

UNCLASSIFIED

PE NUMBER: 0604618F
 PE TITLE: Joint Direct Attack Munition

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2008
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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)	PE NUMBER AND TITLE 0604618F Joint Direct Attack Munition
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Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	20.959	0.000	0.000	0.000	0.000	0.000	0.000	0.000	425.864
3890 Joint Direct Attack Munitions	20.959	0.000	0.000	0.000	0.000	0.000	0.000	0.000	425.864

(U) A. Mission Description and Budget Item Justification

The Joint Direct Attack Munition (JDAM) program is a joint Air Force/Navy program with the Air Force as the lead service. Designated ACAT 1C, this program upgrades the existing inventory of general purpose bombs (MK-84, BLU-109/B, MK-82 and MK-83) by integrating the bombs with a guidance kit consisting of 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-14B/D, F/A-18A+/C/D/E/F, F-15E, AV-8B and F-22A aircraft. Follow-on integrations with the F-117A, A/OA-10, MQ-9 and F-35 are in progress.

JDAM follows an Evolutionary Acquisition/Spiral Development approach, implementing operational enhancements such as new warhead integrations and improved accuracy and/or targeting technologies to meet emerging warfighter requirements. The Affordable Moving Surface Target Engagement (AMSTE) adds a datalink capability to JDAM to place moving maritime interdiction targets at risk in adverse weather using Joint Surveillance Target Attack Radar System (Joint STARS) tracking information to provide in-flight target updates for the weapon. The AMSTE effort began in FY07.

The AMSTE effort was terminated in Sep 07 to pursue joint network enabled weapons. The remaining AMSTE funds will be reprogrammed to other efforts.

The Laser Joint Direct Attack Munition (LJDAM) is a joint Air Force/Navy program that modifies the JDAM GBU 500lb weapons with a laser seeker and necessary hardware. This modification will provide the capability to pursue moving targets from USAF and USN fighters and/or bombers.

This program is funded in Budget Activity 5, SDD, due to its focus on devising an affordable design and manufacturing process.

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	15.392		
(U) Current PBR/President's Budget	20.959		
(U) Total Adjustments	5.567		
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings	6.000		
SBIR/STTR Transfer	-0.433		
(U) <u>Significant Program Changes:</u>			

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FY07: \$6M reprogrammed to fund the test efforts of Laser JDAM.

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BUDGET ACTIVITY 05 System Development and Demonstration (SDD)							PE NUMBER AND TITLE 0604618F Joint Direct Attack Munition		PROJECT NUMBER AND TITLE 3890 Joint Direct Attack Munitions	
Cost (\$ in Millions)	FY 2007 Actual	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	Cost to Complete	Total	
3890 Joint Direct Attack Munitions	20.959	0.000	0.000	0.000	0.000	0.000	0.000	0.000	425.864	
Quantity of RDT&E Articles	0	0	0	0	0	0	0			

(U) A. Mission Description and Budget Item Justification

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This program is funded in Budget Activity 5, SDD, due to its focus on devising an affordable design and manufacturing process.

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Perform development and testing of the JDAM Affordable Moving Surface Target Engagement (AMSTE) capability utilizing datalink infrastructure to meet emerging warfighter requirements.	14.809		
(U) Perform LJDAM test efforts.	6.000		
(U) Investigation to include, but not limited to, analysis and testing of future JDAM operational enhancements including those to enhance accuracy, increase flexibility and increase versatility.	0.150		
(U) Total Cost	20.959	0.000	0.000

(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) (U) Procurement of Ammunition, Air Force, JDAM,	194.003	112.021	105.719	106.088	109.272	106.859	108.698	0.000	3,318.191

Exhibit R-2a, RDT&E Project Justification

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(U) **C. Other Program Funding Summary (\$ in Millions)**

Appn. 3011, PE 0207583F

(U) (U) Procurement of

Ammunition, Air Force, Seek
Eagle, Appn. 3011, PE
0207590F 0.107

0.975

(U) (U) Warfighter Rapid

Acquisition Program (WRAP),
Appn 3600, PE 0203761F 6.000

6.000

(U) **D. Acquisition Strategy**

The contract for the AMSTE effort is planned as a Cost Plus Fixed Fee (CPFF) contract.

The Laser JDAM contract was sole sourced to Boeing due to the unusual and compelling urgency for Laser JDAM. It is a Firm Fixed Price contract.

Exhibit R-3, RDT&E Project Cost Analysis

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BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
05 System Development and Demonstration (SDD)				0604618F Joint Direct Attack Munition					3890 Joint Direct Attack Munitions			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2007 Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost to Complete	Total Cost	Target Value of Contract
(U) <u>Product Development</u>												
Prime Contractors Boeing and Lockheed Martin FY94/95 Only (Baseline JDAM, Mk-82, SAASM/Anti-Jam, Alternate Fuze)	C/CPAF/C PFF	Boeing (St Louis MO) and Lockheed Martin FY94/95 Only									0.000	
Prime Contractor (Boeing) -- AMSTE Development	CPFF	Boeing St Louis		10.456							10.456	
Joint Programmable Fuze/Misc	FPIF	Dayron/Kaman (Orlando, FL)									0.000	
Conceptual Studies	Various			0.150							0.150	
Subtotal Product Development			0.000	10.606		0.000		0.000		0.000	10.606	0.000
Remarks:	FY07 Funding begins AMSTE Development											
(U) <u>Support</u>												
Engineering Support	CPAF	Eglin AFB, FL									0.000	
TAMS Contractor	CPAF	Eglin AFB, FL									0.000	
Program Office	Various	Eglin AFB, FL		2.295							2.295	
Subtotal Support			0.000	2.295		0.000		0.000		0.000	2.295	0.000
Remarks:	TAMS contractor provides management and financial support to the System Program Office (SPO).											
(U) <u>Test & Evaluation</u>												
Aircraft SPO Support	Various	Eglin AFB, FL		0.274							0.274	
Flight Testing - AMSTE	Various	Eglin AFB, FL/Edwards AFB and China Lake, CA/Hill AFB, UT		3.984						0.000	3.984	
Flight Testing - Laser JDAM	Various	Eglin AFB, FL/Edwards AFB and China Lake, CA/Nellis AFB, NV		3.800						0.000	3.800	
Ground Testing	Various	Eglin AFB, FL/China Lake, CA									0.000	
JPF Wind Tunnel Testing	TBD	Arnold Engineering Development Center, TN									0.000	

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Project 3890

Exhibit R-3 (PE 0604618F)

Exhibit R-3, RDT&E Project Cost Analysis

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05 System Development and Demonstration (SDD)			0604618F Joint Direct Attack Munition				3890 Joint Direct Attack Munitions		
Government Furnished Equipment (GFE)	Various	N/A						0.000	
Subtotal Test & Evaluation			0.000	8.058	0.000	0.000	0.000	8.058	0.000
Remarks:									
(U) Total Cost			0.000	20.959	0.000	0.000	0.000	20.959	0.000

Exhibit R-4, RDT&E Schedule Profile

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8 Jan 08

LJDAM Joint Program Schedule

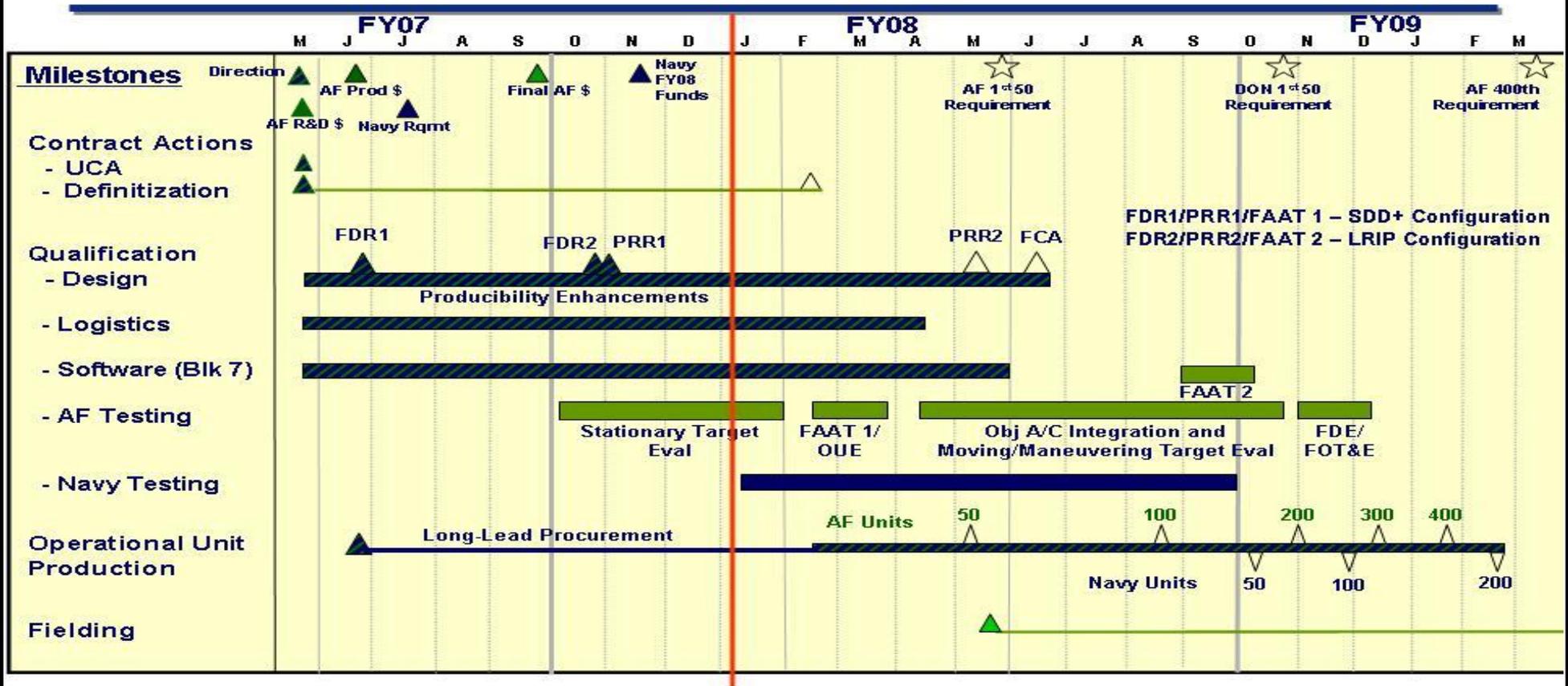


Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule Profile

FY 2007

FY 2008

FY 2009

(U) AMSTE Development Efforts

2Q

(U) Qual/DT/OT

4Q

(U) Laser JDAM Test Efforts

1-4Q