3011 | Procurement | Procurement of Ammunition, Air Force

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1995 \$M	Non End Item Recurring Flyaway BY 1995 \$M	Non Recurring Flyaway BY 1995 \$M	Total Flyaway BY 1995 \$M	Total Support BY 1995 \$M	Total Program BY 1995 \$M
1997	937	15.7	--	--	15.7	6.1	21.8
1998	1828	31.4	--	--	31.4	5.3	36.7
1999	3778	67.0	--	--	67.0	6.6	73.6
2000	8725	164.8	--	--	164.8	8.4	173.2
2001	8904	171.9	--	--	171.9	12.3	184.2
2002	14392	254.6	--	--	254.6	12.9	267.5
2003	23420	403.5	--	--	403.5	16.4	419.9
2004	20476	348.1	--	--	348.1	17.5	365.6
2005	22880	411.9	--	--	411.9	18.9	430.8
2006	8205	163.4	--	--	163.4	19.9	183.3
2007	7261	143.5	--	--	143.5	10.6	154.1
2008	4319	79.6	--	--	79.6	17.2	96.8
2009	6340	114.6	--	--	114.6	13.0	127.6
2010	7488	134.1	--	--	134.1	16.1	150.2
2011	14492	264.7	--	--	264.7	11.8	276.5
2012	4259	80.9	--	--	80.9	11.4	92.3
2013	4678	98.9	--	--	98.9	10.7	109.6
2014	6965	117.7	--	--	117.7	12.5	130.2
2015	2104	57.9	--	--	57.9	11.6	69.5
2016	3775	78.0	--	--	78.0	11.9	89.9
2017	3915	83.2	--	--	83.2	11.5	94.7
2018	2689	59.1	--	--	59.1	10.7	69.8
Subtotal	181830	3344.5	--	--	3344.5	273.3	3617.8

Air Force does not provide inflation tables for appropriation 3011, Procurement of Ammunition, Air Force. JDAM uses inflation tables for appropriation 3020, Missile Procurement, Air Force.

Low Rate Initial Production

	Initial LRIP Decision	Current Total LRIP
Approval Date	9/20/1995	1/21/2000
Approved Quantity	425	15998
Reference	MS II ADM	LRIP 4 ADM
Start Year	1997	1997
End Year	1998	2000

The Low Rate Initial Production (LRIP) quantities approved in the Acquisition Decision Memorandum (ADM) at Milestone II, September 20, 1995, were 425 units for Lot 1. Subsequent FY 1997 budget cycle decisions approved a buy-to-budget approach for determining annual quantities and Lot 1 became 937 units. With the lower than expected unit costs and a higher demand for JDAM Guidance Kits, a second, third and fourth LRIP were added making LRIP a total quantity of 15,998. The additional LRIP quantities, required to replenish JDAM inventories depleted during Operation Allied Force, caused the Air Force to exceed the 10% LRIP limit. However, all four Congressional Defense committees concurred with the Air Force's plan before the Lot 4 contract was awarded on February 24, 2000.

Foreign Military Sales

Country	Date of Sale	Quantity	Total Cost \$M	Memo
Korea	5/1/2012	212	3.6	JDAM Kits
Iraq	4/19/2012	358	2.0	Fuzes
Canada	4/17/2012	0	0.2	Fuzes
Saudi Arabia	2/22/2012	0	56.5	Engineering Support
Saudi Arabia	2/11/2012	1100	42.3	JDAM Kits, PLGS, Fuzes
Japan	10/12/2011	8	0.7	JDAM Kits
Japan	10/12/2011	16	0.7	JDAM Kits
Belgium	9/8/2011	120	5.4	JDAM Kits, Fuzes
Malaysia	8/23/2011	0	1.8	JDAM Spares, Test Assets
Canada	8/11/2011	533	17.7	JDAM Kits, Integration Support
Japan	7/15/2011	0	4.2	Fuzes
Chile	6/10/2011	40	1.3	JDAM Kits
Norway	4/26/2011	254	9.5	JDAM Kits
Denmark	4/11/2011	210	8.9	JDAM Kits
Belgium	2/2/2011	30	0.8	Spares
Brazil	1/28/2011	0	0.3	Fuzes
Morocco	9/8/2010	10	6.0	JDAM Kits
Japan	2/9/2010	96	4.9	JDAM Kits, Fuzes
Japan	1/29/2010	31	1.7	JDAM Kits, Fuzes
Singapore	1/27/2010	670	35.5	JDAM Kits
Israel	1/22/2010	150	2.1	Precision Laser Guidance Set
Israel	1/12/2010	150	3.5	JDAM Kits
Netherlands	12/4/2009	0	2.8	Fuzes
South Korea	11/30/2009	0	3.8	JDAM Integration on F-16
Malaysia	9/28/2009	50	5.8	JDAM Kits
Norway	6/10/2009	30	5.2	JDAM Kits, Support
Kuwait	3/31/2009	51	5.9	JDAM Kits, Support
United Arab Emirates	3/24/2009	0	1.1	Repair and Return, Spares, Support
Japan	3/12/2009	120	9.2	JDAM Kits
Finland	2/25/2009	96	7.0	JDAM Kits
Singapore	2/11/2009	35	4.1	JDAM Kits

Japan	2/3/2009	36	3.1	JDAM Kits, Fuzes
Oman	2/2/2009	0	0.8	Repair and Return, Spares, Support
Israel	1/12/2009	500	14.9	JDAM Kits
Israel	1/12/2009	2950	71.6	JDAM Kits
South Korea	12/29/2008		0.4	Fuzes
South Korea	12/16/2008	4	0.5	JDAM Kits
Germany	10/28/2008		0.2	Fuzes
South Korea	9/3/2008		0.2	Fuzes
Israel	7/21/2008		0.6	Engineering Support
Saudi Arabia	7/2/2008	900	44.2	JDAM Kits, Support
South Korea	3/11/2008		2.2	Fuzes
Japan	3/7/2008	36	2.1	JDAM Kits, Fuzes
United Arab Emirates	2/21/2008	300	70.6	JDAM Kits
South Korea	2/19/2008		4.3	Fuzes, Global Positioning System (GPS) Security
South Korea	12/28/2007		0.4	Fuzes
South Korea	12/28/2007		0.4	Fuzes
Australia	12/11/2007		2.6	Engineering Support
Greece	11/20/2007	100	21.9	JDAM Kits, Integration Support
Netherlands	10/24/2007		2.8	Fuzes
Israel	10/2/2007	1000	28.0	JDAM Kits
Israel	9/26/2007	650	17.3	JDAM Kits
Israel	7/13/2007	300	8.3	JDAM Kits
Turkey	5/29/2007		0.4	Fuzes
Israel	3/5/2007	500	12.9	JDAM Kits
Japan	12/18/2006	42	1.8	JDAM Kits
Spain	12/14/2006	40	2.5	JDAM Kits
Pakistan	9/30/2006	500	23.6	JDAM Kits
Israel	7/25/2006		0.1	Engineering Support
Japan	3/27/2006	44	3.5	JDAM Kits
Japan	3/17/2006		0.1	Engineering Support
Turkey	12/28/2005	398	9.9	JDAM Kits
Turkey	12/28/2005		6.9	Integration
Greece	12/13/2005		2.3	Integration Support
Netherlands	10/7/2005	56	1.7	JDAM Kits
Turkey	4/26/2005		4.7	Integration Support

Australia	4/5/2005		0.3	Integration Support
Netherlands	3/1/2005	360	8.7	JDAM Kits, Support
Japan	1/25/2005	27	8.5	JDAM Kits, Integration, Test Assets
Belgium	12/22/2004	300	7.9	JDAM Kits
Israel	8/16/2004		17.6	F-15 Integration
Israel	7/14/2004	840	18.1	JDAM Kits, Integration
Portugal	4/15/2004	50	3.7	JDAM Kits, Support
Netherlands	2/23/2004	350	13.8	JDAM Kits, Support
Oman	2/15/2004	20	0.5	JDAM Kits
Israel	7/3/2003	1000	21.5	JDAM Kits
Poland	4/18/2003	272	10.6	JDAM Kits, Integration, Test Assets
Denmark	12/20/2002	274	11.0	JDAM Kits, Support
United Arab Emirates	8/20/2002	300	9.0	JDAM Kits
South Korea	6/12/2002	14	1.1	JDAM Kits
Oman	5/2/2002	80	3.2	JDAM Kits
Belgium	2/11/2002		0.8	Fuzes
Chile	2/1/2002	12	3.0	JDAM Kits, Integration, Test Assets
Australia	11/28/2000		6.8	Fuzes
Australia	11/28/2000		3.2	Fuzes
United Arab Emirates	8/8/2000		1.3	Integration, Test Assets
Israel	2/9/2000	700	31.5	JDAM Kits, Integration

Nuclear Cost

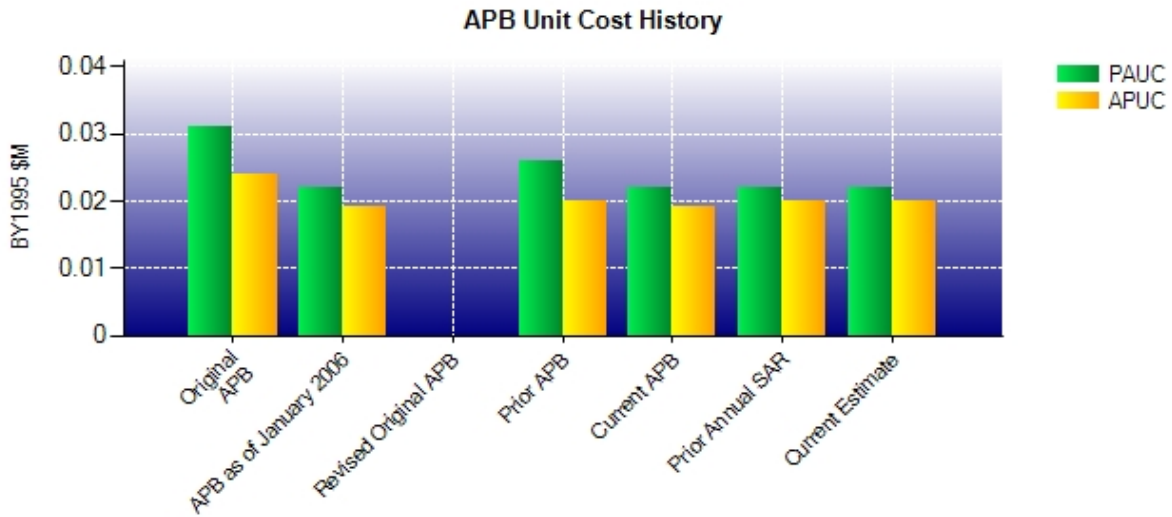
None

Unit Cost**Unit Cost Report**

	BY1995 \$M	BY1995 \$M	
Unit Cost	Current UCR Baseline (OCT 2002 APB)	Current Estimate (DEC 2012 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	4882.6	5345.2	
Quantity	221869	241890	
Unit Cost	0.022	0.022	0.00
Average Procurement Unit Cost (APUC)			
Cost	4307.5	4772.5	
Quantity	221091	241086	
Unit Cost	0.019	0.020	+5.26

	BY1995 \$M	BY1995 \$M	
Unit Cost	Original UCR Baseline (SEP 1995 APB)	Current Estimate (DEC 2012 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	2720.4	5345.2	
Quantity	88126	241890	
Unit Cost	0.031	0.022	-29.03
Average Procurement Unit Cost (APUC)			
Cost	2090.6	4772.5	
Quantity	87496	241086	
Unit Cost	0.024	0.020	-16.67

Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	SEP 1995	0.031	0.024	0.038	0.033
APB as of January 2006	OCT 2002	0.022	0.019	0.025	0.023
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	MAR 2001	0.026	0.020	0.029	0.024
Current APB	OCT 2002	0.022	0.019	0.025	0.023
Prior Annual SAR	DEC 2011	0.022	0.020	0.027	0.024
Current Estimate	DEC 2012	0.022	0.020	0.027	0.024

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	
0.038	-0.002	-0.005	0.002	0.001	-0.005	0.000	0.000	-0.009	0.029

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

PAUC Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.029	0.000	-0.007	0.000	0.000	0.004	0.000	0.001	-0.002	0.027

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	
0.033	-0.002	-0.003	0.002	0.000	-0.006	0.000	0.000	-0.009	0.024

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

APUC Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.024	0.000	-0.005	0.000	0.000	0.004	0.000	0.001	0.000	0.024

SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone I	OCT 1993	OCT 1993	OCT 1993	OCT 1993
Milestone II	OCT 1995	SEP 1995	SEP 1995	SEP 1995
Milestone III	JUL 1999	NOV 2000	NOV 2000	MAR 2001
IOC	SEP 1999	SEP 1999	NOV 2000	FEB 2001
Total Cost (TY \$M)	681.5	3392.3	2606.7	6441.8
Total Quantity	378	88126	89065	241890
Prog. Acq. Unit Cost (PAUC)	1.803	0.038	0.029	0.027

SAR Planning Estimate (PE) total cost of \$681.5 and total quantity of 378 reflect only Research, Development, Test and Evaluation values as shown in the December 31, 1993 SAR.

Initial Operational Capability (IOC) February 2001 is specifically for the F/A-18C/D.

Cost Variance

Summary Then Year \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	517.3	2089.4	--	2606.7
Previous Changes				
Economic	+3.6	+74.0	--	+77.6
Quantity	--	+2240.3	--	+2240.3
Schedule	--	-60.2	--	-60.2
Engineering	+15.5	--	--	+15.5
Estimating	+60.9	+957.2	--	+1018.1
Other	--	--	--	--
Support	--	+306.0	--	+306.0
Subtotal	+80.0	+3517.3	--	+3597.3
Current Changes				
Economic	--	+13.6	--	+13.6
Quantity	--	+189.7	--	+189.7
Schedule	--	-11.6	--	-11.6
Engineering	--	--	--	--
Estimating	+5.0	+22.9	--	+27.9
Other	--	--	--	--
Support	--	+18.2	--	+18.2
Subtotal	+5.0	+232.8	--	+237.8
Total Changes	+85.0	+3750.1	--	+3835.1
CE - Cost Variance	602.3	5839.5	--	6441.8
CE - Cost & Funding	602.3	5839.5	--	6441.8

Summary Base Year 1995 \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	490.3	1810.0	--	2300.3
Previous Changes				
Economic	--	--	--	--
Quantity	--	+1785.5	--	+1785.5
Schedule	--	-1.4	--	-1.4
Engineering	+12.5	--	--	+12.5
Estimating	+66.4	+790.8	--	+857.2
Other	--	--	--	--
Support	--	+241.7	--	+241.7
Subtotal	+78.9	+2816.6	--	+2895.5
Current Changes				
Economic	--	--	--	--
Quantity	--	+120.6	--	+120.6
Schedule	--	-1.1	--	-1.1
Engineering	--	--	--	--
Estimating	+3.5	+15.0	--	+18.5
Other	--	--	--	--
Support	--	+11.4	--	+11.4
Subtotal	+3.5	+145.9	--	+149.4
Total Changes	+82.4	+2962.5	--	+3044.9
CE - Cost Variance	572.7	4772.5	--	5345.2
CE - Cost & Funding	572.7	4772.5	--	5345.2

Previous Estimate: December 2011

RDT&E	\$M	
Current Change Explanations	Base Year	Then Year
New Start RDT&E funding received for the 5,000 pound JDAM demonstration in FY 2014 and FY 2015. RDT&E funding had not been received since FY 2007. (Estimating)	+3.5	+5.0
RDT&E Subtotal	+3.5	+5.0

Procurement	\$M	
Current Change Explanations	Base Year	Then Year
Revised escalation indices. (Economic)	N/A	+13.6
Total Quantity variance resulting from an increase of 9015 JDAM Tailkits from 172815 to 181830 (Air Force). (Subtotal)	+180.6	+276.8
Quantity variance resulting from an increase of 9015 JDAM Tailkits from 172815 to 181830 (Air Force). (Quantity) (QR)	(+163.7)	(+251.0)
Allocation to Schedule resulting from Quantity change. (Schedule) (QR)	(-1.1)	(-1.8)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(+18.0)	(+27.6)
Additional Quantity variance resulting from an increase of 9015 JDAM Tailkits. (Significant quantity increase in FY 2014 resulted in a much lower cost per unit. The cost curve didn't account for this decrease and overestimated the total quantity variance) (Air Force). (Quantity) (QR)	-43.1	-61.3
Acceleration of procurement buy profile (Air Force). (Schedule)	0.0	-9.8
Adjustment for current and prior escalation. (Estimating)	-2.1	-3.2
Decrease due to Air Force efficiency initiatives. (Estimating)	-0.9	-1.5
Adjustment for current and prior escalation. (Support)	-0.3	-0.3
Increase in Other Support is due to program extension into FY 2018 (Air Force). (Support)	+11.7	+18.5
Procurement Subtotal	+145.9	+232.8

(QR) Quantity Related

Contracts

Appropriation: Procurement

Contract Name	JDAM Lot 13
Contractor	Boeing
Contractor Location	St. Louis, MO 63166
Contract Number, Type	FA8681-09-C-0057, FFP
Award Date	December 05, 2008
Definitization Date	December 05, 2008

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
106.9	N/A	4372	109.8	N/A	4437	109.8	109.8

Cost And Schedule Variance Explanations

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

Contract Comments

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to an increase in production incentive and to convert BLU-109 Guidance Kits to MK-84 Guidance Kits for the United States Navy.

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

Appropriation: Procurement

Contract Name	JDAM Lot 14
Contractor	Boeing
Contractor Location	St. Louis, MO 63166
Contract Number, Type	FA8681-10-C-0072, FFP
Award Date	October 26, 2009
Definitization Date	October 26, 2009

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
72.0	N/A	2925	231.6	N/A	10129	231.6	231.6

Cost And Schedule Variance Explanations

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

Contract Comments

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the purchase of additional Guidance Kits and for production incentive.

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

Appropriation: Procurement

Contract Name	JDAM Lot 15
Contractor	Boeing
Contractor Location	St. Louis, MO 63166
Contract Number, Type	FA8681-11-C-0111, FFP
Award Date	January 14, 2011
Definitization Date	January 14, 2011

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
88.0	N/A	3448	204.7	N/A	8528	204.7	204.7

Cost And Schedule Variance Explanations

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

Contract Comments

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to Calendar Year 2011 initial purchase of 3,448 JDAM Guidance Kits and later increased to purchase additional JDAM Guidance Kits and for production incentive.

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

Appropriation: Procurement

Contract Name	JDAM Lot 16
Contractor	Boeing
Contractor Location	St. Louis, MO 63166
Contract Number, Type	FA8681-12-C-0160, FFP
Award Date	November 30, 2011
Definitization Date	November 30, 2011

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
125.9	N/A	4977	238.8	N/A	9861	238.8	238.8

Cost And Schedule Variance Explanations

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

Contract Comments

The difference between the Initial Contract Price Target and the Current Contract Price Target is due to the purchase of additional guidance kits and for production incentive.

Appropriation: Procurement

Contract Name	JDAM Lot 17
Contractor	Boeing
Contractor Location	St. Louis, MO 63166
Contract Number, Type	FA8681-13-C-0063, FFP
Award Date	December 21, 2012
Definitization Date	December 21, 2012

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
118.0	N/A	4501	118.0	N/A	4501	118.0	118.0

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

Deliveries To Date	Plan To Date	Actual To Date	Total Quantity	Percent Delivered
Development	804	804	804	100.00%
Production	206041	207809	241086	86.20%
Total Program Quantities Delivered	206845	208613	241890	86.24%

Expenditures and Appropriations (TY \$M)			
Total Acquisition Cost	6441.8	Years Appropriated	21
Expenditures To Date	5316.6	Percent Years Appropriated	80.77%
Percent Expended	82.53%	Appropriated to Date	5756.6
Total Funding Years	26	Percent Appropriated	89.36%

The above data is current as of 3/31/2013.

Expenditures include both United States Navy and United States Air Force.

Operating and Support Cost

JDAM

Assumptions and Ground Rules

Cost Estimate Reference:

Milestone III March 2001; update to cost estimate is in progress.

Sustainment Strategy:

The JDAM Operations & Support cost estimate was based on the Joint Munitions Operations & Support Model (JMOS) which was tailored to reflect specific JDAM program attributes. This model estimated Air Force and Navy O&S costs for the JDAM tailkits only. Assumptions used in the O&S cost estimate are as follows: The total JDAM inventory used was 88,569 tailkits. The warranty assumed was a 20 year extended warranty to cover all tailkit repairs except for government induced failures. In the model, one half of a percent of the total JDAM failures were assumed to be induced out-of-warranty failures. The Milestone III estimate included calculations for 35 years. This was an increase of five years from the previous Milestone estimate. The model also included new assumptions to calculate unwarranted failures for 15 years after the warranty period ended and to include demilitarization costs.

Antecedent Information:

None

Unitized O&S Costs BY1995 \$M		
Cost Element	JDAM Avg Annual Cost for Total Quantity	None (Antecedent) None
Unit-Level Manpower	0.4	0.0
Unit Operations	1.9	0.0
Maintenance	0.0	0.0
Sustaining Support	2.6	0.0
Continuing System Improvements	0.0	0.0
Indirect Support	0.3	0.0
Other	0.0	0.0
Total	5.2	--

Unitized Cost Comments:

In the 2011 Selected Acquisition Report, Operating and Support costs were incorrectly unitized (20 years instead of 35 years) and were incorrectly reported in dollar value (\$K instead of \$M). This report corrects those errors.

	Total O&S Cost \$M				
	Current Production APB Objective/Threshold		Current Estimate		
	JDAM		JDAM	None (Antecedent)	
Base Year	0.0	0.0	232.2	N/A	
Then Year	0.0	N/A	421.3	N/A	

Total O&S Costs Comments:

Total O&S Funding has been updated to reflect the table format in \$M. Total O&S = (\$5.2M x 35 years) + \$51.3M (Disposal Cost)

Disposal Costs

Total Disposal Cost is \$51.3M.