

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification						DATE: <b>February 2007</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY /BA-5</b>			R-1 ITEM NOMENCLATURE 0604366N/STANDARD MISSILE IMPROVEMENTS					
<b>COST (\$ in Millions)</b>	<b>FY 2006</b>	<b>FY 2007</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>	<b>FY 2013</b>
Total PE Cost	148.482	176.467	231.791	243.885	168.586	71.790	36.118	29.560
0439/Standard Missile Improvements	33.993	8.009	24.729	12.184	6.413	0.410	0.417	0.426
3092/Standard Missile 6 Program	109.570	167.462	207.062	231.701	162.173	71.380	35.701	29.134
9999 / Congressional Adds	4.919	0.996	0.000	0.000	0.000	0.000	0.000	0.000
<b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b>								
Standard Missile-2 (SM-2) Block IIIB is the Navy's premier Anti-Air Warfare (AAW) missile, providing both area air defense for the fleet and self defense for individual Aegis CGs and DDGs, as required by the Joint Theater Air Missile Defense (TAMD), Mission Need Statement (MNS), Defense Planning Guide (DPG), Quality Deficiency Report (QDR), and Ship Class AAW Self Defense Capstone Requirements Document. Minor agility, fuzing, and computer modifications to SM-2 Block IIIB are under development to restore performance in the near term against a specific existing proliferated Anti-Ship Cruise Missiles (ASCM) threat. Continuous analysis of missile capabilities vs. ever-evolving and proliferating aircraft and ASCM and long-range planning are required to keep pace with the threat. In FY04 a new program started to develop a family of advanced surface missile systems. These new missile systems will leverage the Navy investment in the Aegis Weapon System, Cooperative Engagement Capability (CEC), and airborne early warning systems, which will be upgraded in concert with missile development to support a fully integrated extended range detect-to-engage capability. Funding for those upgrades are also included in this line. Together, this family of systems will provide the air superiority and the umbrella of protection against the full spectrum of projected future cruise missile (anti-ship and land attack) and manned aircraft threats discussed in the Joint TAMD MNS, DPG, QDR, and TAMD Capstone Requirements Document.								
<b>B. Program Change Summary:</b>								
		FY06	FY07	FY08	FY09			
Previous President's Budget		148.532	186.144	221.751	237.271			
PB 08 Budget Submission		148.482	176.467	231.791	243.885			
Total Adjustment		-0.050	-9.677	10.040	6.614			
Congressional Change		0.036	-9.667					
Cancelled Accounts		-0.182		0.788	1.220			
Reprogramming		4.000						
SBIR		-3.904						
Misc. Adjustments				0.435	1.153			
Programmatic Change				8.817	4.241			
Subtotal		-0.050	-9.667	10.040	6.614			

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EXHIBIT R-2a, RDT&E Project Justification							DATE: <b>February 2007</b>	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>		PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS			PROJECT NUMBER AND NAME 0439 Standard Missile Improvement			
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	<b>33.993</b>	<b>8.009</b>	<b>24.729</b>	<b>12.184</b>	<b>6.413</b>	<b>0.410</b>	<b>0.417</b>	<b>0.426</b>
RDT&E Articles Qty								

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

Minor modifications to SM-2 Block IIIB will restore performance in the near term against a specific existing proliferated ASCM threat. These include modifications to the MK45 Target Detection Device (TDD) to improve the lethal radius at low altitudes, guidance software to improve missile agility, and a new digital signal processor. Funding for the MK 45 Mod 14 TDD advanced technology development has been provided under Conventional Munitions, P.E. 0603609N, Project 1821, and the complementary engineering and transition to production efforts is funded in this line. Continuous analysis of missile capabilities vs. evolving and proliferating aircraft and anti-ship cruise missiles and long-range planning are required to keep pace with the threat.

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<b>B. Accomplishments/Planned Program</b>				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	0.150	0.179	0.000	0.000
RDT&E Articles Quantity				
Studies: FY06/FY07: Failure analyses, technology assessments, analyses of missile capability vs. threat, and long-range planning to keep pace with the evolving and proliferating threat.				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	11.024	0.000	0.000	0.000
RDT&E Articles Quantity				
Advanced Surface Missile Demonstration. FY06 - Continue transition of advanced technology, risk reduction, mitigation activities, and preparation for feasibility demo.				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	10.320	0.120	0.000	0.000
RDT&E Articles Quantity				
Replacement of obsolete Digital Signal Processor (DSP) for SM-2 Block IIIB. FY06: Round level integration. FY07: Critical Design Review.				

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<b>B. Accomplishments/Planned Program (Cont.)</b>				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	2.500	7.710	24.729	12.184
RDT&E Articles Quantity				
<p>DD(X) Pre Plan Product Improvement (P3I) Link Integration/Interrupted Continuous Wave Illuminator (ICWI)                  FY06/07: Define DD(X) functionality/interface requirements and engineering changes needed to make SM-2 BLK IIIB compatible with the ship combat system. Design missile hardware modifications and build engineering models. Develop ICWI software and associated software tooling. Integrate missile hardware and software into functional missile section.                  FY08: Integrate missile hardware and software into all up-round. Perform qualification testing and modified missile hardware and tactical software.                  FY09: Demonstrate capability during waterfront integration testing. Complete and approve product baseline changes for production cut-in.</p>				
	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	9.999	0.000	0.000	0.000
RDT&E Articles Quantity				
<p>Sea Base Terminal: FY06 - Conduct a demonstration of a capability to engage and intercept unitary short range Ballistic Missiles (BM) using an Aegis ship with a modified Linebacker Computer Program and modified SM-2 BLK IV missile against a Lance BM target. The FY06 tasks include modification and firing authorization of the Linebacker Computer Program and the modification and build-up of 2 modified SM-2 BLK IV missile rounds for a FY06 test.</p>				







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Exhibit R-3 Project Cost Analysis (page 3)											DATE: <b>February 2007</b>				
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME								
<b>RDT&amp;E, N / BA-5</b>			0604366N/STANDARD MISSILE IMPROVEMENTS				0439 Standard Missile Improvements								
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
Developmental Test & Evaluation	WX	NSWC Port Hueneme	0.145											Continuing	Continuing
	WX	WSMR	0.000											Continuing	Continuing
Operational Test & Evaluation															
Live Fire Test & Evaluation															
Test Assets															
Tooling															
GFE															
Award Fees															
Subtotal T&E			0.145	0.000		0.000				0.000		0.000		Continuing	
Remarks:															
Contractor Engineering Support	C/CPAF	various	1.212	0.634	01/06	0.161	01/07	0.491	01/08	0.242	01/09			Continuing	Continuing
Government Engineering Support															
Program Management Support	C/CPAF	various	1.824											Continuing	Continuing
Travel			0.048											Continuing	Continuing
Transportation															
SBIR Assessment															
Subtotal Management			3.084	0.634		0.161		0.491		0.242		0.000		Continuing	
Remarks:															
Total Cost			907.053	33.993		8.009		24.729		12.184		0.000		Continuing	
Remarks:															

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APPROPRIATION/BUDGET ACTIVITY <b>RESEARCH DEVELOPMENT TEST &amp; EVALUATION, NAVY / BA-5</b>				PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS		PROJECT NUMBER AND NAME 3092/Standard Missile 6 Program		
COST (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
3092/Standard Missile 6 Program	<b>109.570</b>	<b>167.462</b>	<b>207.062</b>	<b>231.701</b>	<b>162.173</b>	<b>71.380</b>	<b>35.701</b>	<b>29.134</b>
RDT&E Articles Qty								
<p><b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b></p> <p>This project addresses the Navy's requirement for an extended range area air defense missile. The SM-6 Extended Range Active Missile (ERAM) is the Navy's transformational enabler for the Sea Shield Operational Concept and enables the opportunity for Sea Basing Sea Strike. This effort includes risk reduction, System Development and Demonstration (SD&amp;D) design, insensitive munitions improvement, transition to production and operational test of the latest STANDARD Missile with the kinematic performance to defeat current and projected threats that possess low altitude, high altitude, high velocity and maneuver characteristics at the max kinematic range of the missile.</p> <p>This program leverages existing missile technology and advanced missile technology. It aligns missile technology roadmaps across the Services (NAVSEA, NAVAIR, USAF, USMC and USA) and missile variants within the Services, taking advantage of the Navy's investment in the Aegis Weapon System, CEC, and airborne early warning systems. This missile will provide an extended range engagement capability to provide the air superiority and the umbrella of protection for joint U.S. forces and allies against the full spectrum of manned-fixed and rotary-wing aircraft, unmanned aerial vehicles, and land attack and anti-ship cruise missiles in flight, thereby contributing to the continuous protection of forward deployed ground maneuver forces as well as theater rear assets as discussed in the Joint TAMD MNS, DPG, QDR, TAMD Capstone Requirements Document, Forward From the Sea, Joint Vision 2010/2020, the 2002/2003 Naval Transformational Roadmap and the Operational Requirements Document for SM-6 Extended Range Active Missile (ERAM).</p>								

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS	PROJECT NUMBER AND NAME 3092/Standard Missile 6 Program
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**B. Accomplishments/Planned Program**

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	6.807	9.307	10.426	8.696
RDT&E Articles Quantity				

SM-6/AWS & VLS Integration  
 FY06/FY07/FY08/FY09:Aegis Weapon System and MK 41 Vertical Launch System integration of SM-6.

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	97.163	149.155	166.436	189.105
RDT&E Articles Quantity				

Missile development.  
 \*FY 06: Design Readiness Review (Critical Design Review)  
 FY 07: Ground Integration and Test/Environmental Tests/Flight Test Round Integration and Round Level Test  
 FY 08: CTV-1 (Capture Test Vehicle) and GTV 1 -3 (Guided Test Vehicle) execution at WSMR. DT Flight at Sea.  
 FY 09: Low Rate Initial Production (LRIP) Milestone C.  
 \* This effort is also integrated with and funded from the Advanced Surface Missile System element of Project 0439

	FY 06	FY 07	FY 08	FY 09
Accomplishments/Effort/Subtotal Cost	5.600	9.000	30.200	33.900
RDT&E Articles Quantity				

SM-6 Insensitive Munitions (IM).  
 FY06 - Conduct feasibility studies and demonstrate critical technologies related to Insensitive Munitions (IM).  
 FY07 - Conduct composite case demonstrations. Wind pathfinder composite cases and test. Conduct IM tests.  
 FY08: Perform system design and development activities for tactical composite cases and motors.  
 FY09: Perform system design and development activities and full-up tests of composite motors. Prepare for qualification.

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<b>C. OTHER PROGRAM FUNDING SUMMARY:</b>										
Line Item No. & Name	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>To Complete</u>	<u>Total Cost</u>
WPN 2234/Standard Missile	0.000	0.000	0.000	123.086	198.475	262.909	553.585	580.679	3272.624	4991.358
QTY				20	40	60	142	150	788	
<b>D. ACQUISITION STRATEGY: *</b>										
SM-6 Acquisition Strategy signed by OSD AT&L 3 March 2004										
<b>E. MAJOR PERFORMERS: **</b>										
Raytheon Missile Systems, Tucson, Arizona.: SM-6 SD&D Contract awarded September 2004										

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APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME							
RDT&E, N / BA-5			0604366N/STANDARD MISSILE IMPROVEMENTS				3092/SM-6							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development														
Ancillary Hardware Development														
Component Development														
Design and Analysis	PR	RAYTHEON	58.081	87.740	11/05	138.398	11/06	175.324	11/07	176.529	11/08			
	PR	JHU/APL, Laurel MD	6.290	6.113	01/06	4.919	11/06	4.869	11/07	4.869	11/08	Continuing	Continuing	
	PR	MIT Lincoln Lab, Lexington, MA	0.350	0.200	05/06	0.100	11/06	0.100	11/07	0.100	11/08	Continuing	Continuing	
	WX	NAWC WD China Lake, CA	0.150	0.230	12/05	1.200	11/06	0.260	11/07	0.230	11/08	Continuing	Continuing	
	WX	NSWC Dahlgren, VA	1.630	1.268	12/05	1.162	11/06	0.830	11/07	2.153	11/08	Continuing	Continuing	
	WX	NSWC Indian Head, MD	0.238	0.540	12/05	0.450	11/06	0.550	11/07	0.550	11/08	Continuing	Continuing	
	WX	NSWC Port Hueneme, CA	1.146	0.647	12/05	1.328	11/06	1.018	11/07	0.947	11/08	Continuing	Continuing	
	WX	NSWC Crane, IN	0.020	0.240	12/05	0.040	11/06	0.040	11/07	0.040	11/08	Continuing	Continuing	
	MP	JSPO/EGLIN	1.868											
	PR	LOCKHEED MARTIN	3.854											
	WX	NSWC Corona	0.045	0.323	12/05	0.064	11/06	0.064	11/07	0.064	11/08			
	RX	ONR	0.300	0.150	02/06	0.150	11/06	0.150	11/07	0.150	11/08			
		NRL	0.090											
	WX	COMOPTEVFOR	0.250	0.150	12/05	0.160	11/06	0.160	11/07	0.160	11/08			
	WX	CARDEROCK	0.150											
	WX	NSWC/PT. MUGU	0.000	0.188	12/05	0.025	11/06	0.025	11/07	0.025	11/08			
	PR	BAE	0.200	0.510	02/06	0.510	11/06	0.525	11/07	0.325	11/08			
	MP	Army, Redstone Arsenal	0.050											
	WX	NAWCAD, Patuxent River	0.270	0.122	02/06	0.200	11/06	0.200	11/07	0.200	11/08			
	PR	CORVID	0.000	0.075		0.250	11/06	0.400	11/07	0.100	11/08			
	PR	PMS452	0.000	0.075	03/06									
	WX	SPAWAR	0.000	0.020	02/06									
Ship Integration	PR/WX	various	8.420	3.391	12/05	5.900	11/06	7.100	11/07	6.700	11/08	Continuing	Continuing	
	PR/WX	various	4.364	3.416	12/05	3.852	11/06	3.326	11/07	1.996	11/08			
Ship Suitability														
Systems Engineering														
Training Development														
Licenses														
Tooling														
GFE														
Award Fees														
Subtotal Product Development			87.766	105.398		158.708		194.941		195.138		Continuing	Continuing	
Remarks:														



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APPROPRIATION/BUDGET ACTIVITY				PROGRAM ELEMENT NUMBER AND NAME			PROJECT NUMBER AND NAME							
RDT&E, N / BA-5				0604366N/STANDARD MISSILE IMPROVEMENTS			3092/SM-6							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	FY 08 Cost	FY 08 Award Date	FY 09 Cost	FY 09 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WX	NSWC Port Hueneeme, CA	0.200								11/08	Continuing	Continuing	
		White Sands Missile Range, NM	0.050	1.500	12/05	6.152	11/06	4.819	11/07	3.761	11/08	Continuing	Continuing	
	WX	PMRF		0.050	12/05			4.700	11/07	30.200	11/08			
Targets														
Operational Test & Evaluation														
Live Fire Test & Evaluation														
Test Assets														
Tooling														
GFE														
Award Fees														
Subtotal T&E			0.250	1.550		6.152		9.519		33.961		Continuing	Continuing	
Remarks														
Contractor Engineering Support	CPAF	various	3.075	2.502	01/06	2.502	11/06	2.502	11/07	2.502	11/08	Continuing	Continuing	
Government Engineering Support														
Program Management Support														
Travel			0.153	0.120	11/05	0.100	11/06	0.100	11/07	0.100	11/08	Continuing	Continuing	
Labor (Research Personnel)														
SBIR Assessment														
Subtotal Management			3.228	2.622		2.602		2.602		2.602		Continuing	Continuing	
Remarks:														
Total Cost				109.570		167.462		207.062		231.701		Continuing	Continuing	
Remarks:														

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EXHIBIT R4, Schedule Profile															DATE: February 2007																	
APPROPRIATION/BUDGET /PROGRAM ELEMENT NUMBER AND NAME										PROJECT NUMBER AND NAME																						
RDT&E, N /BA-5										0604366N/STANDARD MISSILE IMPROVEMENTS										3092/SM-6												
Fiscal Year	2006				2007				2008				2009				2010				2011				2012				2013			
	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
<b>Acquisition Milestones</b>																																
Design Reviews/Decisions																																
Hardware Design, Prototype & Test																																
SW Design/FQT																																
Integration & Test																																
<b>Test &amp; Evaluation Milestones</b>																																
Development Test & Operational Test																																
<b>Production Milestones</b>																																
LRIP I FY 09																																
LRIP II FY 10																																
FRP FY 11																																

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

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Exhibit R-4a, Schedule Detail				DATE: <b>February 2007</b>				
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N /BA-5</b>			PROJECT NUMBER AND NAME 3092/SM-6					
Schedule Profile	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Acquisition Strategy								
J&A								
Milestone II (MSII)								
Contract Preparation								
SRR								
SFR								
Preliminary Design Review (PDR)								
Software Design/Final Qualification Test (FQT)	1Q-4Q	1Q-4Q	1Q-4Q	1Q				
Design Verification/Proof of Design (POD)	2Q-4Q							
Design Readiness Review (DRR)	2Q							
Proof of Manufacturing (POM)/Flight (FLT)	4Q	1Q-2Q						
Captive Carry		3Q-4Q	1Q-4Q					
CSEDS			4Q					
WIT					1Q & 3Q			
WSESRB	2Q	2Q	2Q	1Q-3Q		1Q-2Q	2Q	
Developmental Testing (DT-IIB1)			4Q	1Q				
Developmental Testing (DT-IIB2) Early Operational Assessment (EOA)			1Q-4Q	1Q				
Preproduction Readiness Review (PRR)		4Q						
Milestone C (MS C)				1Q				
Low-Rate Initial Production I (LRIP I AWARD)				1Q				
Developmental Testing (DT-IIC1)				4Q	1Q-3Q			
Low-Rate Initial Production II (LRIP II AWARD)					1Q			
Developmental Testing (DT-IIC2/OT-[1&2])					1Q-3Q			
Operational Testing (OT-[4-14])					2Q-4Q			
Low-Rate Initial Production I Delivery					4Q	1Q-4Q		
Low-Rate Initial Production II Delivery						4Q	1Q-4Q	
IOC					4Q			
Full Rate Production (FRP) Decision						1Q		
Full Rate Production Start							4Q	
First Deployment							4Q	

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APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N /BA-5</b>	PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS	PROJECT NUMBER AND NAME 9999 / Congressional Adds : Various
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**CONGRESSIONAL PLUS-UPS: \$5.027**

	FY 06	FY 07		
9559C				
MK41 Vertical Launching System Open Architecture	2.689			

Initiate the redesign and requirement development of the MK41 VLS Launch Control System.

	FY 06	FY 07		
9838N				
Alternative Thermal Battery Program	0.986	0.996		

Conduct a trade study analysis on an alternative thermal battery production capability.

	FY 06	FY 07		
3092C				
Insensitive munition improvements.	1.244			

Conduct feasibility studies utilizing COTS.