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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604329N: Small Diameter Bomb (SDB)							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	15.732	29.635	31.064	-	31.064	48.434	52.080	57.501	72.860	Continuing	Continuing
3072: Small Diameter Bomb (SDB)	13.396	19.555	17.792	-	17.792	30.573	32.612	45.249	64.428	Continuing	Continuing
3082: JMM BRU	2.336	10.080	13.272	-	13.272	17.861	19.468	12.252	8.432	Continuing	Continuing

Note

In FY 2011, Project Unit (PU) 3082 was established for Joint Miniature Munitions Bomb Rack Unit (JMM BRU) development. Funding for this PU was transferred from PU 3072 for FY11 through FY17.

A. Mission Description and Budget Item Justification

Small Diameter Bomb Increment II (SDB II) is a joint program, with the Air Force (AF) as the lead service, which provides the warfighter a capability to attack mobile targets in all weather from Stand-Off range. SDB II addresses the following warfighter requirements: attack mobile targets, adverse weather operations, multiple kills per pass, multiple ordnance carriage, 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 net-centric operations capability. The threshold aircraft for the AF is the F-15E and the threshold aircraft for the Department of Navy (DoN) are the F-35B and F-35C. SDB II will be compatible with the JMM BRU (BRU-61A/A).

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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy	DATE: February 2012
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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604329N: <i>Small Diameter Bomb (SDB)</i>
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B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	44.091	47.635	45.883	-	45.883
Current President's Budget	15.732	29.635	31.064	-	31.064
Total Adjustments	-28.359	-18.000	-14.819	-	-14.819
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-18.000			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-4.582	-			
• SBIR/STTR Transfer	-1.054	-			
• Program Adjustments	-	-	-14.870	-	-14.870
• Rate/Misc Adjustments	-	-	0.051	-	0.051
• Congressional Recision Adjustments	-2.600	-	-	-	-
• Congressional General Reductions	-0.123	-	-	-	-
Adjustments					
• Congressional Directed Reductions	-20.000	-	-	-	-
Adjustments					

Change Summary Explanation

Technical:

Schedule: SDB II - LRIP contract awards I through V moved forward from 4Q to 2Q of each year to accurately depict the current award dates.

As a result of the Joint Strike Fighter (F-35) program's restructure, SDB II and JMM BRU integration programs were moved from JSF OFP Block 3 to OFP Block 4. New IOC for Department of Navy is FY2020.

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy								DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604329N: Small Diameter Bomb (SDB)				PROJECT 3072: Small Diameter Bomb (SDB)			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
3072: Small Diameter Bomb (SDB)	13.396	19.555	17.792	-	17.792	30.573	32.612	45.249	64.428	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification											
SDB II is an ACAT ID program providing the warfighter a capability to attack mobile targets in all weather from Stand-Off range. The Air Force is the lead service, Raytheon in Tucson, AZ is the prime contractor. SDB 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-35B and F-35C for the Department of the Navy. Objective aircraft include the F/A-22, B-1, B-2, F-117, F-16, B-52, Predator B, and F/A-18E/F.											
As a result of the Joint Strike Fighter (F-35) program's restructure, SDB II integration was moved from the JSF OFP Block 3 to Block 4. New IOC is FY2020.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2011	FY 2012	FY 2013	
Title: SDB II Weapon Support Articles: Description: Funding provides for SDB II Engineering Manufacturing and Development (EMD) efforts including weapon vendor support, test assets, and government support. FY 2011 Accomplishments: Continue support of EMD; integration of SDB II with F-35B and F-35C. FY 2012 Plans: Continue support of EMD; integration of SDB II with F-35B and F-35C. FY 2013 Plans: Continue support of EMD; integration of SDB II with F-35B and F-35C.								8.986	10.187	10.821	
								13	80	0	
Title: JSF Integration Articles: Description: Funding provided for integration of SDB II on F-35B and F-35C, specifically for Lockheed Martin to develop F-35 Operational Flight Program (OFP) software, flight missions, and support and analysis of missions. FY 2011 Accomplishments:								4.410	9.368	6.971	
								0	0	0	

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2011	FY 2012	FY 2013
Continue F-35 OFP development and coding and support fit checks with SDB II Weapon Vendor (Raytheon).											
FY 2012 Plans: Continue F-35 OFP development and coding and support fit checks with SDB II Weapon Vendor (Raytheon).											
FY 2013 Plans: Continue F-35 OFP development and coding and support fit checks with SDB II Weapon Vendor (Raytheon).											
Accomplishments/Planned Programs Subtotals									13.396	19.555	17.792
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• WPN/223800: Small Diameter Bomb II	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	25.543	653.590	679.133
• RDTE,AF/0604329F: Small Diameter Bomb	99.992	132.881	143.000	0.000	143.000	115.000	54.000	18.000	64.000	39.681	1,159.664
• MPAF/0207327F: Small Diameter Bomb	0.000	0.000	42.000	0.000	42.000	62.000	88.000	87.000	81.000	1,529.637	1,889.637
D. Acquisition Strategy											
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 Engineering, Manufacturing and Development (EMD). 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. A Fixed Price Incentive Firm type contract for EMD, including Firm Fixed Price procurement options for Lots 1-3 was awarded to Raytheon August 9, 2010. Lots 4 & 5 are included in the contract, but are Not-To-Exceed options.											
The Navy funding will support Navy-unique efforts for SDB Increment 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.											
E. Performance Metrics											
Earned Value Management has been implemented on the EMD contract with Raytheon.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy											DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604329N: Small Diameter Bomb (SDB)				PROJECT 3072: Small Diameter Bomb (SDB)						
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Primary Hardware Development - (JSuW/HTVSF/ SDB II Risk Reduction)	C/CPFF	Various:Various	11.238	-		-		-		-	0.000	11.238	11.238	
Aircraft Integration - JSF	C/CPFF	Lockheed Martin:Fort Worth, TX	18.359	3.165	Jan 2012	5.112	Jan 2013	-		5.112	56.970	83.606	83.606	
Primary Hardware Development - SDB II EMD	C/FPIF	Raytheon:Tucson, AZ	6.181	0.792	Jan 2012	1.094	Jan 2013	-		1.094	45.820	53.887	53.887	
BRU-61	C/CPFF	McDonnell Douglas Corp:St Charles, MO	4.259	-		-		-		-	0.000	4.259	4.259	
Subtotal			40.037	3.957		6.206		-		6.206	102.790	152.990	152.990	
Remarks Primary Hardware Development Prior Years includes McDonnell Douglas Corp and Raytheon Missile Systems Primary H/W Development for the SDB II 42-month risk reduction phase, \$4.393M for Boeing/Lockheed Martin team and \$4.393M for Raytheon and \$2.6M for Joint Surface Warfare (JSuW) efforts with Raytheon. Primary H/W and Aircraft Integration to Raytheon in Tucson, AZ reflects the winning SDB II contractor. Funding for Lockheed Martin F-35 does not include OFP nor Test missions which are represented in Support and Test sections. Beginning FY11, funding for JMM BRU (BRU-61A/A) is included in PU3082.														
Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Software Development - JSuW/WDLN/HTVSF	Various	Various:Various	14.715	-		-		-		-	0.000	14.715	14.715	
Software Development - JSF	C/CPFF	Lockheed Martin:Ft. Worth, TX	-	3.550	Jun 2012	1.505	Jun 2013	-		1.505	32.152	37.207	37.207	
Studies & Analyses	C/CPFF	Johns Hopkins University:Baltimore, MD	2.695	-		-		-		-	0.000	2.695	2.695	
Subtotal			17.410	3.550		1.505		-		1.505	32.152	54.617	54.617	
Remarks Studies and Analyses include Navy activities to define CONOPS and better define Navy-specific and interoperability requirements, such as Weapon Data Link Advanced Concept Technology Demonstration, Seeker Trade Studies, and Data Link Trade Studies. Prior year Software Development efforts are in support of JSuW Joint Capability Technology														

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Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Demonstrations (JCTD) incorporation of J.11 Message Set into Strike Weapons and Weapon Data Link Network efforts. Software Development for JSF is the Universal Armament Interface (UAI), Operational Flight Plan (OFP) and mission planning which supports the SDB II program.														
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Developmental Test & Evaluation - JSuW/WDLN	Various	Various:Various	2.864	-		-		-		-	4.007	6.871		
Operational Test & Evaluation - SDB II	WR	COMOPTEVFOR:China Lake, CA	1.010	-		-		-		-	15.701	16.711		
Developmental Test & Evaluation - SDB II	C/CPFF	Lockheed Martin:Ft. Worth, TX	-	-		1.322	Jan 2013	-		1.322	64.897	66.219	66.219	
SDB II Weapon Test Assets	C/FFP	Raytheon:Tucson, AZ	2.060	5.989	Jan 2012	2.962	Jan 2013	-		2.962	15.239	26.250	26.250	
Subtotal			5.934	5.989		4.284		-		4.284	99.844	116.051		
Remarks														
Developmental T&E Lockheed Martin in FY 2013 supports wind tunnel testing. Test assets include weapon assets required for Development Test and Operational Test.														
Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total				
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Contractor Services	Various	Various:Various	2.099	0.297	Nov 2011	0.312	Nov 2012	-		0.312	2.252	4.960	4.960	
Government Support	WR	NAWC WD:China Lake	19.706	2.646	Nov 2011	2.761	Nov 2012	-		2.761	19.298	44.411		
Government Support	WR	Various:Various	8.729	0.569	Nov 2011	0.170	Nov 2012	-		0.170	3.593	13.061		
Program Management Support	WR	Various:Various	3.674	2.347	Nov 2011	2.374	Nov 2012	-		2.374	13.385	21.780		
Travel	MIPR	ASC20OG:Eglin AFB, FL	1.606	0.200	Oct 2011	0.180	Oct 2012	-		0.180	1.400	3.386		
Subtotal			35.814	6.059		5.797		-		5.797	39.928	87.598		

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	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	99.195	19.555		17.792		-		17.792	274.714	411.256	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0604329N: Small Diameter Bomb (SDB)	PROJECT 3072: Small Diameter Bomb (SDB)

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604329N: <i>Small Diameter Bomb (SDB)</i>	PROJECT 3072: <i>Small Diameter Bomb (SDB)</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Small Diameter Bomb II</i>				
Acquisition Milestones: Milestones: MS C	4	2013	4	2013
Systems Development: Hardware Development: Engineering Manufacturing and Development (EMD)	1	2011	1	2017
Systems Development: Hardware Development: Dual Power BRU-61/A	1	2011	2	2012
Systems Development: Hardware Development: SDB II Qualification BRU-61/A	1	2011	4	2014
Test & Evaluation: Technical Evaluation: Developmental Test	2	2017	4	2017
Production Milestones: Contract Awards: Low Rate Initial Production (LRIP) I Contract Award (USAF Only) (Missile Procurement, AF)	2	2013	2	2013
Production Milestones: Contract Awards: LRIP II Contract Award (USAF Only) (Missile Procurement, AF)	2	2014	2	2014
Production Milestones: Contract Awards: LRIP III Contract Award (USAF Only) (Missile Procurement, AF)	2	2015	2	2015
Production Milestones: Contract Awards: LRIP IV Contract Award (USAF Only) (Missile Procurement, AF)	2	2016	2	2016
Production Milestones: Contract Awards: LRIP V Contract Award (USAF and DoN) (Missile Procurement, AF and WPN)	2	2017	2	2017
Deliveries: LRIP I Deliveries (USAF only)	2	2014	2	2015
Deliveries: LRIP II Deliveries (USAF only)	2	2015	2	2016
Deliveries: LRIP III Deliveries (USAF only)	2	2016	2	2017
Deliveries: LRIP IV Deliveries (USAF only)	2	2017	4	2017

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604329N: Small Diameter Bomb (SDB)				PROJECT 3082: JMM BRU			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
3082: JMM BRU	2.336	10.080	13.272	-	13.272	17.861	19.468	12.252	8.432	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
Note In FY 2011, a second project unit 3082 was established for Joint Miniature Munitions Bomb Rack Unit (JMM BRU). Funding was realigned from project unit 3072 Small Diameter Bomb to provide better tracking of the JMM BRU.											
A. Mission Description and Budget Item Justification The Joint Miniature Munitions Bomb Rack Unit (JMM BRU) is an Air Force led ACAT III program. It is required for the DoN carriage of the SDB II weapon in the internal bay of the F-35B and F-35C and operation in the Department of Navy environment. The SDB II Capability Development Document states that it must be operable on the Miniature Munitions Smart Rack BRU-61/A. The BRU-61/A, currently in production in the USAF, does not meet the needs to operate with SDB II within the F-35 internal bay in the DoN environment. The JMM BRU, designated BRU-61A/A, fills the capability gap required by the DoN. Efforts include development of a dual poower capability to meet the SDB II operating environment on the F-35. SDB II and the JMM BRU integration were moved from F-35 Block 3 to Block 4. Budgets and schedules have been modified to meet the F-35 Block 4 schedule.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2011	FY 2012	FY 2013	
Title: Joint Miniature Munitions Bomb Rack Unit (JMM BRU) Government Support Articles: Description: Funding provided for the SDB II Carriage System support and integration into Navy environments. FY 2011 Accomplishments: Acquisition Strategy development and Request for Proposal development. FY 2012 Plans: Support prime contractor contract and initiate Technology Development (TD) Phase. Complete Dual Power development. FY 2013 Plans: Continue with TD Phase.								2.336	2.912	3.422	
								0	0	0	
Title: Joint Miniature Munitions Bomb Rack (JMM BRU) Prime Contractor Articles: Description: Prime Contractor Support of JMM BRU (BRU-61A/A) Technology Development (TD)/Engineering & Manufacturing Development (EMD) contract.								-	7.168 3	9.850 2	

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy							DATE: February 2012				
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)											
							FY 2011	FY 2012	FY 2013		
<i>FY 2012 Plans:</i> Select Prime Contractor and award TD/EMD contract.											
<i>FY 2013 Plans:</i> Continue TD/EMD contract.											
Accomplishments/Planned Programs Subtotals							2.336	10.080	13.272		
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• APN/072000: <i>Aircraft Equipment and Facilities</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	294.100	294.100
D. Acquisition Strategy The JMM BRU is an Air Force led ACAT III program. Industry day was held 4Q FY 2010, Acquisition Strategy approved 1Q FY2011 and Material Development Decision 2Q FY2011.											
E. Performance Metrics Earned Value Management will be implemented on the TD/EMD contract with the successful offeror for the technology demonstration contract.											

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Product Development (\$ in Millions)					FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Joint Miniature Munitions Bomb Rack Unit (JMM BRU)	C/CPIF	TBD:TBD	5.130	6.456	Apr 2012	8.912	Apr 2013	-		8.912	28.637	49.135	49.135	
Subtotal			5.130	6.456		8.912		-		8.912	28.637	49.135	49.135	
Remarks Funding provided to the successful offerer for development of a JMM BRU SDB II carriage system which satisfies DoN environments. JMM BRU will carry four SDB II's and will be capable of being used both internally and externally.														
Test and Evaluation (\$ in Millions)					FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
JMM BRU Test Assets	C/CPFF	TBD:TBD	-	0.711	Apr 2012	0.885	Apr 2013	-		0.885	6.675	8.271	8.271	
Subtotal			-	0.711		0.885		-		0.885	6.675	8.271	8.271	
Remarks Funding provided to purchase JMM BRU test assets required for DT and OT.														
Management Services (\$ in Millions)					FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract	
Government Support	WR	NAWC WD:China Lake, CA	0.140	0.636	Nov 2011	1.129	Nov 2012	-		1.129	6.930	8.835		
Government Support	WR	Various:Various	1.930	2.227	Nov 2011	2.301	Nov 2012	-		2.301	11.880	18.338		
Travel	MIPR	ASC20OG:Eglin AFB, FL	0.050	0.050	Oct 2011	0.045	Nov 2012	-		0.045	0.250	0.395		
Subtotal			2.120	2.913		3.475		-		3.475	19.060	27.568		

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	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	7.250	10.080		13.272		-		13.272	54.372	84.974	

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604329N: <i>Small Diameter Bomb (SDB)</i>	PROJECT 3082: <i>JMM BRU</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy			DATE: February 2012
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Joint Miniature Munitions Bomb Rack Unit (JMM BRU)</i>				
Acquisition Milestonees: Milestones: Material Development Decision	2	2011	2	2011
Acquisition Milestonees: Milestones: Milestone B	2	2015	2	2015
Systems Development: Hardware Development: Technology Development	2	2013	2	2015
Systems Development: Hardware Development: Engineering Manufacturing and Development (EMD)	3	2015	4	2017
Systems Development: Reviews: Preliminary Design Review (PDR)	1	2015	1	2015
Systems Development: Reviews: Critical Design Review (CDR)	4	2015	4	2015
Test & Evaluation: Technical Evaluation: Design Verification	3	2014	4	2015
Test & Evaluation: Technical Evaluation: Environmental Qualification	2	2016	2	2017