



Selected Acquisition Report (SAR)

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



JDAM

As of December 31, 2010

Defense Acquisition Management
Information Retrieval
(DAMIR)

UNCLASSIFIED

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Program Information

Designation And Nomenclature (Popular Name)

Joint Direct Attack Munition (JDAM)

DoD Component

Air Force

Joint Participants

Navy

Responsible Office

Responsible Office

Col Albert Anderson
 AAC/EBD
 205 West D Avenue, Suite 545, Bldg 350
 Eglin AFB, FL 32542-6807
Albert.Anderson@EGLIN.AF.MIL

Phone 850-883-1797
Fax --
DSN Phone 875-1797
DSN Fax --
Date Assigned May 17, 2010

References

SAR Baseline (Production Estimate)

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

Approved APB

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

Mission and Description

The Joint Direct Attack Munition (JDAM) program is a joint Air Force/Navy program with the Air Force as the lead acquisition service. Designated ACAT 1C, 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

Production

Completed Lot 13 (FY2009 funded) production of 4,437 JDAM tail kits ahead of schedule. The Lot 14 production option is comprised of FY2009 Overseas Contingency Operations (OCO), FY2010 OCO and FY2010 baseline budgets for a total quantity of 10,129. JDAM delivered the first 492 Lot 14 tail kits in December 2010.

Enhancements

JDAM Block Software

Air Combat Command/Directorate of Requirements authorized JDAM Block 08 Operational Flight Program (OFP) release for use on all JDAM-certified aircraft on July 20, 2010. Block 08 gives the Laser JDAM improved performance against maneuvering targets and greater ease of employment for the flight crew. Release of Block 08 also removes restrictions from use of the Integrated GPS Anti-jam System (IGAS) versions of the BLU-109 variant.

F-15E (Suite 6)/JDAM Integration - Universal Armament Interface (UAI)

Migration to the universal interface allows JDAM integration on aircraft that implemented the UAI interface without requiring a modification to the aircraft Operational Flight Program (OFP). Initial UAI fielding for F-15E was accomplished April 2010.

B-1B/JDAM Transfer Alignment Investigation

In early spring FY2009, B-1B units in the Area of Responsibility (AOR) reported higher-than-normal occurrences of degraded JDAM weapons. This anomaly was fixed by JDAM Block 08 software with no impact to weapon performance. Block 08 was fielded for B-1B on July 20, 2010.

B-1B/Laser JDAM (LJDAM)

B-1B executed Development Test (DT) to validate LJDAM capability against moving targets in November, 2010 by releasing three LJDAMs at Naval Weapons Center (NWC). B-1B also dropped three LJDAMs for Operational Test (OT) at Nellis AFB. These six releases were considered successful and validated B-1B/Laser capability.

B-52H Block Software (BSB-03)

On November 3, 2010, seven GBU-38's and two GBU-31's were successfully released during operational testing of B-52H software BSB-03 with JDAM Block 08 software. BSB-03 increased the B-52H GBU-38 load out from twelve to sixteen.

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

Threshold Breaches**APB Breaches**

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

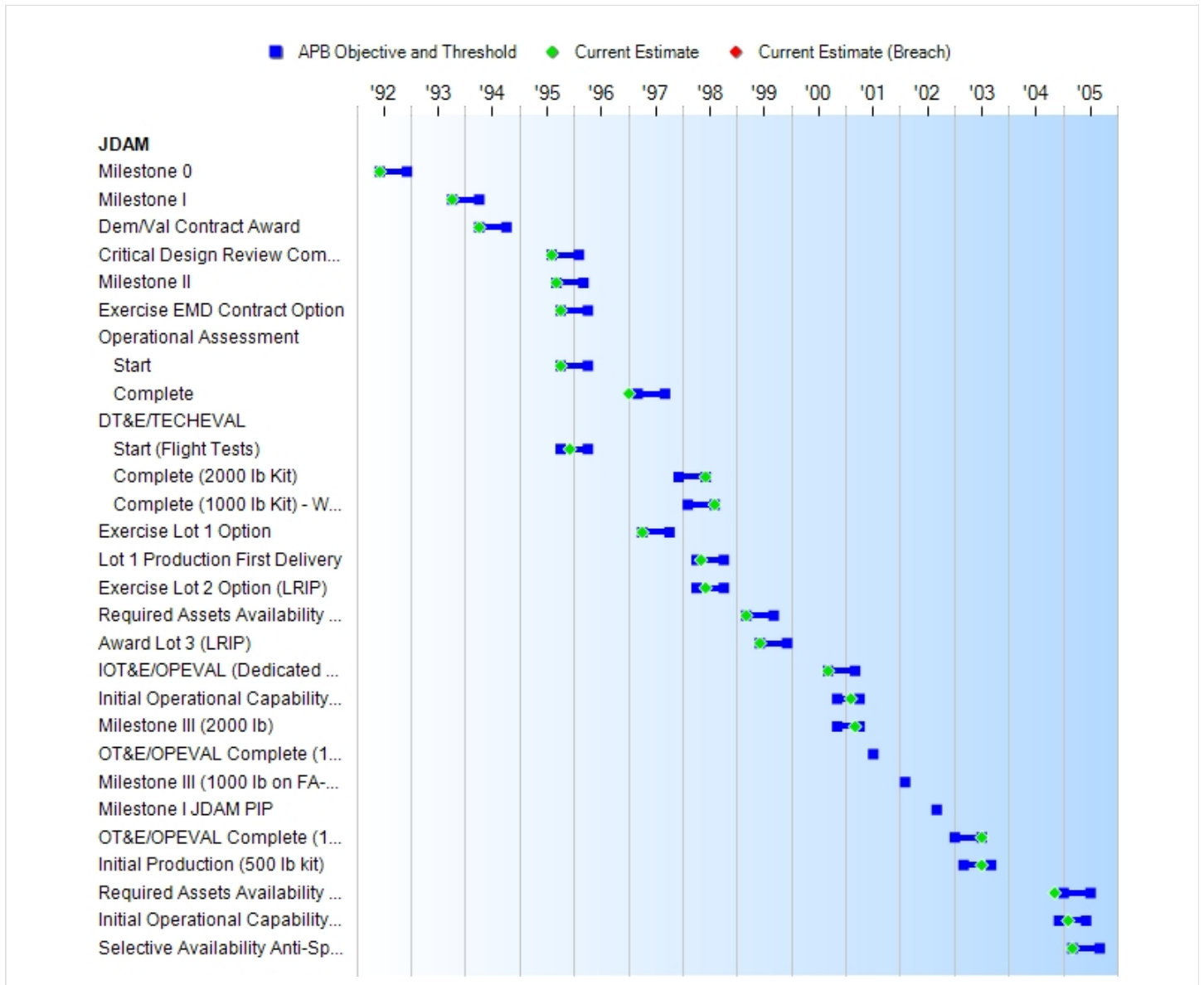
Nunn-McCurdy Breaches**Current UCR Baseline**

PAUC	None
APUC	None

Original UCR Baseline

PAUC	None
APUC	None

Schedule



Milestones	SAR Baseline Prod Est	Current APB Production		Current Estimate
		Objective/Threshold		
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
IOC - Initial Operational Capability
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
RAA - Required Assets Availability
SAASM - Selective Availability Anti Spoofing Module
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 (ORD) 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
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		(Sunk)

Procurement

APPN 1508	BA 01	PE 0204162N	(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	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDT&E	490.3	575.1	661.4	568.9	517.3	604.3	597.3
Procurement	1810.0	4307.5	4738.3	4396.5	2089.4	5026.5	5260.0
Flyaway	1673.4	--	--	4038.6	1935.5	--	4827.2
Recurring	1596.9	--	--	4038.6	1847.3	--	4827.2
Non Recurring	76.5	--	--	0.0	88.2	--	0.0
Support	136.6	--	--	357.9	153.9	--	432.8
Other Support	136.6	--	--	357.9	153.9	--	432.8
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	4965.4	2606.7	5630.8	5857.3

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E	630	778	804
Procurement	88435	221091	223070
Total	89065	221869	223874

JDAM is a field installed guidance kit using a global positioning system (GPS) aided by an inertial navigation system (INS).

Cost and Funding

Funding Summary

Appropriation and Quantity Summary FY2012 President's Budget / December 2010 SAR (TY\$ M)

Appropriation	Prior	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	To Complete	Total
RDT&E	597.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	597.3
Procurement	4485.5	252.6	110.7	100.0	102.1	103.9	105.2	0.0	5260.0
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 2012 Total	5082.8	252.6	110.7	100.0	102.1	103.9	105.2	0.0	5857.3
PB 2011 Total	5082.8	252.6	101.7	103.2	105.1	107.0	0.0	0.0	5752.4
Delta	0.0	0.0	9.0	-3.2	-3.0	-3.1	105.2	0.0	104.9

Due to a known database error, the FY2012 President's Budget incorrectly reported a quantity of 4,588 guidance kits. The correct quantity is 3,624 and will be corrected in future budget documents. The 2010 SAR reports the correct quantity.

Quantity	Undistributed	Prior	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016	To Complete	Total
Development	804	0	0	0	0	0	0	0	0	804
Production	0	197765	9331	3624	3250	3100	3000	3000	0	0223070
PB 2012 Total	804	197765	9331	3624	3250	3100	3000	3000	0	0223874
PB 2011 Total	804	197582	9331	3250	3250	3100	3000	0	0	0220317
Delta	0	183	0	374	0	0	0	3000	0	3557

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	--	--	--	--	--	--	23.7
1994	--	--	--	--	--	--	7.8
1995	--	--	--	--	--	--	22.7
1996	--	--	--	--	--	--	24.6
1997	--	--	--	--	--	--	21.1
1998	--	--	--	--	--	--	11.0
1999	--	--	--	--	--	--	5.7
2000	--	--	--	--	--	--	6.7
2001	--	--	--	--	--	--	21.0
2002	--	--	--	--	--	--	24.6
2003	--	--	--	--	--	--	13.8
2004	--	--	--	--	--	--	1.1
2005	--	--	--	--	--	--	0.4
2006	--	--	--	--	--	--	0.2
Subtotal	114	--	--	--	--	--	184.4

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
Subtotal	690	--	--	--	--	--	403.0

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	--	--	--	--	--	--	74.0
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
Subtotal	690	--	--	--	--	--	384.5

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	171	4.1	--	--	4.1	5.2	9.3
2010	--	--	--	--	--	2.0	2.0
Subtotal	58867	1201.1	--	--	1201.1	134.0	1335.1

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	17.7	--	--	17.7	14.3	32.0
2001	2325	45.4	--	--	45.4	14.0	59.4
2002	14551	260.4	--	--	260.4	9.0	269.4
2003	12280	213.4	--	--	213.4	7.5	220.9
2004	12422	209.9	--	--	209.9	7.1	217.0
2005	6876	119.3	--	--	119.3	7.2	126.5
2006	3288	59.0	--	--	59.0	7.4	66.4
2007	3324	58.7	--	--	58.7	10.1	68.8
2008	1422	27.7	--	--	27.7	5.6	33.3
2009	171	3.2	--	--	3.2	4.0	7.2
2010	--	--	--	--	--	1.5	1.5
Subtotal	58867	1037.6	--	--	1037.6	117.0	1154.6

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	6285	147.8	--	--	147.8	18.0	165.8
2010	7488	169.5	--	--	169.5	20.9	190.4
2011	9331	238.4	--	--	238.4	14.2	252.6
2012	3624	96.7	--	--	96.7	14.0	110.7
2013	3250	87.8	--	--	87.8	12.2	100.0
2014	3100	87.4	--	--	87.4	14.7	102.1
2015	3000	88.8	--	--	88.8	15.1	103.9
2016	3000	93.2	--	--	93.2	12.0	105.2
Subtotal	164203	3626.1	--	--	3626.1	298.8	3924.9

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	6.5	73.5
2000	8725	164.8	--	--	164.8	8.3	173.1
2001	8904	171.9	--	--	171.9	12.3	184.2
2002	14392	254.6	--	--	254.6	12.9	267.5
2003	23420	403.6	--	--	403.6	16.4	420.0
2004	20476	348.1	--	--	348.1	17.5	365.6
2005	22880	411.9	--	--	411.9	18.9	430.8
2006	8205	163.5	--	--	163.5	19.9	183.4
2007	7261	143.5	--	--	143.5	10.7	154.2
2008	4319	79.7	--	--	79.7	17.2	96.9
2009	6285	114.0	--	--	114.0	13.8	127.8
2010	7488	128.8	--	--	128.8	15.9	144.7
2011	9331	178.6	--	--	178.6	10.6	189.2
2012	3624	71.3	--	--	71.3	10.3	81.6
2013	3250	63.7	--	--	63.7	8.9	72.6
2014	3100	62.3	--	--	62.3	10.5	72.8
2015	3000	62.3	--	--	62.3	10.6	72.9
2016	3000	64.3	--	--	64.3	8.3	72.6
Subtotal	164203	3001.0	--	--	3001.0	240.9	3241.9

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 FY1997 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
Netherlands	12/4/2009		2.8	Fuzes
South Korea	11/30/2009		0.4	JDAM Integration on F-16
Malaysia	9/28/2009	50	5.8	JDAM Kits
Norway	6/10/2009	30	7.1	JDAM Kits & Support
Kuwait	3/31/2009	51	5.9	JDAM Kits & Support
United Arab Emirates	3/24/2009		1.4	R&R, Spares, Support
Japan	3/12/2009	120	9.2	JDAM Kits
Finland	2/25/2009	96	7.4	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		0.3	R&R, Spares and Support
Oman	2/2/2009		0.3	R&R, Spares, Support
Israel	1/12/2009	500	15.0	JDAM Kits
Israel	1/12/2009	1250	74.1	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	25.4	JDAM Kits
South Korea	2/19/2008		4.3	Fuzes, 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	23.1	JDAM Kits and 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	200	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	2.4	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		6.9	Integration
Turkey	12/28/2005	398	9.9	JDAM Kits
Greece	12/13/2005		3.3	Integration Support
Netherlands	10/7/2005	56	1.7	JDAM Kits

Turkey	4/26/2005		3.7	Integration Support
Australia	4/5/2005		0.3	Integration Support
Netherlands	3/1/2005	360	8.7	JDAM Kits and Support
Japan	1/25/2005	27	8.5	JDAM Kits, Integration and Test Assets
Belgium	12/22/2004	240	6.3	JDAM Kits
Israel	8/16/2004		17.6	F-15 Integration
Israel	7/14/2004	840	18.1	JDAM Kits and Integration
Portugal	4/15/2004	50	3.7	JDAM Kits and Support
Netherlands	2/23/2004	350	13.8	JDAM Kits and Support
Oman	2/15/2004	20	0.5	JDAM Kits
Israel	7/3/2003	1000	21.5	JDAM Kits
Poland	4/18/2003	272	13.7	JDAM Kits, Integration and Test Assets
Denmark	12/20/2002	274	11.9	JDAM Kits and 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	4.0	JDAM Kits
Belgium	2/11/2002		0.8	Fuzes
Chile	2/1/2002	12	2.5	JDAM Kits, Integration and Test Assets
Australia	11/28/2000		3.2	Fuzes
Australia	11/28/2000		6.8	Fuzes
United Arab Emirates	8/8/2000		1.3	Integration and Test Assets
Israel	2/9/2000	700	31.5	JDAM Kits and Integration

Nuclear Cost

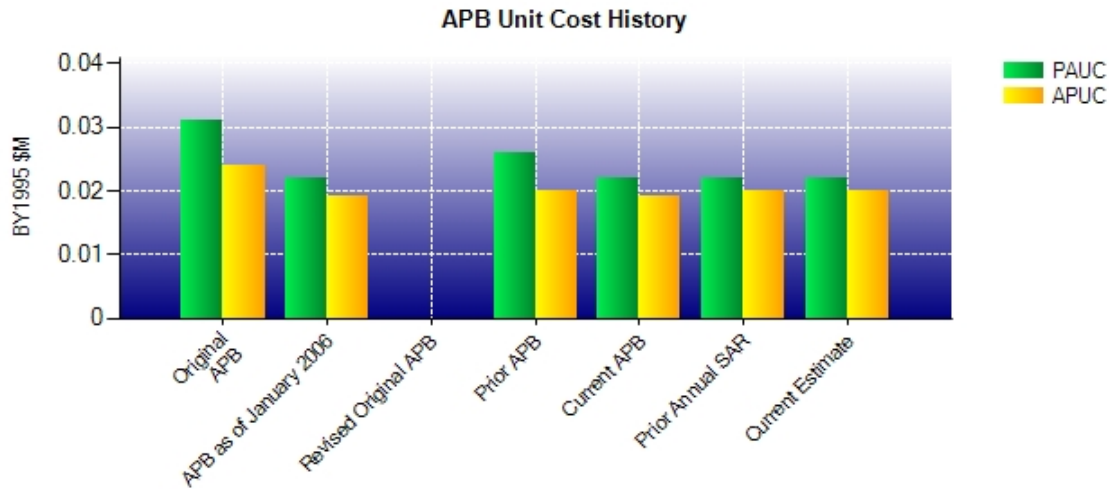
None.

Unit Cost**Unit Cost Report**

	BY1995 \$M	BY1995 \$M	
Unit Cost	Current UCR Baseline (OCT 2002 APB)	Current Estimate (DEC 2010 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	4882.6	4965.4	
Quantity	221869	223874	
Unit Cost	0.022	0.022	0.00
Average Procurement Unit Cost (APUC)			
Cost	4307.5	4396.5	
Quantity	221091	223070	
Unit Cost	0.019	0.020	+5.26

	BY1995 \$M	BY1995 \$M	
Unit Cost	Original UCR Baseline (SEP 1995 APB)	Current Estimate (DEC 2010 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	2720.4	4965.4	
Quantity	88126	223874	
Unit Cost	0.031	0.022	-29.03
Average Procurement Unit Cost (APUC)			
Cost	2090.6	4396.5	
Quantity	87496	223070	
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 2009	0.022	0.020	0.026	0.023
Current Estimate	DEC 2010	0.022	0.020	0.026	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	-0.008	0.000	0.000	0.004	0.000	0.001	-0.003	0.026

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	5857.3
Total Quantity	378	88126	89065	223874
Prog. Acq. Unit Cost (PAUC)	1.803	0.038	0.029	0.026

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**Cost Variance Summary**

Summary Then Year \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	517.3	2089.4	--	2606.7
Previous Changes				
Economic	+3.6	+61.0	--	+64.6
Quantity	--	+1907.7	--	+1907.7
Schedule	--	-47.2	--	-47.2
Engineering	+15.5	--	--	+15.5
Estimating	+60.9	+891.0	--	+951.9
Other	--	--	--	--
Support	--	+253.2	--	+253.2
Subtotal	+80.0	+3065.7	--	+3145.7
Current Changes				
Economic	+0.3	-6.8	--	-6.5
Quantity	--	+93.3	--	+93.3
Schedule	--	-1.3	--	-1.3
Engineering	--	--	--	--
Estimating	-0.3	-3.3	--	-3.6
Other	--	--	--	--
Support	--	+23.0	--	+23.0
Subtotal	--	+104.9	--	+104.9
Total Changes	+80.0	+3170.6	--	+3250.6
CE - Cost Variance	597.3	5260.0	--	5857.3
CE - Cost & Funding	597.3	5260.0	--	5857.3

Summary Base Year 1995 \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	490.3	1810.0	--	2300.3
Previous Changes				
Economic	--	--	--	--
Quantity	--	+1557.6	--	+1557.6
Schedule	--	-0.6	--	-0.6
Engineering	+12.5	--	--	+12.5
Estimating	+66.4	+746.1	--	+812.5
Other	--	--	--	--
Support	--	+204.7	--	+204.7
Subtotal	+78.9	+2507.8	--	+2586.7
Current Changes				
Economic	--	--	--	--
Quantity	--	+64.5	--	+64.5
Schedule	--	-0.2	--	-0.2
Engineering	--	--	--	--
Estimating	-0.3	-2.2	--	-2.5
Other	--	--	--	--
Support	--	+16.6	--	+16.6
Subtotal	-0.3	+78.7	--	+78.4
Total Changes	+78.6	+2586.5	--	+2665.1
CE - Cost Variance	568.9	4396.5	--	4965.4
CE - Cost & Funding	568.9	4396.5	--	4965.4

Previous Estimate: December 2009

RDT&E	\$M	
	Base Year	Then Year
Current Change Explanations		
Revised escalation indices. (Economic)	N/A	+0.3
Adjustment for current and prior escalation. (Estimating)	-0.3	-0.3
RDT&E Subtotal	-0.3	0.0

Procurement	\$M	
	Base Year	Then Year
Current Change Explanations		
Revised escalation indices. (Economic)	N/A	-6.8
Total Quantity variance resulting from an increase of 3557 Guidance Kits from 160646 to 164203 (Air Force). (Subtotal)	+68.4	+99.0
Quantity variance resulting from an increase of 3557 Guidance Kits from 160646 to 164203 (Air Force). (Quantity)	(+64.5)	(+93.3)
Allocation to Schedule resulting from Quantity change. (Schedule) (QR)	(-0.2)	(-0.3)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(+4.1)	(+6.0)
Acceleration of procurement buy profile (Air Force). (Schedule)	0.0	-1.0
Adjustment for current and prior escalation. (Estimating)	+5.7	+6.4
Decrease due to Air Force efficiency initiatives (Air Force). (Estimating)	-12.0	-15.7
Adjustment for current and prior escalation. (Support)	+0.7	+0.9
Increase in Other Support due to program extention (Air Force). (Support)	+15.9	+22.1
Procurement Subtotal	+78.7	+104.9

(QR) Quantity Related

Contracts

Appropriation: Procurement

Contract Name	JDAM Lot 12
Contractor	Boeing
Contractor Location	St. Louis, MO 63166
Contract Number, Type	FA8681-08-C-0001, FFP
Award Date	January 10, 2008
Definitization Date	May 17, 2010

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
115.6	N/A	4907	121.7	N/A	5119	121.7	121.7

Cost And Schedule Variance Explanations

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

Contract Comments

Lot 12 changed from \$120.8M to \$121.7M for delivery incentive. This contract is 100% complete and will no longer be reported.

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	November 18, 2010

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	109.1	N/A	4437	109.1	109.1

Cost And Schedule Variance Explanations

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

Contract Comments

Lot 13 increased from \$108.6M to \$109.1M for delivery incentive.

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	November 07, 2010

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	229.4	N/A	10129	229.4	229.4

Cost And Schedule Variance Explanations

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

Contract Comments

Lot 14 increased from \$72.0M to \$229.4M for purchase of additional guidance kits.

Deliveries and Expenditures

Deliveries To Date	Plan To Date	Actual To Date	Total Quantity	Percent Delivered
Development	804	804	804	100.00%
Production	185590	187365	223070	83.99%
Total Program Quantities Delivered	186394	188169	223874	84.05%

Expenditures and Appropriations (TY \$M)			
Total Acquisition Cost	5857.3	Years Appropriated	19
Expenditures To Date	4767.3	Percent Years Appropriated	79.17%
Percent Expended	81.39%	Appropriated to Date	5335.4
Total Funding Years	24	Percent Appropriated	91.09%

The December 2009 SAR deliveries inadvertently included quantities for Defense Emergency Relief Funds (DERF) causing the deliveries to be overstated. The current SAR deliveries have been corrected.

Operating and Support Cost

Assumptions And Ground Rules

Operating and Support (O&S) costs include both Air Force and Navy dollars.

O&S costs reflect the Milestone III Defense Acquisition Board (DAB) program position of March 2001.

The JDAM O&S cost estimate was based on the Joint Munitions O&S (JMOS) Model. 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 repair 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.

There is no antecedent system for JDAM.

"Other" costs are demilitarization costs.

Costs BY1995 \$K		
Cost Element	JDAM Avg Annual Costs for 88,569 JDAM units	No Antecedent System
Unit-Level Manpower	4.1	--
Unit Operations	--	--
Maintenance	--	--
Sustaining Support	4.7	--
Continuing System Improvements	--	--
Indirect Support	--	--
Other	2.8	--
Total Unitized Cost (Base Year 1995 \$)	11.6	--

Total O&S Costs \$M	JDAM	No Antecedent
Base Year	232.6	--
Then Year	421.3	--