

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE February 2003		
BUDGET ACTIVITY 05 - System Development and Demonstration (SDD)					PE NUMBER AND TITLE 0604618F Joint Direct Attack Munition					PROJECT 3890	
COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost	
3890 Joint Direct Attack Munitions	26,279	16,244	34,061	0	0	0	0	0	0	407,714	
Quantity of RDT&E Articles	88	0	0	0	0	0	0	0	0	605	
<p>*Quantity of RDT&E Articles reflect assets by delivery year and cannot be reconciled to the dollar amounts (incremental funding) shown in any one year.</p> <p>(U) <u>A. Mission Description</u></p> <p>The Joint Direct Attack Munition (JDAM) 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, MK-83/BLU-110 and MK-82/BLU-111) 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-15E, F-16C/D, F-14B, F-14D, F/A-18C/D and F/A-18E/F aircraft. Follow-on integration will be on the F/A-22 and other aircraft. JDAM Low Rate Initial Production (LRIP) began in FY97 and Full Rate Production (MK-84 and BLU-109) began in FY01. A development effort to integrate the JDAM guidance kits on the MK-82 began in September 2000 with production to start in FY03. JDAM GPS Selective Availability Anti-Spoofing Module (SAASM) integration and anti-jam integration efforts will begin in FY03. A redesign effort for the Joint Programmable Fuze (JPF) began Mar 01 to improve high altitude bomber capability. This fuze is a multi-function unitary fuze developed for JDAM and other conventional inventory weapons.</p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <p>(U) \$0 Accomplishment/Planned Program</p> <p>(U) \$15,085 Complete development effort for Mk-82 JDAM and JPF redesign.</p> <p>(U) \$8,621 Perform captive carry and Development Test (DT) flight testing on Mk-82 JDAM and perform JPF testing.</p> <p>(U) \$2,573 Provide support and management tasks to coordinate the program activities of the prime contractor and various test and aircraft organizations.</p> <p>(U) \$26,279 Total</p> <p>(U) <u>FY 2003 (\$ in Thousands)</u></p> <p>(U) \$0 Accomplishment/Planned Program</p> <p>(U) \$14,772 JDAM software and hardware development to support SAASM integration effort and anti-jam development and integration.</p> <p>(U) \$972 Perform test effort on JDAM with integrated SAASM and anti-jam capabilities for the JDAM receiver.</p> <p>(U) \$500 Provide support and management tasks to coordinate the program activities of the prime contractor and various organizations.</p> <p>(U) \$16,244 Total</p>											
<div style="display: flex; justify-content: space-between;"> Project 3890 Page 1 of 5 Pages Exhibit R-2 (PE 0604618F) </div>											

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2003

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

05 - System Development and Demonstration (SDD)**0604618F Joint Direct Attack Munition****3890**(U) **A. Mission Description Continued**(U) **FY 2004 (\$ in Thousands)**

(U)	\$0	Accomplishment/Planned Program
(U)	\$25,228	JDAM software and hardware development to support SAASM integration effort and anti-jam development and integration
(U)	\$7,265	Perform test effort on JDAM with integrated SAASM and anti-jam capabilities for the JDAM receiver.
(U)	\$1,568	Provide support and management tasks to coordinate the program activities of the prime contractor and various organizations.
(U)	\$34,061	Total

(U) **B. Budget Activity Justification**

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

(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Total Cost</u>
(U) Previous President's Budget	27,679	16,594	34,816	410,219
(U) Appropriated Value	27,956	16,594		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-277	-175		-146
b. Small Business Innovative Research	-901			-901
c. Omnibus or Other Above Threshold Reprogram		-175		
d. Below Threshold Reprogram	-371			-371
e. Rescissions	-128			
(U) Adjustments to Budget Years Since FY 2003 PBR			-755	-1,087
(U) Current Budget Submit/FY 2004 PBR	26,279	16,244	34,061	407,714

(U) **Significant Program Changes:**

Project 3890

Page 2 of 5 Pages

Exhibit R-2 (PE 0604618F)

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2003

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

05 - System Development and Demonstration (SDD)**0604618F Joint Direct Attack Munition****3890****(U) D. Other Program Funding Summary (\$ in Thousands)**

	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</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>Estimate</u>	<u>Complete</u>	
(U) (U) Procurement of Ammunition, Air Force, P-1 Line Item JDAM (PE 27583F)	300,825	476,800	427,565	523,280	514,027	377,174	135,793	134,847		2,890,311
(U) (U) Seek Eagle (PE 27590F)	147	297	144	0	0	103			0	691

In FY02, JDAM AF received \$253.3M as part of the Defense Emergency Response Fund (DERF). Funding was used to buy 6,348 JDAM kits in support of OPERATION ENDURING FREEDOM. This funding also accelerated the delivery of Lot 5. This funding is not reflected in the FY02 program total.

(U) E. Acquisition Strategy

The contract for the JDAM Mk-82 effort is Cost Plus Award Fee (CPAF). The JPF effort is a fixed price incentive fee (FPIF) contract. The SAASM/Anti-Jam effort will be awarded as a Cost Plus Award Fee (CPAF) contract. Procurement Lots 1-6 have been awarded and Lots 7-11 have a Production Price Commitment Curve agreement.

(U) F. Schedule Profile

	<u>FY 2002</u>				<u>FY 2003</u>				<u>FY 2004</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) MK-82 CDR	*											
(U) MK-82 DT Flight Test Start		*										
(U) MK-82 Design/Develop/Qual Finish								X				
(U) SAASM Integration Start						X						
(U) Anti-Jam Integration Start						X						
(U) MK-82 DT Flight Test Finish								X				
(U) JPF Redesign/Testing Finish						X						
(U) SAASM/Anti-Jam Flight Test Start												X

X - Planned Event
* - Completed Event

Project 3890

Page 3 of 5 Pages

Exhibit R-2 (PE 0604618F)

UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2003		
BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT	
05 - System Development and Demonstration (SDD)				0604618F Joint Direct Attack Munition					3890	
(U) <u>A. Project Cost Breakdown (\$ in Thousands)</u>										
							<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	
(U)	Primary Hardware Development						15,085	14,772	25,228	
(U)	Test & Evaluation						8,621	500	7,265	
(U)	Engineering & Prog Mgt Support						2,573	972	1,568	
(U)	Total						26,279	16,244	34,061	
(U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u>										
(U) <u>Performing Organizations:</u>										
<u>Contractor or</u>	<u>Contract</u>									
<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>						
<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Organizations</u>										
Prime Contractors Boeing (St C/CPAF		Oct-95	238,631	238,631	195,115	9,408	14,772	25,228	0	244,523
Louis, MO) Lockheed Martin										
FY94/95 Only										
Dayron/Kaman/Misc (JPF)	FPIF	Dec-01	7,868	7,868	2,191	5,677				7,868
Conceptual Studies	Various	Various	N/A	N/A	22,428				0	22,428
<u>Support and Management Organizations</u>										
Engineering Spt.	CPAF	Oct 96	15,485	13,341	13,341	1,259	300	585	0	15,485
TAMS Contractor	CPAF	Oct 96	5,068	4,632	4,632	337		100	0	5,069
Program Office	Various	Various	N/A	N/A	17,891	977	672	883	0	20,423
<u>Test and Evaluation Organizations</u>										
Aircraft SPO/PMA Supt.	Various	Various	N/A	N/A	13,649	111			0	13,760
Flight Testing	Various	Various	N/A	N/A	40,058	8,395	500	7,265	0	56,218
Ground Testing	Various	Various	N/A	N/A	14,281				0	14,281
JPF Wind Tunnel Testing	TBD	TBD	N/A	N/A	3,209	115				3,324
GFE	Various	Various	N/A	N/A	4,335					4,335
Project 3890										
				Page 4 of 5 Pages				Exhibit R-3 (PE 0604618F)		

UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)						DATE February 2003	
BUDGET ACTIVITY				PE NUMBER AND TITLE		PROJECT	
05 - System Development and Demonstration (SDD)				0604618F Joint Direct Attack Munition		3890	
(U) Government Furnished Property:							
	<u>Contract</u>						
	<u>Method/Type</u>	<u>Award or</u>					
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>to FY 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>
<u>Product Development Property</u>							
Not Applicable							
<u>Support and Management Property</u>							
<u>Test and Evaluation Property</u>							
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>
<u>Subtotals</u>				<u>to FY 2002</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>
Subtotal Product Development				219,734	15,085	14,772	25,228
Subtotal Support and Management				35,864	2,573	972	1,568
Subtotal Test and Evaluation				75,532	8,621	500	7,265
Total Project				331,130	26,279	16,244	34,061
							<u>Budget to</u>
							<u>Complete</u>
							<u>Total</u>
							<u>Program</u>

Project 3890

Page 5 of 5 Pages

Exhibit R-3 (PE 0604618F)