#### **CLASSIFICATION:**

## **UNCLASSIFIED**

EXHIBIT R-2, RDT&E Budget Item Justification						DATE:	
-						Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOME		•	
RESEARCH DEVELOPMENT TEST & EVALUATION, NAV	Y / BA-05			0604329N Small	Diameter Bomb (S	DB)	1
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	9.513	9.816	10.021				
3072 Small Diameter Bomb	9.513	9.816	10.021				
	L				1	L	1

#### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Small Diameter Bomb (SDB) Increment II is a joint interest program providing the warfighter a capability to attack mobile targets in weather. 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 provides a migration path to net centric ops capability. Threshold aircraft is the F-15E. Objective aircraft include the F/A-22, B-1, B-2, Joint Strike Fighter (JSF), F-117, F-16, B-52, Predator B, and the Joint Unmanned Combat Air System (JUCAS). 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.

The Air Force's approved 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. The Navy funding will provide for risk reduction activities, Navy participation in common efforts, and evaluation and development of Navy-unique and interoperability requirements.

R-1 SHOPPING LIST - Item No.

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**UNCLASSIFIED** 

Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 1 of 9)

#### CLASSIFICATION:

EXHIBIT R-2a, RDT&E Project Justification							DATE:	
							Februa	ry 2006
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMI	ENT NUMBER AND	NAME		PROJECT NUMBE	R AND NAME		
RDT&E, N / BA-05	0604329N Small E	Diameter Bomb (SD	)B)		3072 Small Diame	ter Bomb		
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost		9.513	9.816	10.021				
RDT&E Articles Qty								

#### A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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### **CLASSIFICATION:**

EXHIBIT R-2a, RDT&E Project Justifica	tion		DATE:	ıary 2006
PROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND I		iai y 2006
DT&E, N / BA-05	0604329N Small Diameter Bomb (SDB)	3072 Small Diameter Bomb	1	
Accomplishments/Planned Program	000 102011 0111an			
	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost	9.513	9.816	10.021	
RDT&E Articles Quantity	3.313	3.010	10.021	
	a planned 42-month risk reduction phase prior to enterinent of Navy-unique and interoperability requirements.			
	FY 05	FY 06	FY 07	
Accomplishments/Effort/Subtotal Cost				
RDT&E Articles Quantity				
Accomplishments/Effort/Subtotal Cost	FY 05	FY 06	FY 07	
RDT&E Articles Quantity				
RDTAL Articles Quartity				

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Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 3 of 9)

### **CLASSIFICATION:**

Technical:

Not Applicable.

						February 2006
ROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBE	ER AND NAME	P	ROJECT NUMBER A	ND NAME	
&E, N / BA-05	0604329N Small Diameter Bo	mb (SDB)	3	072 Small Diameter E	Bomb	
C. PROGRAM CHANGE SUMMARY:						
Funding:		FY 05	FY 06	FY 07		
Previous President's Budget:		9.843	9.965	9.958		
Current President's Budget		9.513	9.816	10.021		
Total Adjustments		-0.330	-0.149	0.063		
Summary of Adjustments						
Congressional Reductions			-0.104			
Congressional Rescissions						
Congressional Undistributed Reductions		-0.184				
Congressional Increases						
Economic Assumptions			-0.045	0.097		
Miscellaneous Adjustments		-0.146		-0.034		
Subtotal		-0.330	-0.149	0.063		
Schedule:						
The Air Force's approved acquisition strategy is t	o conduct a full and open com	netition to select u	n to two contra	actors to compete dur	ing a planned 42-mo	onth rick reduction phase prior to
entering SDD. The Navy funding will provide for						

#### **CLASSIFICATION:**

XHIBIT R-2a, RDT&E	E Project Justification							DATE:		
									Februar	y 2006
PPROPRIATION/BUDGE	T ACTIVITY	PROGRAM EL	EMENT NUMB	BER AND NAMI	E	PROJECT NUM	IBER AND NA	ME		-
DT&E, N /	BA-05	0604329N Sm	all Diameter Bo	omb (SDB)		3072 Small Dia	meter Bomb			
D. OTHER PROGR	AM FUNDING SUMMARY:									
									То	Total
Line Item No. & N	<u>lame</u>	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	<u>Complete</u>	Cost
RDT&E (PB07	7)									
US Air Force (U	JSAF) PE 0604329F (SDB)	73.573	63.521	104.08	143.723	123.533	128.009	76.895	322.743	1036.077
Missile Procure	ement (PB07)									
US Air Force (U	JSAF) PE 0207327F (SDB)	29.122	53.336	99.062	96.386	148.23	164.543	137.449	481.091	1209.219
Quantity		199	567	1343	1395	3212	3558	2667	11059	24000

#### E. 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). Successfully achieved Milestone C in April 2005. Small Diameter Bomb (SDB) Increment II has not yet been awarded to a prime contractor; however, it is planned to be a competitively awarded cost-type development effort. The Air Force's approved 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. The Navy funding will provide for risk reduction activities, Navy participation in common efforts, and evaluation and development of Navy-unique and interoperability requirements.

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

#### **CLASSIFICATION:**

									DATE:				
Exhibit R-3 Cost Analysis (pa	age 1)										February 20	06	
APPROPRIATION/BUDGET ACT			PROGRAM E	LEMENT			PROJECT N	JMBER AND	NAME				
RDT&E, N / BA-05			0604329N Sr	nall Diameter B	Bomb (SDB)		3072 Small D	iameter Bomb	)				
Cost Categories	Contract	Performing		Total		FY 05		FY 06		FY 07			
	Method	Activity &			FY 05	Award	FY 06	Award		Award	Cost to	Total	Target Value
	& Type	Location		Cost	Cost	Date	Cost	Date	Cost	Date	Complete	Cost	of Contract
												0.000	)
												0.000	
Aircraft Integration	SS/CPFF	EDO Mtech, H	luntingdon, PA		0.101	01/05						0.101	0.101
												0.000	
Product Development	C/CPFF	TBD					1.817	05/06	3.363	12/06		5.180	
Ship Suitability	Various	Various		4.180			0.334	11/05	0.500	11/06		5.014	ļ
												0.000	
												0.000	
												0.000	
												0.000	
												0.000	
Subtotal Product Development				4.180	0.101		2.151		3.863	3	0.000	10.295	5

Remarks: The Air Force's approved 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. The Navy funding will provide for risk reduction activities, Navy participation in common efforts, and evaluation and development of Navy-unique and interoperability requirements.

Studies & Analyses	SS/CPFF	QNT/FMDI, Rome, NY	0.103	2.333	04/05						2.436	2.436
Studies & Analyses (APL)	SS/CPFF	JHU APL, Baltimore, MD		1.600	12/04	0.500	12/05	0.500	12/06		2.600	2.600
Studies & Analyses (Raytheon)	SS/CPFF	Raytheon, Tuscon, AZ		2.000	12/04	0.600	12/05		12/06		2.600	2.600
Studies & Analyses	Various	Various		0.623	12/04						0.623	
Software Development	SS/CPFF	Boeing, St. Louis				3.400	12/05	2.500	12/06		5.900	5.900
											0.000	
											0.000	
											0.000	
Subtotal Support			0.103	6.557		4.500		3.000		0.000	14.160	

#### 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.

The Weapon Data Link software development effort develops requirements, establishes design architecture and dramatically reduces risk for integration of SDB Increment II WDLN ICD into JSF. H5E F/A-18 SCS will be utilized as a surrogate test bed to incorporate WDLN ICD.

#### **CLASSIFICATION:**

								DATE:				
Exhibit R-3 Cost Analysis (pag	ge 2)									February 200	06	
APPROPRIATION/BUDGET ACTIV	TTY		PROGRAM ELEMENT			PROJECT NU	JMBER AND	NAME		•		
RDT&E, N / BA-05			0604329N Small Diameter I	Bomb (SDB)		3072 Small Di		)				
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
	1 ''									•	0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
											0.000	
Subtotal T&E			0.000	0.000		0.000	)	0.00	0	0.000	0.000	
Contractor Engineering Support	RX	Various		0.460	11/04	0.200	11/05	0.20	0 11/06		0.860	
Government Engineering Support	WX	Various	0.121	2.033	11/04	2.403	11/05	2.38	3 11/06		6.940	
Program Management Support	Misc	Various		0.262	11/04	0.362	11/05	0.37	5 11/06		0.999	
Travel	Misc	Various	0.070	0.100	10/04	0.200	10/05	0.20	0 10/06		0.570	
											0.000	
											0.000	
Subtotal Management			0.191	2.855		3.165		3.15	8	0.000	9.369	
Remarks:												
Total Cost			4.474	9.513		9.816	j	10.02	1	0.000	33.824	
Remarks:												

#### CLASSIFICATION:

EXHIBIT R4, Schedule																									DATE		F	ebrua	ary 20	06		
APPROPRIATION/BUDGE RDT&E, N /	T ACTIVI BA-(													R AND		E					PROJ 3072 :					1E						
Fiscal Year		20	004			20	05			20	06			200	07			20	08			20	09			20	10			20	11	
	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	1	2	3	4
Navy Seeker and Other Trade Studies																																
Carrier Suitability																																
Ground and Fit Checks																																
Product Development																																
														PPIN																		

<sup>\*</sup> Not required for Budget Activities 1, 2, 3, and 6

### **CLASSIFICATION:**

Exhibit R-4a, Schedule Detail			DATE: <b>February 2006</b>					
APPROPRIATION/BUDGET ACTIVITY	PROGRAM EI	LEMENT			PROJECT NU	MBER AND NA	AME	
RDT&E, N / BA-05	0604329N Sn	nall Diameter B	omb (SDB)		3072 Small Di	ameter Bomb		
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Navy Only Increment II								
Cooker and Other Trade Studies		1Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 2Q			
Seeker and Other Trade Studies Carrier Suitability		1Q - 4Q 1Q - 4Q	1Q - 4Q 1Q - 4Q	1Q - 4Q 1Q - 4Q	1Q - 2Q			
Ground Testing and Fit Checks		10 - 40	3Q - 4Q	1Q - 4Q 1Q - 4Q	1Q-3Q			
Product Development			3Q - 4Q	1Q - 4Q	1Q - 4Q	1Q - 4Q		
Froduct Development			3Q - 4Q	10 - 40	10 - 40	10 - 40		
					+			
					1			
					+			
					+			

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Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 9 of 9)