

UNCLASSIFIED

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

DATE

June 2001

BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604329F Small Diameter Bomb

PROJECT

5006

COST (\$ in Thousands)	FY 2000 Actual	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
5006 Small Diameter Bomb	0	11,889	40,000	0	0	0	0	0	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

The FY03-FY07 budget numbers do not reflect the DoD strategic review results.

(U) **A. Mission Description**

Small Diameter Bomb (SDB) is an Air Force ACAT 1C program providing an affordable solution to a variety of needs. SDB's ultimate objective to increase kills per sortie on current and future aircraft platforms addresses the following warfighter requirements: multiple kills per pass; multiple ordnance carriage; adverse weather, precision munitions capability; capability against hardened targets; reduced munitions footprint; increased weapons effectiveness against area targets; real-time target location and/or kill capability versus small/mobile targets; reduced susceptibility to camouflage, concealment and deception (CCD); minimized potential for collateral damage; and reduced susceptibility of munitions to countermeasures. Threshold aircraft for Phase I is the F-15E, with the F-16 and B-1 as the Phase 2 threshold platforms. Objective aircraft include the B-2, A-10, Joint Strike Fighter (JSF), F-22, F117, B-52, and the Unmanned Combat Aerial Vehicle (UCAV). SDB is currently in Pre-Component Advanced Development (CAD) with Milestone A in August, 2001.

(U) **FY 2000 (\$ in Thousands)**

(U) \$0 No Activity

(U) \$0 Total

(U) **FY 2001 (\$ in Thousands)**

(U) \$11,200 Start Component Advanced Development (CAD). CAD includes such tasks as design definition for SDB and carriage system, detailed program plan and proposal development, risk reduction efforts and demonstrated ability to meet key performance parameters (KPPs).

(U) \$289 Establish program office support.

(U) \$400 Establish mission support.

(U) \$11,889 Total

Project 5006

Page 1 of 5 Pages

Exhibit R-2 (PE 0604329F)

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)		DATE June 2001																																																																		
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development	PE NUMBER AND TITLE 0604329F Small Diameter Bomb		PROJECT 5006																																																																	
<p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">(U) \$36,312</td> <td>Continue Component Advanced Development (CAD). CAD includes such tasks as design definition for SDB and carriage system, detailed program plan and proposal development, risk reduction efforts and demonstrated ability to meet key performance parameters (KPPs).</td> </tr> <tr> <td>(U) \$105</td> <td>Continue aircraft integration.</td> </tr> <tr> <td>(U) \$2,890</td> <td>Continue program office support.</td> </tr> <tr> <td>(U) \$693</td> <td>Continue mission support.</td> </tr> <tr> <td>(U) \$40,000</td> <td>Total</td> </tr> </table> <p>(U) <u>B. Budget Activity Justification</u></p> <p>This program is budget activity 5 - Engineering and Manufacturing Development, providing funding for the development of the Small Diameter Bomb.</p> <p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 55%;"></th> <th style="width: 10%; text-align: center;"><u>FY 2000</u></th> <th style="width: 10%; text-align: center;"><u>FY 2001</u></th> <th style="width: 10%; text-align: center;"><u>FY 2002</u></th> <th style="width: 15%; text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget (FY 2001 PBR)</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>(U) Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> a. Congressional/General Reductions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> b. Small Business Innovative Research</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> c. Omnibus or Other Above Threshold Reprogram</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> d. Below Threshold Reprogram</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> e. Rescissions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2001 PBR</td> <td style="text-align: center;">0</td> <td style="text-align: center;">11,889</td> <td style="text-align: center;">40,000</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td>(U) Current Budget Submit/FY 2002 PBR</td> <td style="text-align: center;">0</td> <td style="text-align: center;">11,889</td> <td style="text-align: center;">40,000</td> <td style="text-align: center;">TBD</td> </tr> </tbody> </table> <p>(U) <u>Significant Program Changes:</u></p> <p>FY01: SDB originally received a Congressional add of \$12 million 'to accelerate development of a 250-pound MMC variant' in PE 604602F, Armament Ordnance (ARMORD).</p> <p>FY02: AF realignment of funds to continue Component Advanced Development.</p>				(U) \$36,312	Continue Component Advanced Development (CAD). CAD includes such tasks as design definition for SDB and carriage system, detailed program plan and proposal development, risk reduction efforts and demonstrated ability to meet key performance parameters (KPPs).	(U) \$105	Continue aircraft integration.	(U) \$2,890	Continue program office support.	(U) \$693	Continue mission support.	(U) \$40,000	Total		<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>	(U) Previous President's Budget (FY 2001 PBR)	0	0	0	0	(U) Appropriated Value					(U) Adjustments to Appropriated Value					a. Congressional/General Reductions					b. Small Business Innovative Research					c. Omnibus or Other Above Threshold Reprogram					d. Below Threshold Reprogram					e. Rescissions					(U) Adjustments to Budget Years Since FY 2001 PBR	0	11,889	40,000	TBD	(U) Current Budget Submit/FY 2002 PBR	0	11,889	40,000	TBD
(U) \$36,312	Continue Component Advanced Development (CAD). CAD includes such tasks as design definition for SDB and carriage system, detailed program plan and proposal development, risk reduction efforts and demonstrated ability to meet key performance parameters (KPPs).																																																																			
(U) \$105	Continue aircraft integration.																																																																			
(U) \$2,890	Continue program office support.																																																																			
(U) \$693	Continue mission support.																																																																			
(U) \$40,000	Total																																																																			
	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Total Cost</u>																																																																
(U) Previous President's Budget (FY 2001 PBR)	0	0	0	0																																																																
(U) Appropriated Value																																																																				
(U) Adjustments to Appropriated Value																																																																				
a. Congressional/General Reductions																																																																				
b. Small Business Innovative Research																																																																				
c. Omnibus or Other Above Threshold Reprogram																																																																				
d. Below Threshold Reprogram																																																																				
e. Rescissions																																																																				
(U) Adjustments to Budget Years Since FY 2001 PBR	0	11,889	40,000	TBD																																																																
(U) Current Budget Submit/FY 2002 PBR	0	11,889	40,000	TBD																																																																
<div style="display: flex; justify-content: space-between;"> Project 5006 Page 2 of 5 Pages Exhibit R-2 (PE 0604329F) </div>																																																																				

UNCLASSIFIED

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

DATE

June 2001

BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604329F Small Diameter Bomb

PROJECT

5006(U) **D. Other Program Funding Summary (\$ in Thousands)**

	<u>FY 2000</u>	<u>FY 2001</u>	<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>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) AF RDT&E	9,309									9,309

The FY00 funding included in the AF RDT&E line reflects SDB funding which is included in PE 604602F, Armament Ordnance (ARMORD) designated as Miniaturized Munitions Capability (MMC). The remaining FY01-05 funding included in the AF RDT&E line is Lab funding to support SDB and is included in PE 603601F.

(U) **E. Acquisition Strategy**

All major contracts within this Program Element will be awarded through full and open competition. Two contractors will be selected for the 24 month CAD phase using Firm Fixed Price contracts. Downselect to one contractor will occur prior to System Development and Demonstration (SDD). There will be two SDDs; a fixed target variant and a mobile target variant. SDD will be a Cost Plus Award Fee contract. This approach allows higher risk, less mature technologies to be fielded in an evolutionary fashion. Leverage of Air Force Research Laboratory (AFRL) funding and resources will support the CAD phase.

The government is buying the SDB based on a contractor-developed, government-approved System Performance Specification (SPS) which will become contractually binding at downselect. The contractor will assume Total System Performance Responsibility (TSPR) as defined in the SPS and warrants system performance for 20 years. Accordingly, the contractor is responsible not only for the design of the missile system, but also for planning and executing the Development Test and Evaluation (DT&E) program to verify the system performance. In its role as facilitator and advisor to the contractor, the government formally arranges and funds the use of government flight test support for DT&E. Although funded by the government, flight test support funds are part of the negotiated commitment between the contractor and the government ensuring the contractor is able to execute the DT&E program according to the scope of the SDD contract.

(U) **F. Schedule Profile**

	<u>FY 2000</u>				<u>FY 2001</u>				<u>FY 2002</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Milestone A												
(U) CAD Contract Award								X				
(U) Milestone B								X				
(U) SDD Contract Award												
X - Planned Event												
* - Completed Event												

Project 5006

Page 3 of 5 Pages

Exhibit R-2 (PE 0604329F)

UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE		June 2001	
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT	
05 - Engineering and Manufacturing Development					0604329F Small Diameter Bomb					5006	
(U) A. Project Cost Breakdown (\$ in Thousands)											
					FY 2000		FY 2001		FY 2002		
(U)	Major Contracts						11,200		36,312		
(U)	Assoc Contracts						0		105		
(U)	Support Contracts						289		2,890		
(U)	In-House						400		693		
(U)	Test Support						0		0		
(U)	Total						11,889		40,000		
FY00 dollars found in PE 604602F.											
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)											
(U) Performing Organizations:											
<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>Activity</u>		<u>Vehicle</u>		<u>Date</u>		<u>EAC</u>		<u>EAC</u>		<u>to FY 2000</u>	
								<u>Budget</u>		<u>Budget</u>	
								<u>FY 2000</u>		<u>FY 2001</u>	
								<u>FY 2002</u>		<u>Budget to</u>	
								<u>Complete</u>		<u>Total</u>	
								<u>Program</u>			
<u>Product Development Organizations</u>											
CAD Ktr 1 Contract		FFP		Sep-01		43,753		43,753		0	
CAD Ktr 2 Contract		FFP		Sep-01		43,753		43,753		0	
SDD 1 Contract		CPAF		Oct-03		112,876		112,876		0	
SDD 2 Contract		CPAF		Oct-05		218,726		218,726		0	
<u>Support and Management Organizations</u>											
F-22 SPO		PO		Aug 99		N/A		N/A		0	
F-15 SPO		PO		Oct-01		N/A		N/A		0	
Other A/C SPOs		PO		Various		N/A		N/A		0	
Sverdrup Inc.		C/CPAF		Jan-96,		N/A		N/A		0	
				Jun-01						289	
Other		Misc		Various		N/A		N/A		400	
<u>Test and Evaluation Organizations</u>											
46 TW		PO		Mar-00		N/A		N/A		0	
Project 5006											
Page 4 of 5 Pages											
Exhibit R-3 (PE 0604329F)											

UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE		
							June 2001		
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT		
05 - Engineering and Manufacturing Development				0604329F Small Diameter Bomb			5006		
(U) <u>Government Furnished Property:</u>									
	<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>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Property</u>									
Not Applicable									
<u>Support and Management Property</u>									
Not Applicable									
<u>Test and Evaluation Property</u>									
Not Applicable									
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>				<u>to FY 2000</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development				0	0	11,200	36,312	TBD	TBD
Subtotal Support and Management				0	0	689	3,688	TBD	TBD
Subtotal Test and Evaluation				0	0	0	0	TBD	TBD
Total Project				0	0	11,889	40,000	TBD	TBD
FY01: SDB originally received a Congressional add of \$12 million 'to accelerate development of a 250-pound MMC variant' in PE 604602F, Armament Ordnance (ARMORD).									

Project 5006

Page 5 of 5 Pages

Exhibit R-3 (PE 0604329F)