

CLASSIFICATION:

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Small Diameter Bomb (SDB) is a precision guided munition development program to provide an affordable solution to attack designated targets. 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); minimize potential for collateral damage; and reduced susceptibility of munitions to countermeasures. SDB is a Pre-MDAP (Major Defense Acquisition Program), ACAT1D program with the Air Force as the lead service. Navy funding encompasses pre-integration risk reduction testing during Increment II.

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2005	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-05		PROGRAM ELEMENT NUMBER AND NAME 0604329N Small Diameter Bomb (SDB)			PROJECT NUMBER AND NAME 3072 Small Diameter Bomb			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		9.843	9.965	9.958				
RDT&E Articles Qty		7						
<p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</p> <p>Small Diameter Bomb (SDB) is a precision guided munition development program to provide an affordable solution to attack designated targets. 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); minimize potential for collateral damage; and reduced susceptibility of munitions to countermeasures. SDB is a Pre-MDAP (Major Defense Acquisition Program), ACAT1D program with the Air Force as the lead service. Navy funding encompasses pre-integration risk reduction testing during Increment II.</p> <p>Test articles include one (1) SDB Rack and (6) SDBs for pre-integration risk reduction efforts.</p>								

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Exhibit R-2, RDTE Budget Item Justification
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B. Accomplishments/Planned Program																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 30%;"></th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th><th style="width: 15%;">FY 06</th><th style="width: 15%;">FY 07</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td></td><td style="text-align: center;">9.843</td><td style="text-align: center;">9.965</td><td style="text-align: center;">9.958</td></tr><tr><td>RDT&E Articles Quantity *</td><td></td><td style="text-align: center;">7</td><td></td><td></td></tr></tbody></table> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">FY05 - FY 07 funding is to perform risk reduction pre-integration testing during Increment II to include Seeker and Other Trade Studies, Joint Strike Fighter (JSF) Fit checks, Shipboard Suitability, Electromagnetic Environmental Effects, System Safety, Climatic/Dynamic Environments, Structures/Loads/Materials, Separations Wind Tunnel, and Catapult/Arrested Landings testing. *Test articles include (1) one Small Diameter Bomb Rack and (6) six Small Diameter Bombs for pre-integration risk reduction efforts.</div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"><thead><tr><th style="width: 30%;"></th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th><th style="width: 15%;">FY 06</th><th style="width: 15%;">FY 07</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td></td><td></td><td></td><td></td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></tbody></table> <div style="border: 1px solid black; height: 70px; margin-top: 20px;"></div> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"><thead><tr><th style="width: 30%;"></th><th style="width: 15%;">FY 04</th><th style="width: 15%;">FY 05</th><th style="width: 15%;">FY 06</th><th style="width: 15%;">FY 07</th></tr></thead><tbody><tr><td>Accomplishments/Effort/Subtotal Cost</td><td></td><td></td><td></td><td></td></tr><tr><td>RDT&E Articles Quantity</td><td></td><td></td><td></td><td></td></tr></tbody></table> <div style="border: 1px solid black; height: 70px; margin-top: 20px;"></div>						FY 04	FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost		9.843	9.965	9.958	RDT&E Articles Quantity *		7				FY 04	FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost					RDT&E Articles Quantity						FY 04	FY 05	FY 06	FY 07	Accomplishments/Effort/Subtotal Cost					RDT&E Articles Quantity				
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C. PROGRAM CHANGE SUMMARY:

	FY 04	FY 05	FY 06	FY 07
Funding:				
Previous President's Budget:	0.000	9.961	9.972	9.978
Current BES/President's Budget	0.000	9.843	9.965	9.958
Total Adjustments	0.000	-0.118	-0.007	-0.020
Summary of Adjustments				
Congressional program reductions				
Congressional undistributed reductions		-0.106		
Congressional rescissions				
SBIR/STTR Transfer				
OSD		-0.012	-0.202	-0.188
Navy (FMB/Sponsor/NAVAIR)				
Economic Assumptions			0.195	0.168
Reprogrammings				
Congressional increases				
Subtotal	0.000	-0.118	-0.007	-0.020

Schedule:

The previous President's Budget reflected the Air Force schedule. Changes from PB05 reflect a refinement of Navy requirements and a milestone schedule that supports the Navy program.

Technical:

Not Applicable.

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-05			PROGRAM ELEMENT NUMBER AND NAME 0604329N Small Diameter Bomb (SDB)			PROJECT NUMBER AND NAME 3072 Small Diameter Bomb				

D. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
RDT&E (PB06)										
US Air Force (USAF) PE 0604329F (SDB)	118.828	75.815	85.988	85.209	131.299	141.327	90.759	11.458	0.000	867.441
Missile Procurement (PB06)										
US Air Force (USAF) PE 0207327F (SDB)		29.144	59.052	114.304	105.003	124.319	194.513	195.696	734.162	1556.193
Quantity		158	512	1200	1340	1508	2296	2650	15366	25030

E. ACQUISITION STRATEGY:

Monitor design definition of SDB and carriage system for applications to future platforms (e.g., JSF). No Navy RDT&E requirements for Increment I on existing platforms. Perform risk reduction pre-integration testing during Increment II to include Seeker and Other Trade Studies, JSF Fit checks, Shipboard Suitability, Electromagnetic Environmental Effects, System Safety, Climatic/Dynamic Environments, Structures/Loads/Materials, Separations Wind Tunnel, and Catapult/Arrested Landings testing.

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Exhibit R-3 Cost Analysis (page 1)								DATE: February 2005				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-05			0604329N Small Diameter Bomb (SDB)			3072 Small Diameter Bomb						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
											0.000	
											0.000	
Aircraft Integration	CPAF	Boeing/LMIS				1.305	10/05	2.175	10/06		3.480	3.480
											0.000	
Ship Suitability	CPAF	Boeing, St. Charles	4.080	0.657	10/04	1.298	10/05	1.720	10/06		7.755	7.755
											0.000	
											0.000	
											0.000	
Award Fees				0.116	TBD	0.390	TBD	0.585	TBD		1.091	
											0.000	
Subtotal Product Development			4.080	0.773		2.993		4.480		0.000	12.326	
Remarks:												
Studies & Analyses	CPAF	Boeing St. Charles, MO	0.103	4.002	10/04	2.194	10/05	0.394	10/06		6.693	6.693
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Award Fees				0.598	TBD	0.328	TBD	0.059	TBD		0.985	
											0.000	
Subtotal Support			0.103	4.600		2.522		0.453		0.000	7.678	
Remarks: Studies and Analyses include Weapon Data Link ACTD, Seeker Trade Studies, and Data Link Trade Studies.												

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Exhibit R-3 Cost Analysis (page 2)									DATE: February 2005			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDTE&E, N / BA-05			0604329N Small Diameter Bomb (SDB)			3072 Small Diameter Bomb						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Test Assets	CPAF	Boeing, St Charles, MO		0.770	10/04						0.770	0.770
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal T&E			0.000	0.770		0.000		0.000		0.000	0.770	
Remarks:												
Contractor Engineering Support	RX	Various		0.600	11/04	0.650	11/05	0.700	11/06		1.950	
Government Engineering Support	WX	Various	0.121	2.800	11/04	3.500	11/05	4.000	11/06		10.421	
Program Management Support	RX	Various		0.200	11/04	0.200	11/05	0.225	11/06		0.625	
Travel	Misc	Various	0.070	0.100	10/04	0.100	10/05	0.100	10/06		0.370	
											0.000	
											0.000	
Subtotal Management			0.191	3.700		4.450		5.025		0.000	13.366	
Remarks:												
Total Cost			4.374	9.843		9.965		9.958		0.000	34.140	
Remarks:												

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EXHIBIT R4, Schedule Profile																										DATE:				February 2005							
APPROPRIATION/BUDGET ACTIVITY										PROGRAM ELEMENT NUMBER AND NAME												PROJECT NUMBER AND NAME															
RDT&E, N / BA-05										0604329N Small Diameter Bomb (SDB)												3072 Small Diameter Bomb															
Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011								
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4									
Navy Seeker and Other Trade Studies																																					
Carrier Suitability																																					
Ground and Fit Checks																																					

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* Not required for Budget Activities 1, 2, 3, and 6

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Exhibit R-2, RD TEN Budget Item Justification
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