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PE NUMBER: 0604618F

PE TITLE: Joint Direct Attack Munition

Exhibit R-2, RDT&E Budget Item Justification

DATE

February 2006

BUDGET ACTIVITY

05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE

0604618F Joint Direct Attack Munition

Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	0.000	0.000	15.450	0.000	0.000	0.000	0.000	425.864	425.864
3890 Joint Direct Attack Munitions	0.000	0.000	15.450	0.000	0.000	0.000	0.000	425.864	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 for moving surface targets in adverse weather to include maritime interdiction using Joint Surveillance/Target Attack Radar System (JSTARS) as a guide for the weapon. AMSTE adds moving targets and maritime interdiction capability to the JDAM target list. The AMSTE effort will begin in FY07 and production units will be delivered late FY08.

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 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	0.000	0.000	0.000
(U) Current PBR/President's Budget	0.000	0.000	15.450
(U) Total Adjustments	0.000	0.000	
(U) Congressional Program Reductions	0.000		
Congressional Rescissions	0.000		
Congressional Increases	0.000		
Reprogrammings	0.000		
SBIR/STTR Transfer	0.000		
(U) <u>Significant Program Changes:</u>			
FY07 - funds added for AMSTE			

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Exhibit R-2a, RDT&E Project Justification

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3890 Joint Direct Attack Munitions

Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
3890 Joint Direct Attack Munitions	0.000	0.000	15.450	0.000	0.000	0.000	0.000	425.864	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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(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</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	0.000	15.300
(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	0.000	0.150
(U) Total Cost	0.000	0.000	15.450

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

	<u>FY 2005</u>	<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>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, Appn. 3011, PE 0207583F	514.390	220.290	174.906	111.553	105.408	105.937	109.325	0.000	3,078.400
(U) (U) Procurement of Ammunition, Air Force, Seek Eagle, Appn. 3011, PE	0.000	0.000	0.107	0.000	0.000	0.000	0.000	0.000	0.975

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Exhibit R-2a, RDT&E Project Justification

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

0207590F

(U) D. Acquisition Strategy

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

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Exhibit R-3, RDT&E Project Cost Analysis

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(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract</u> <u>Method &</u> <u>Type</u>	<u>Performing</u> <u>Activity &</u> <u>Location</u>	<u>Total</u> <u>Prior to FY</u> <u>2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Cost</u>	<u>FY 2005</u> <u>Award</u> <u>Date</u>	<u>FY 2006</u> <u>Cost</u>	<u>FY 2006</u> <u>Award</u> <u>Date</u>	<u>FY 2007</u> <u>Cost</u>	<u>FY 2007</u> <u>Award</u> <u>Date</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>	<u>Target Value</u> <u>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						0.000	253.552	253.552
Prime Contractor (Boeing) -- AMSTE Development	CPAF	Boeing St Louis						11.100	Feb-07		11.100	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		0.000		11.250		0.000	295.459	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								19.345	19.345
Subtotal Support			40.473	0.000		0.000		0.000		0.000	40.473	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					2.000	Feb-07		15.905	15.905
Flight Testing	Various	Eglin AFB, FL/Edwards AFB and China Lake, CA/Hill AFB, UT	49.189					2.200	Feb-07		51.389	51.389
Ground Testing	Various	Eglin AFB, FL/China Lake, CA	14.983								14.983	14.983
JPF Wind Tunnel Testing	TBD	Arnold Engineering Development Center, TN	3.320								3.320	3.320
Government Furnished Equipment (GFE)	Various	N/A	4.335			0.000		4.200		0.000	4.335	4.335
Subtotal Test & Evaluation			85.732	0.000		0.000		4.200		0.000	89.932	89.932
Remarks:												
(U) Total Cost			410.414	0.000		0.000		15.450		0.000	425.864	425.864

Project 3890

R-1 Shopping List - Item No. 86-5 of 86-7

Exhibit R-3 (PE 0604618F)

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JDAM AMSTE Schedule

NOTE: CONOPS/Rqmts/Test Plan is being funding under another R&D program

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Exhibit R-4a, RDT&E Schedule Detail

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(U) Schedule ProfileFY 2005FY 2006FY 2007

(U) Development Contract Award

2Q

(U) Qual/DT/OT

4Q