

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification					DATE: May 2009			
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5					R-1 ITEM NOMENCLATURE 0604329N, SMALL DIAMETER BOMB			
COST (\$ in Millions)	FY 2008	FY 2009	FY 2010					
Total PE Cost	11.252	19.485	43.902					
3072 SMALL DIAMETER BOMB	11.252	19.485	43.902					

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Small Diameter Bomb (SDB) Increment II is an ACAT ID program providing the warfighter a capability to attack mobile targets in all weather. The Air Force is the executive service. SDB Increment II addresses the following warfighter requirements: attack mobile targets; multiple kills per pass; multiple ordnance carriage; all weather operations; near-precision munitions capability; capability against fixed targets; reduced munitions footprint; increased weapons effectiveness; minimized potential for collateral damage; reduced susceptibility of munitions to countermeasures; and a migration path to net centric ops capability. Threshold aircraft is the F-15E for the Air Force and F-35 B and F-35 C for the Navy. Objective aircraft include the F/A-22, B-1, B-2, F-117, F-16, B-52, Predator B, F/A-18 E/F and the Navy Unmanned Combat Air System (N-UCAS). SDB Increment II will continue incremental development to pursue network CENTRIC interoperability. SDB Increment II is a key component of the Air Force's Global Strike Task Force CONOP.

Navy funding will provide for risk reduction activities, participation in common efforts, and development and evaluation of Navy-unique and interoperability requirements. Navy SDB II Initial Operating Capability is scheduled for FY 2016 on JSF Short Take-Off Vertical Landing (STOVL) F-35B and Navy Conventional Take Off and Landing (CTOL) Variant (F-35C) aircraft. Additionally, Navy funding is provided to conduct weapons data link message development and testing through Joint Capability Technology Demonstration (JCTD) efforts to achieve risk reduction efforts and weapons interoperability. The Joint Surface Warfare (JSuW) is one current JCTD being conducted to analyze weapons data link message development.

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B. PROGRAM CHANGE SUMMARY:

Funding:	<u>FY08</u>	<u>FY09</u>	<u>FY10</u>
Previous President's Budget:	9.623	19.574	22.440
Current President's Budget:	11.252	19.485	43.902
Total Adjustments	1.629	-0.089	21.462

Summary of Adjustments

Congressional Rescissions			
Congressional Adjustments		-0.036	
SBIR/STTR/FTT Assessments	-0.046		
Program Adjustments	1.675		21.463
Rate/Misc Adjustments		-0.053	-0.001
Subtotal	1.629	-0.089	21.462

Schedule:

Not applicable

Technical:

Not applicable

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EXHIBIT R-2a, RDT&E Project Justification							DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604329N, SMALL DIAMETER BOMB			PROJECT NUMBER AND NAME 3072 SMALL DIAMETER BOMB			
COST (\$ in Millions)		FY 2008	FY 2009	FY 2010				
Project Cost		11.252	19.485	43.902				
RDT&E Articles Qty								

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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B. Accomplishments/Planned Program

Contractor Risk Reduction	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost	4.050	2.380	
RDT&E Articles Quantity			

Participate in the 42-month risk reduction phase with Boeing and Raytheon. The Navy's participation is to ensure Navy-unique requirements are included in SDB II design and development and to understand interoperability requirements.

Conduct Weapon Data Link Testing/JSUW/HTVS	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost	3.544	9.900	
RDT&E Articles Quantity			

Conduct Weapons Data Link message development and testing. This will facilitate the incorporation of these new message sets into the JSF when the aircraft becomes available. Beginning in FY08, funding is provided to accomplish Joint Surface Warfare efforts and in FY09 to accomplish Hard Target Void Sensing efforts. Both efforts will enhance Strike Warfare survivability in development of Small Diameter Bomb II

SDB II Support and Integration	FY 08	FY 09	FY 10
Accomplishments/Effort/Subtotal Cost	3.658	7.205	43.902
RDT&E Articles Quantity			

Government and Support Contractor participation in risk reduction activities to include Seeker and Other Trade Studies, Joint Strike Fighter fit checks, Shipboard Suitability, Electromagnetic Environmental Effects, System Safety, Climatic/Dynamic Environments, catapulted/arrested landings testing, multiple weapon carriage system requirements, and other risk reduction activities.

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APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME	
RDT&E, N / BA-5	0604329N, SMALL DIAMETER BOMB	3072 SMALL DIAMETER BOMB	

C. OTHER PROGRAM FUNDING SUMMARY:

<u>Line Item No. & Name</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
USN WPN, BLI 223800 Small Diameter Bomb (begins in FY15)			
USAF PE 0604329F (SDB)	144.279	125.067	156.451

D. ACQUISITION STRATEGY:

The Air Force selected Boeing in August 2003 as the SDB Increment I prime contractor following a 24-month CAD. Currently, SDB Increment I is in Low Rate Initial Production (LRIP) after successfully achieving Milestone C in April 2005.

The SDB Increment II acquisition strategy is to conduct a full and open competition to select up to two contractors to compete during a planned 42-month risk reduction phase prior to entering SDD. This competition began April 17, 2006 with the signature of contracts to the competing contractors: 1) Raytheon and 2) the team of Boeing and Lockheed Martin. An SDD cost-type contract is planned to be awarded early in FY 2010.

The Navy funding will support Navy-unique efforts for SDB Phase II, such as aircraft integration, ship suitability, studies and analysis, and program management and government in-house support. These efforts will be performed on several cost-type contracts or through cost reimbursable work requests to government activities and contractors.

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Exhibit R-3 Cost Analysis (page 1)							DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5			PROGRAM ELEMENT 0604329N, SMALL DIAMETER BOMB			PROJECT NUMBER AND NAME 3072 SMALL DIAMETER BOMB		
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date	
PRODUCT DEVELOPMENT								
Aircraft Integration	C/CPFF	Lockheed Martin, JSF, Fort Worth, TX	3.162	3.417	Feb 2009	13.262	Nov 2009	
Primary Hardware Development	C/CPFF	MCDONNELL DOUGLAS CORP, SAINT LOUIS, MO	4.050	.343	Feb 2009			
Primary Hardware Development	C/CPFF	RAYTHEON MISSILE SYSTEMS CO, TUCSON, AZ	4.050	.343	Feb 2009			
Primary Hardware Development	TBD	TBD				2.622	Jan 2010	
Primary Hardware Development	C/CPFF	(JSuW) RMS, TUCSON, AZ		2.600	Feb 2009			
Ship Suitability	C/CPFF	MCDONNELL DOUGLAS CORP, SAINT LOUIS, MO	6.099	1.700	Feb 2009	18.278	Dec 2009	
Subtotal Product Development			17.361	8.403		34.162		
<p>Remarks: McDonnell Douglas Corp and Raytheon Missile Systems Primary H/W Development Prior Year through FY09 includes costs for the 42-month risk reduction phase. Funding for McDonnell Douglas represents the Boeing/Lockheed Martin team. Primary H/W TBD in FY10 and out reflects the winning SDB II contractor. FY09 Primary H/W RMS, Tucson, AZ supports the JSuW efforts. Ship suitability efforts for McDonnell Douglas Corp include efforts for BRU-61 Carriage System.</p>								
SUPPORT								
Software Development	SS/CPFF	Various	5.990	1.300	Mar 2009			
Software Development	SS/CPFF	MCDONNELL DOUGLAS CORP, SAINT LOUIS, MO	5.935					
Software Development	WX	NAWCWD, CHINA LAKE CA	1.240	.250	Nov 2008			
Studies & Analyses (APL)	C/CPFF	JOHNS HOPKINS UNIV, BALTIMORE MD	2.395	.300	Feb 2009			
Subtotal Support			15.560	1.850		0.000		
<p>Remarks: Studies and Analyses include Navy activities to define CONOPS and better define Navy-specific and interoperability requirements, such as Weapon Data Link ACTD, Seeker Trade Studies, and Data Link Trade Studies. Software Development efforts are in support of JSuW JCTD incorporation of J.11 Message Set into Strike Weapons.</p>								

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Exhibit R-3 Cost Analysis (page 2)						DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5			PROGRAM ELEMENT 0604329N, SMALL DIAMETER BOMB			PROJECT NUMBER AND NAME 3072 SMALL DIAMETER BOMB	
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 09 Cost	FY 09 Award Date	FY 10 Cost	FY 10 Award Date
DEVELOPMENTAL TEST & EVAL.							
Developmental Test & Evaluation	Various	Various	.364			2.500	
Operational Test & Evaluation	Various	COMOPTEVFOR, Norfolk, VA	.110	.600	Oct 2008	.300	Oct 2009
Subtotal T&E			0.474	0.600		2.800	
Remarks: Developmental Test & Evaluation includes funding for wind tunnel testing in FY10.							
MANAGEMENT							
Contractor Engineering Support	C/CPFF	TBD	.371			.767	Jan 2010
Government Engineering Support	WX	NAWCWD, CHINA LAKE CA	8.262	5.144	Nov 2008	3.739	Nov 2009
Government Engineering Support	WX	VARIOUS	3.294	3.107	Nov 2008	2.034	Nov 2009
Program Mgmt Sup	WX	VARIOUS	.500	.181	Nov 2008	.200	Nov 2009
Program Mgmt Sup - MSS	C/CPFF	VARIOUS	.409				
Travel	MIPR	ASC 26 OG/OGP, EGLIN AFB FL	.806	.200	Oct 2008	.200	Oct 2009
Subtotal Management			13.642	8.632		6.940	
Remarks: FY09 increase in Government Eng Sup includes support for Hard Target Void Sensing Fuze and JSuW efforts.							
Remarks: Totals may not add due to rounding.							
Total Cost			47.037	19.485		43.902	

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EXHIBIT R4, Schedule Profile													DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY					PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME				
RDT&E, N / BA-5					0604329N, SMALL DIAMETER BOMB					3072 SMALL DIAMETER BOMB				
Fiscal Year	2008				2009				2010					
	1	2	3	4	1	2	3	4	1	2	3	4		
Acquisition Milestones														
Risk Reduction Phase														
Source Selection													 SDD Down Select	
Development and Integration														
Critical Design Review Milestone B													 CDR MS B	
Ship Suitability														
Test & Evaluation Milestones														
Development Test														
System Flight Test														
Operational Test														
Production Milestones														
Production Deliveries (FY16)														

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