

Exhibit R-2, RDT&E Budget Item Justification	DATE February 2007
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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 2006 Actual	FY 2007 Estimate	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	0.000	15.392	0.000	0.000	0.000	0.000	0.000	0.000	0.000	425.864
3890 Joint Direct Attack Munitions	0.000	15.392	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-117, F/A-18A+/C/D/E/F, F-15E, AV-8B and F-22A aircraft. Follow-on integrations with the 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 will begin in FY07.

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 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
(U) Previous President's Budget	0.000	15.450		
(U) Current PBR/President's Budget	0.000	15.392		
(U) Total Adjustments	0.000			
(U) Congressional Program Reductions				
Congressional Rescissions			0.058	
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer				
(U) <u>Significant Program Changes:</u>				
N/A				

Exhibit R-2a, RDT&E Project Justification

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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 2006 Actual	FY 2007 Estimate	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	0.000	15.392	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	0			

(U) A. Mission Description and Budget Item Justification

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

	<u>FY 2006</u>	<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.	0.000	15.242		
(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.	0.000	0.150		
(U) Total Cost	0.000	15.392	0.000	0.000

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

	<u>FY 2006</u>	<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>Complete</u>							
(U) (U) Procurement of Ammunition, Air Force, JDAM, Appn. 3011, PE 0207583F	224.550	174.310	112.783	106.587	107.024	110.240	107.806	109.661	0.000	3,303.835
(U) (U) Procurement of Ammunition, Air Force, Seek	0.000	0.107	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.975

Exhibit R-2a, RDT&E Project Justification

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PROJECT NUMBER AND TITLE

3890 Joint Direct Attack Munitions

(U) C. Other Program Funding Summary (\$ in Millions)Eagle, Appn. 3011, PE
0207590F(U) D. Acquisition Strategy

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

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Exhibit R-3, RDT&E Project Cost Analysis	DATE February 2007
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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
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<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2006 Cost</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
<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	253.552									0.000	253.552	253.552
Prime Contractor (Boeing) -- AMSTE Development	CPFF	Boeing St Louis				10.889	Feb-07						10.889	11.100
Joint Programmable Fuze/Misc	FPIF	Dayron/Kaman (Orlando, FL)	8.229										8.229	8.229
Conceptual Studies	Various		22.428			0.150	Feb-07						22.578	22.578
Subtotal Product Development			284.209	0.000		11.039		0.000		0.000		0.000	295.248	295.459
Remarks:		FY07 Funding begins AMSTE Development												
<u>(U) Support</u>														
Engineering Support	CPAF	Eglin AFB, FL	15.938										15.938	15.938
TAMS Contractor	CPAF	Eglin AFB, FL	5.190										5.190	5.190
Program Office	Various	Eglin AFB, FL	19.345			0.095							19.440	19.345
Subtotal Support			40.473	0.000		0.095		0.000		0.000		0.000	40.568	40.473
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	13.905			0.274	Feb-07						14.179	15.905
Flight Testing	Various	Eglin AFB, FL/Edwards AFB and China Lake, CA/Hill AFB, UT	49.189			3.984	Feb-07						53.173	51.389
Ground Testing	Various	Eglin AFB, FL/China Lake, CA	14.983										14.983	14.983
JPF Wind Tunnel Testing	TBD	Arnold	3.320										3.320	3.320

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		Engineering Development Center, TN									
Government Furnished Equipment (GFE)	Various	N/A	4.335							4.335	4.335
Subtotal Test & Evaluation			85.732	0.000	4.258	0.000	0.000	0.000	0.000	89.990	89.932
Remarks:											
(U) Total Cost			410.414	0.000	15.392	0.000	0.000	0.000	0.000	425.806	425.864

Exhibit R-4, RDT&E Schedule Profile

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JDAM AMSTE Schedule

	FY06												FY07												FY08												FY09										
	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N
CONOPS/Rqmts/Test Plan	◆																																														
Direction/Funding/Rqmts													◆ FY07 BA																																		
NRE Boeing Contract													◆																																		
Qual/DT/OT																									QT DT DT/OT																						
JDAM Production Contract																																					◆										
																																					50/150/150/150										

NOTE: CONOPS/Rqmts/Test Plan is being funded under another R&D Program

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Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule Profile

FY 2006

FY 2007

FY 2008

FY 2009

(U) Development Contract Award

2Q

(U) Qual/DT/OT

4Q

1-2Q