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Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Navy **DATE:** February 2011

APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>				PE 0604329N: <i>Small Diameter Bomb (SDB)</i>							
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	17.494	44.091	47.635	-	47.635	45.883	69.616	94.210	78.209	Continuing	Continuing
3071: <i>Very Low Collateral Damage Weapon</i>	6.000	-	-	-	-	-	-	-	-	0.000	6.000
3072: <i>Small Diameter Bomb (SDB)</i>	11.494	44.091	37.555	-	37.555	36.335	44.439	90.902	75.869	Continuing	Continuing
3082: <i>JMM BRU</i>	-	-	10.080	-	10.080	9.548	25.177	3.308	2.340	Continuing	Continuing

Note

In FY 2010, funding for Hard Target Void Sensing Fuze and Joint Surface Warfare (JSuW) was moved to PE 0604659N, Project Unit (PU) 3214 and PU 3215, respectively.

PU 3071, Very Low Collateral Damage Weapon (VLCDW), was established in October 2010 as FY10 OCO funding.

In FY 2011, a second PU 3082 was established for Joint Miniature Munitions Bomb Rack Unit (JMM BRU). Funding for this PU was transferred from PU 3072 for FY12 through FY16. The FY11 funds (\$7.3M) currently reside in PU 3072, however, funding will be executed under the appropriate PU 3082.

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 aircrafts for the Department of Navy are the F-35B and F-35C. SDB II will be compatible with the BRU-61/A miniature munitions carriage.

As a result of the Joint Strike Fighter program's restructure, SDB II's required funding for FY10 was reduced from it's enacted level. The following reprogrammings, FY10-10PA for Training and Recruiting and FY10-12 PA for Counter IED, realigned approximately \$27M from the SDB FY10 program. These reprogrammings were approved by all four (4) committees and have been implemented. The FY11 and FY12 request support the rephased SDB program.

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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 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	43.717	44.091	74.918	-	74.918
Current President's Budget	17.494	44.091	47.635	-	47.635
Total Adjustments	-26.223	-	-27.283	-	-27.283
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-30.902	-			
• SBIR/STTR Transfer	-1.200	-			
• Program Adjustments	6.000	-	-26.840	-	-26.840
• Section 219 Reprogramming	-0.119	-	-	-	-
• Rate/Misc Adjustments	-	-	-0.443	-	-0.443
• Congressional General Reductions Adjustments	-0.002	-	-	-	-

Change Summary Explanation

Technical:

Schedule: As a result in the delay of the approved Acquisition Strategy the following milestones have changed: Milestone (MS) B from 2Q FY10 to 4Q FY10, Critical Design Review from 3Q FY10 to 4Q FY10, Engineering Manufacturing Development (EMD) Downselect from 2Q FY10 to 4Q FY10 and EMD from 2Q FY10 to 4Q FY10, MS C from 1Q FY13 to 4Q FY13. Due to delay of F-35 program, SDB II Navy Developmental Testing (DT) program had been moved to the right from FY14 to FY15; Navy Operational Testing (OT) from FY16 to FY17. As a result of the delay in F-35 DT and OT, DoN procurement has been moved from Lot 3/Low Rate Initial Production III to Lot 4/LRIP IV. Respective deliveries will now be FY17 to support the DoN Initial Operating Capability slip from FY16 to FY18.

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy									DATE: February 2011		
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 3071: <i>Very Low Collateral Damage Weapon</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3071: <i>Very Low Collateral Damage Weapon</i>	6.000	-	-	-	-	-	-	-	-	0.000	6.000
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

OSD Joint Rapid Acquisition Cell directed execution of joint Precision Lethality (PL) MK-82 Quick Reaction Capability (QRC) to support Joint Urgent Operational Need (JUON) CC-0381 for a Very Low Collateral Damage Weapon (VLCDW). Provides low lethality in far field using non-fragmenting carbon fiber MK-82 form factor case to minimize collateral damage outside near field blast effect. Provides high lethality in near field using a specially tuned variant of high impulse Multi-phase Blast Explosive (MBX) similar to Small Diameter Bomb (SDB).

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
Title: Very Low Collateral Damage Weapon	6.000	-	-
Articles:	0		
Description: Funding for development of a carbon fiber composite for General Purpose Bombs supporting a JUON for a VLCDW. The warhead matches the shape/mass properties of a MK82 such that it integrates with inventory of precision guidance kits and aircraft.			
FY 2010 Accomplishments: Initiated VLCDW program and accomplished SRR and PDR.			
Accomplishments/Planned Programs Subtotals	6.000	-	-

C. Other Program Funding Summary (\$ in Millions)

N/A

D. Acquisition Strategy

OSD Joint Rapid Acquisition Cell directed execution of joint PL MK-82 QRC to support JUON CC-0381 for a VLCDW.

E. Performance Metrics

Accomplished SRR and PDR.

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
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 3071: <i>Very Low Collateral Damage Weapon</i>

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
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 3071: <i>Very Low Collateral Damage Weapon</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Very Low Collateral Damage Weapon</i>				
Acquisition Milestones: JROC Direction	1	2010	1	2010
Acquisition Milestones: Navy IOC	4	2011	4	2011
Systems Development: Reviews: Systems Readiness Review (SRR)	1	2010	1	2010
Systems Development: Reviews: Preliminary Design Review (PDR)	3	2010	3	2010
Systems Development: Reviews: Critical Design Review (CDR)	1	2011	1	2011
Test & Evaluation: Technical Evaluation: Development Test (DT)	2	2011	3	2011

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy **DATE:** February 2011

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>
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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3072: <i>Small Diameter Bomb (SDB)</i>	11.494	44.091	37.555	-	37.555	36.335	44.439	90.902	75.869	Continuing	Continuing
Quantity of RDT&E Articles	20	13	80	0	80	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 executive 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-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, and F/A-18 E/F.

As a result of the Joint Strike Fighter program's restructure, SDB II's required funding for FY10 was reduced from it's enacted level. The following reprogrammings, FY10-10PA for Training and Recruiting and FY10-12 PA for Counter IED, realigned approximately \$27M from the SDB FY10 program. These reprogrammings were approved by all four (4) committees and have been implemented. The FY11 and FY12 request support the rephased SDB program.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
<p>Title: SDB II Weapon Support</p> <p align="right">Articles:</p> <p>Description: Funding provides for SDB Engineering Manufacturing and Development (EMD) efforts including weapon vendor support, test assets, and government support.</p> <p>FY 2010 Accomplishments: Funding provided for long lead of Inertial Measurement Vehicle test assets and Raytheon support of F-35 integration.</p> <p>FY 2011 Plans: Continue support of EMD; integration of SDB II with Joint Strike Fighter (JSF) B and C.</p> <p>FY 2012 Plans: Continue support of EMD; integration of SDB II with JSF B and C.</p>	6.853	32.577	20.388
	12	13	80
<p>Title: JSF Integration</p> <p align="right">Articles:</p>	0.382	11.514	17.167
	0	0	0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2010	FY 2011	FY 2012
<p>Description: Funding provided for integration of SDB II on F-35B and F-35C, specifically for Lockheed Martin to develop F-35 Block 3.X Operational Flight Program (OFP) software, flight missions, and support and analysis of missions.</p> <p>FY 2010 Accomplishments: Funding for F-35/BRU-61 adapter hardware, and initial JSF Block 3.X OFP design.</p> <p>FY 2011 Plans: Continue JSF Block 3.X OFP development and coding and support fit checks with SDB II Weapon Vendor (Raytheon).</p> <p>FY 2012 Plans: Continue JSF Block 3.X OFP development and coding and support fit checks with SDB II Weapon Vendor (Raytheon).</p>			
<p>Title: BRU-61/A SDB Smart Rack</p> <p align="right">Articles:</p>	4.259 8	-	-
<p>Description: Funding provided for BRU-61 SDB II Carriage System and integration into Navy environments.</p> <p>FY 2010 Accomplishments: Funding provided to purchase 8 BRU-61 Tactical units and associated efforts to complete Dual Power efforts for the F-35.</p>			
Accomplishments/Planned Programs Subtotals	11.494	44.091	37.555

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• WPN/223800: <i>Small Diameter Bomb II</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	29.244	947.254	976.498
• RDTE,AF/0604329F: <i>Small Diameter Bomb</i>	150.082	153.505	132.890	0.000	132.890	124.642	104.354	77.712	40.862	86.100	1,125.480
• MPAF/0207327F: <i>Small Diameter Bomb</i>	0.000	0.000	0.000	0.000	0.000	45.940	83.006	123.602	136.320	2,179.932	2,568.800

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 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-type contract for EMD, including FFP 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 (NTE) options.

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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 (EVM) will be implemented on the EMD contract with the successful offeror for the weapon development contract after Milestone B, currently scheduled for July 2010.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

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>
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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	10.137	9.027	Mar 2011	10.208	Jan 2012	-		10.208	75.117	104.489	104.489
Primary Hardware Development - SDB II EMD	C/FPIF	Raytheon:Tucson, AZ	3.098	10.461	Jun 2011	7.008	Jan 2012	-		7.008	66.685	87.252	87.252
BRU-61	C/CPFF	McDonnell Douglas Corp:St Charles, MO	4.259	-		-		-		-	0.000	4.259	4.259
Joint Miniature Munitions Bomb Rack Unit (JMM BRU)	C/FPIF	TBD:TBD	-	6.000	Apr 2011	-		-		-	0.000	6.000	6.000
Subtotal			28.732	25.488		17.216		-		17.216	141.802	213.238	213.238

Remarks

Primary Hardware Development Prior Years includes McDonnell Douglas Corp and Raytheon Missile Systems Primary H/W Development for the 42-month risk reduction phase, \$4.393M for each contractor and \$2.6M for Raytheon, specifically for Joint Surface Warfare (JSuW) efforts. (Funding for McDonnell Douglas represents the Boeing/Lockheed Martin team.) Primary H/W and Aircraft Integration to Raytheon in Tucson, AZ in FY10 and out reflects the winning SDB II contractor. Funding for Lockheed Martin F-35 does not include 3.X OFP nor Test missions which are represented in Support and Test sections. Beginning FY12, funding for BRU will be included in PU 3082.

Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	-	4.381	Mar 2011	7.705	Jan 2012	-		7.705	25.143	37.229	37.229
Studies & Analyses	C/CPFF	Johns Hopkins University:Baltimore, MD	2.695	-		-		-		-	0.000	2.695	2.695
Subtotal			17.410	4.381		7.705		-		7.705	25.143	54.639	54.639

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

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Support (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total		Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost				

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 Demonstrations (JCTD) incorporation of J.11 Message Set into Strike Weapons and Weapon Data Link Network efforts. Software Development for JSF is the Block 3.X Operational Flight Plan (OFP) and mission planning which supports the SDB II program.

Test and Evaluation (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total		Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost				
Developmental Test & Evaluation - JSuW/WDLN	Various	Various:Various	2.864	-		-		-		-	1.250	4.114		
Operational Test & Evaluation - SDB II	WR	COMOPTEVFOR:China Lake, CA	1.010	-		0.121	Nov 2011	-		0.121	14.437	15.568		
Developmental Test & Evaluation - SDB II	C/CPFF	Lockheed Martin:Ft. Worth, TX	-	1.600	Mar 2011	-		-		-	43.581	45.181	45.181	
SDB II Weapon Test Assets	C/FFP	Raytheon:Tucson, AZ	0.386	1.674	Jun 2011	5.995	Jan 2012	-		5.995	18.226	26.281	26.281	
JMM BRU Test Assets	C/FPIF	TBD:TBD	-	0.100	Apr 2011	-		-		-	0.000	0.100	0.100	
Subtotal			4.260	3.374		6.116		-		6.116	77.494	91.244		

Remarks
Developmental T&E Various in FY 2010 supports wind tunnel testing. Test assets include weapon assets required for Development Test and Operational Test.

Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total		Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost				
Contractor Engineering Services	Various	Various:Various	1.547	-		-		-		-	0.000	1.547	1.547	
Government Engineering Support	WR	NAWC WD:China Lake	16.578	3.095	Nov 2010	2.387	Nov 2011	-		2.387	14.399	36.459		
	WR	Various:Various	8.435	4.490	Nov 2010	2.780	Nov 2011	-		2.780	27.031	42.736		

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Exhibit R-4, RDT&E Schedule Profile: PB 2012 Navy		DATE: February 2011
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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy		DATE: February 2011
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: Milestone B (MS B)	4	2010	4	2010
Acquisition Milestones: Milestones: EMD Downselect	4	2010	4	2010
Acquisition Milestones: Milestones: MS C	4	2013	4	2013
Systems Development: Hardware Development: Risk Reduction Phase	1	2010	1	2010
Systems Development: Hardware Development: Engineering Manufacturing and Development (EMD)	4	2010	4	2016
Systems Development: Hardware Development: Dual Power BRU-61/A	1	2010	2	2012
Systems Development: Hardware Development: SDB II Qualification BRU-61/A	1	2010	4	2014
Systems Development: Reviews: Critical Design Review (CDR)	4	2010	4	2010
Test & Evaluation: Technical Evaluation: Developmental Test	3	2015	4	2016
Production Milestones: Contract Awards: Low Rate Initial Production (LRIP) I Contract Award (USAF Only) (Missile Procurement, AF)	4	2013	4	2013
Production Milestones: Contract Awards: LRIP II Contract Award (USAF Only) (Missile Procurement, AF)	4	2014	4	2014
Production Milestones: Contract Awards: LRIP III Contract Award (USAF Only) (Missile Procurement, AF)	4	2015	4	2015
Production Milestones: Contract Awards: LRIP IV Contract Award (USAF and DoN) (Missile Procurement, AF and WPN)	4	2016	4	2016
Deliveries: LRIP I Deliveries (USAF only)	4	2014	3	2015
Deliveries: LRIP II Deliveries (USAF only)	4	2015	3	2016
Deliveries: LRIP III Deliveries (USAF only)	4	2016	4	2016

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
3082: <i>JMM BRU</i>	-	-	10.080	-	10.080	9.548	25.177	3.308	2.340	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note
In FY 2011, a second PU 3082 was established for Joint Miniature Munitions Bomb Rack Unit (JMM BRU). Funding for this PU was transferred from PU 3072 for FY12 through FY16.

The FY11 funding (\$7.3M) currently reside in PU 3072, however, funding will be executed under the appropriate PU 3082.

A. Mission Description and Budget Item Justification

The Joint Miniature Munitions Bomb Rack Unit (JMM BRU) is a separate ACAT III program with Air Force oversight. It is required for carriage of the SDB II weapon. The SDB II Capability Development Document (CDD) states that it must be operable on the Miniature Munitions Smart Rack BRU-61/A. This rack is currently in production in the USAF, but has never been qualified to DoN environments, nor flown internally in any variant of F-35. The JMM BRU will bridge this gap and provide the DoN with a capable and qualified SDB II rack. Efforts include a Dual Power modification, ensuring adequate power supplied to BRU-61 to meet the SDB II operating environment. Efforts include a Dual Power modification, ensuring adequate power supplied to BRU-61 to meet the SDB II operating environment.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2010	FY 2011	FY 2012
Title: Joint Miniature Munitions Bomb Rack Unit (JMM BRU)	-	-	10.080
Articles:			0
Description: Funding provided for the SDB II Carriage System and integration into Navy environments.			
FY 2012 Plans: Continue Dual Power and Navy Qualification of the JMM BRU.			
Accomplishments/Planned Programs Subtotals	-	-	10.080

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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</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	10.080	18.862	Continuing	Continuing

D. Acquisition Strategy

The JMM BRU is an ACAT III program with Air Force oversight. Industry day was held 4Q FY 2010 in order to proceed and meet a Milestone B in 2Q FY 2011.

E. Performance Metrics

Earned Value Management (EVM) will be implemented on the EMD contract with the successful offeror for the weapon development contract after Milestone B, currently scheduled for April 2011.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy **DATE:** February 2011

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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Product Development (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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/CPFF	TBD:TBD	-	-		6.000	Apr 2012	-		6.000	23.300	29.300	29.300
Subtotal			-	-		6.000		-		6.000	23.300	29.300	29.300

Remarks
Funding provided to the successful offerer (to be determined 2Q FY 2011) 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 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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	-	-		-		-		-	4.001	4.001	4.001
Subtotal			-	-		-		-		-	4.001	4.001	4.001

Remarks
Funding provided to purchase JMM BRU test assets required for DT and OT.

Management Services (\$ in Millions)				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 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 Engineering Support	WR	NAWC WD:China Lake, CA	-	-		1.980	Nov 2011	-		1.980	6.000	7.980	
Government Engineering Support	WR	Various:Various	-	-		2.056	Nov 2011	-		2.056	10.000	12.056	
Travel	MIPR	ASC20OG:Eglin AFB, FL	-	-		0.044	Oct 2011	-		0.044	0.300	0.344	
Subtotal			-	-		4.080		-		4.080	16.300	20.380	

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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Navy **DATE:** February 2011

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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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Joint Miniature Munitions Bomb Rack Unit (JMM BRU)				
Acquisition Milestones: Milestones: Milestone B	3	2011	3	2011
Acquisition Milestones: Milestones: Milestone C	4	2014	4	2014
Systems Development: Hardware Development: Engineering Manufacturing and Development (EMD)	2	2011	4	2014
Systems Development: Reviews: Preliminary Design Review (PDR)	2	2012	2	2012
Systems Development: Reviews: Critical Design Review (CDR)	2	2013	2	2013
Test & Evaluation: Technical Evaluation: Design Qualification	2	2013	4	2014
Test & Evaluation: Technical Evaluation: Verification Test	2	2012	2	2013
Production Milestones: Contract Awards: Low Rate Initial Production (LRIP) I Award (APN7)	1	2015	1	2015
Production Milestones: Contract Awards: LRIP II Award (APN7)	1	2016	1	2016
Deliveries: Production Deliveries	2	2016	4	2016