

CLASSIFICATION: UNCLASSIFIED

EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION **DATE**
February 2008

APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE**
RD TEN/BA 5 **0604366N/STANDARD MISSILE IMPROVEMENTS**

COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total PE Cost	177.128	226.841	234.653	165.590	68.905	33.453	27.073
0439 / Standard Missile Improvement	17.693	24.201	12.096	6.326	0.332	0.351	0.370
3092 / Standard Missile 6 Program	158.461	202.640	222.557	159.264	68.573	33.102	26.703
9999 / Congressional Add	0.974	0.000	0.000	0.000	0.000	0.000	0.000

A. MISSION DESCRIPTION:
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 Guidance (DPG), Quadrennial Defense Review (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 (AWS), 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.

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EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION (CONTINUATION) **DATE**
February 2008

APPROPRIATION/BUDGET ACTIVITY **R-1 ITEM NOMENCLATURE**
RD TEN/BA 5 **0604366N/STANDARD MISSILE IMPROVEMENTS**

B. PROGRAM CHANGE SUMMARY:

Funding:	FY 2007	FY 2008	FY 2009
2008 PRESIDENT'S BUDGET	176.467	231.791	243.885
2009 PRESIDENT'S BUDGET SUBMISSION	177.128	226.841	234.653
TOTAL ADJUSTMENTS	0.661	-4.950	-9.232
SUMMARY OF ADJUSTMENTS			
CANCELLED ACCOUNTS	-0.220		
EXECUTION REALIGNMENT	5.399	-3.477	-10.000
SBIR	-4.518		
NAVY WORKING CAPITAL FUND			3.344
REVISED ECONOMIC ASSUMPTIONS		-1.101	
CONTRACTOR EFFICIENCIES		-0.372	
PURCHASE INFLATION ADJUSTMENT			-1.373
NWCF RATE ADJUSTMENT			-1.203
SUBTOTAL	0.661	-4.950	-9.232

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 5		PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS			PROJECT NUMBER AND NAME 0439/STANDARD MISSILE IMPROVEMENT		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	17.693	24.201	12.096	6.326	0.332	0.351	0.370
RDT&E Articles Qty	0	0	0	0	0	0	0
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:							
<p>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.</p>							

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION				DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 5	PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS	PROJECT NUMBER AND NAME 0439/STANDARD MISSILE IMPROVEMENT		
B. ACCOMPLISHMENTS/PLANNED PROGRAM:				
		FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost		7.793	24.201	12.096
RDT&E Articles Quantity		0	0	0
DD(X) Pre Plan Product Improvement (P3I) Link Integration/Interrupted Continuous Wave Illuminator (ICWI)				
FY07: 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.				
		FY 2007	FY 2008	FY 2009
Accomplishments/Effort/Subtotal Cost		9.900	0.000	0.000
RDT&E Articles Quantity		0	0	0
Sea Based Terminal: FY07: Identify and Develop Modification to the Aegis Combat System leading to the integration of a Sea-Based terminal phase ballistic missile defense (BMD) capability.				

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<p>C. OTHER PROGRAM FUNDING SUMMARY: Not applicable.</p> <p>D. ACQUISITION STRATEGY: Development is expected to conclude by FY10 for the P3I and SM-2 IIIB ICWI. Production representative missiles will be built between FY10 & FY12 for the 21 missiles that the DDG 1000 require for Developmental Test & Operational Test (DT&OT) in FY12 and FY13. SM2 IIIB will have dual use on AEGIS Cruisers/Destroyers & DDG 1000.</p> <p>E. MAJOR PERFORMERS: Commencing in FY04, Raytheon Missile Systems, Tucson, AZ is the prime contractor for a live fire demonstration for Advanced Surface Missile System.</p>			

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE		
										February 2008		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME					
RD TEN/BA 5		0604366N/STANDARD MISSILE IMPROVEMENTS					0439/STANDARD MISSILE IMPROVEMENT					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost (\$000)	FY 2007 Cost (\$000)	FY 2007 Award Date	FY 2008 Cost (\$000)	FY 2008 Award Date	FY 2009 Cost (\$000)	FY 2009 Award Date	Cost to Complete (\$000)	Total Cost (\$000)	Target Value of Contract
Design and Analysis	SS/CPAF	RAYTHEON	129.593	6.793	DEC-06	23.451	NOV-07	12.096	NOV-08	CONT	CONT	0.000
	CPFF	JHU/APL	3.677	0.000		0.000		0.000		0.000	3.677	0.000
	MIPR	MIT	0.050	0.000		0.000		0.000		0.000	0.050	0.000
	WR	NSWC/DAHLGREN	786.932	0.000		0.000		0.000		0.000	786.932	0.000
	WR	NSWC/IH	0.340	0.000		0.000		0.000		0.000	0.340	0.000
	WR	NAWC/CHINALAKE	2.095	0.000		0.000		0.000		0.000	2.095	0.000
	CPFF	LOCKHEED MARTIN	3.275	9.900	APR-07	0.750	NOV-07	0.000		0.000	13.925	0.000
	WR	CNO	0.010	0.000		0.000		0.000		0.000	0.010	0.000
	ALLOT	CMDP	4.795	0.000		0.000		0.000		0.000	4.795	0.000
	WR	NSWC/CRANE	0.257	0.000		0.000		0.000		0.000	0.257	0.000
	WR	DOI&CNAP	0.487	0.000		0.000		0.000		0.000	0.487	0.000
	WR	COMPTEVFOR	0.100	0.000		0.000		0.000		0.000	0.100	0.000
	CPFF	LOCKHEED MARTIN	1.000	1.000	MAY-07	0.000		0.000		0.000	2.000	0.000
	WR	CARDEROCK	0.050	0.000		0.000		0.000		0.000	0.050	0.000
	WR	NWAS/CORONA	0.325	0.000		0.000		0.000		0.000	0.325	0.000
	CPFF	CORVID	0.100	0.000		0.000		0.000		0.000	0.100	0.000
	CPFF	BAE	0.050	0.000		0.000		0.000		0.000	0.050	0.000
	MIPR	MDA	1.257	0.000		0.000		0.000		0.000	1.257	0.000
Subtotal Product Development			934.393	17.693		24.201		12.096		CONT	CONT	0.000
Remarks:												
Subtotal Support Costs			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
DEVELOPMENTAL TEST & EVALUATION	WR	NSWC/PHD	0.185	0.000		0.000		0.000		0.000	0.185	0.000
	WR	WSMR	1.600	0.000		0.000		0.000		0.000	1.600	0.000
	WR	PT MUGU	0.098	0.000		0.000		0.000		0.000	0.098	0.000
	WR	PMRF	0.338	0.000		0.000		0.000		0.000	0.338	0.000
	WR	NSWC/PHD	0.567	0.000		0.000		0.000		0.000	0.567	0.000

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 5		PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS					PROJECT NUMBER AND NAME 0439/STANDARD MISSILE IMPROVEMENT					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost (\$000)	FY 2007 Cost (\$000)	FY 2007 Award Date	FY 2008 Cost (\$000)	FY 2008 Award Date	FY 2009 Cost (\$000)	FY 2009 Award Date	Cost to Complete (\$000)	Total Cost (\$000)	Target Value of Contract
Subtotal Test and Evaluation			2.788	0.000		0.000		0.000		0.000	2.788	0.000
Remarks:												
CONTRACTOR ENGINEERING SUPPORT	C/CPAF	VARIOUS	1.993	0.000		0.000		0.000		0.000	1.993	0.000
PROGRAM MANAGEMENT SUPPORT	C/CPAF	VARIOUS	1.824	0.000		0.000		0.000		0.000	1.824	0.000
TRAVEL	ALLOT		0.048	0.000		0.000		0.000		0.000	0.048	0.000
Subtotal Management Services			3.865	0.000		0.000		0.000		0.000	3.865	0.000
Remarks:												
Total Cost			941.046	17.693		24.201		12.096		CONT	CONT	0.000

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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION					DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 5		PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS			PROJECT NUMBER AND NAME 3092/Standard Missile 6 Program		
COST (In Millions)	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Project Cost	158.461	202.640	222.557	159.264	68.573	33.102	26.703
RDT&E Articles Qty	0	0	0	0	0	0	0
A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:							
<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&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 (AWS), 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 RD TEN/BA 5	PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS	PROJECT NUMBER AND NAME 3092/Standard Missile 6 Program		
B. ACCOMPLISHMENTS/PLANNED PROGRAM:				
	FY 2007	FY 2008	FY 2009	
Accomplishments/Effort/Subtotal Cost	9.307	10.618	10.223	
RDT&E Articles Quantity	0	0	0	
SM-6/AWS & VLS Integration FY07/FY08/FY09: Aegis Weapon System and MK 41 Vertical Launch System integration of SM-6.				
	FY 2007	FY 2008	FY 2009	
Accomplishments/Effort/Subtotal Cost	140.154	161.822	188.434	
RDT&E Articles Quantity	0	0	0	
Missile development. 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 White Sands Missile Range (WSMR). DT Flight at Sea. FY 09: Low Rate Initial Production (LRIP) Milestone C.				
	FY 2007	FY 2008	FY 2009	
Accomplishments/Effort/Subtotal Cost	9.000	30.200	23.900	
RDT&E Articles Quantity	0	0	0	
SM-6 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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EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION (CONTINUATION)							DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 5	PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS				PROJECT NUMBER AND NAME 3092/Standard Missile 6 Program				
C. OTHER PROGRAM FUNDING SUMMARY:									
Line Item No. and Name	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Complete	Total Cost
WPN 2234/Standard Missile	0.000	0.000	122.825	198.271	262.990	536.058	613.650	3,271.616	5,005.410
QTY			20	40	60	137	158	785	
D. ACQUISITION STRATEGY:									
<p>The Navy awarded a contract for SM-6 development, design, testing, production and support (including spares) to Raytheon using other than full and open competition pursuant to the authority of 10 U.S.C. 2304(c)(1).</p> <p>The active seeker guidance section for the SM-6 will be built in a joint production facility with the Advance Medium Range Air to Air Missile (AMRAAM). The remainder of the SM-6 AUR components will be produced in existing production facilities that are currently producing other variants of the STANDARD missile.</p> <p>No new facilities will be required for SM-6 production, and existing equipment will be used whenever possible.</p> <p>No source other than Raytheon is capable of producing a shipboard ERAM missile within the Navy's schedule.</p> <p>SM-6 Acquisition Strategy signed by OSD AT&L 3 March 2004</p>									
E. MAJOR PERFORMERS:									
Raytheon Missile Systems, Tucson, Arizona.: SM-6 SD&D Contract awarded September 2004									

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE		
										February 2008		
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME					
RD TEN/BA 5		0604366N/STANDARD MISSILE IMPROVEMENTS					3092/Standard Missile 6 Program					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost (\$000)	FY 2007 Cost (\$000)	FY 2007 Award Date	FY 2008 Cost (\$000)	FY 2008 Award Date	FY 2009 Cost (\$000)	FY 2009 Award Date	Cost to Complete (\$000)	Total Cost (\$000)	Target Value of Contract
DESIGN AND ANALYSIS	CPIF	RAYTHEON	137.928	125.092	NOV-06	168.165	NOV-07	157.663	NOV-08	CONT	CONT	0.000
	CPFF	JHU/APL, LAUREL MD	13.263	5.569	NOV-06	5.008	NOV-07	5.560	NOV-08	CONT	CONT	0.000
	MIPR	MIT LINCOLN LAB, LEXINGTON	0.550	0.000	NOV-06	0.000		0.000		0.000	0.550	0.000
	WR	NAWC WD CHINALAKE, CA	0.722	0.285	NOV-06	0.300	NOV-07	0.300	NOV-08	CONT	CONT	0.000
	WR	NSWC DAHLGEN, VA	2.735	1.694	NOV-06	1.692	NOV-07	2.513	NOV-08	CONT	CONT	0.000
	WR	NSWC INDIAN HEAD, MD	0.843	0.834	NOV-06	0.500	NOV-07	0.527	NOV-08	CONT	CONT	0.000
	WR	NSWC PORT HUENEME, CA	2.434	1.302	NOV-06	1.819	NOV-07	2.079	NOV-08	CONT	CONT	0.000
	WR	NSWC CRANE, IN	0.530	0.151	NOV-06	0.157	NOV-07	0.386	NOV-08	CONT	CONT	0.000
	MIPR	JSPO/EGLIN EDWARDS AFB	2.002	0.200	MAY-07	0.850	NOV-07	0.950	NOV-08	CONT	CONT	0.000
	CPFF	LOCKHEED	3.854	1.190	MAY-07	0.000		0.000		0.000	5.044	0.000
	WR	NSWC CORONA	0.164	1.099	NOV-06	0.355	NOV-07	0.831	NOV-08	CONT	CONT	0.000
	REQN	ONR	0.450	0.300	NOV-06	0.150	NOV-07	0.000		0.000	0.900	0.000
	REQN	NRL	0.090	0.000		0.000		0.000		0.000	0.090	0.000
	WR	COMPTEVFOR	0.400	0.150	NOV-06	0.260	NOV-07	0.260	NOV-08	CONT	CONT	0.000
	WR	CARDEROCK	0.300	0.125	MAR-07	0.100	NOV-07	0.100	NOV-08	CONT	CONT	0.000
	WR	NSWC/PT MUGU	0.188	0.025	NOV-06	0.000	NOV-07	0.025	NOV-08	CONT	CONT	0.000
	CPFF	BAE	0.720	1.260	NOV-06	1.425	NOV-07	1.100	NOV-08	CONT	CONT	0.000
	MIPR	ARMY, REDSTONE ARSENAL	0.050	0.000		0.000		0.000		0.000	0.050	0.000
	WR	NAWCAD, PATUXENT RIVER	0.392	0.000		0.000		0.000		0.000	0.392	0.000
	CPFF	CORVID	0.150	0.400	NOV-06	0.100	NOV-07	0.100	NOV-08	CONT	CONT	0.000
	CPFF	RNB	0.010	0.000		0.000		0.000		0.000	0.010	0.000
	WR	SPAWAR	0.007	0.000		0.000		0.000		0.000	0.007	0.000
	WR	ARMY CECOM	0.066	0.000		0.000		0.000		0.000	0.066	0.000
	WR	GENERAL DYNAMICS	0.000	1.660	MAR-07	0.000		0.000		0.000	1.660	0.000
Ship Integration	CPFF/WR	Various (IWS 1A)	16.588	5.400	NOV-06	5.940	NOV-07	6.380	NOV-08	CONT	CONT	0.000
	CPAF/WR	Various (VLS)	7.779	3.907	NOV-06	4.678	NOV-07	3.843	NOV-08	CONT	CONT	0.000
Subtotal Product Development			192.215	150.643		191.499		182.617		CONT	CONT	0.000
Remarks:												

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EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS										DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RDTEN/BA 5		PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS					PROJECT NUMBER AND NAME 3092/Standard Missile 6 Program					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost (\$000)	FY 2007 Cost (\$000)	FY 2007 Award Date	FY 2008 Cost (\$000)	FY 2008 Award Date	FY 2009 Cost (\$000)	FY 2009 Award Date	Cost to Complete (\$000)	Total Cost (\$000)	Target Value of Contract
Subtotal Support Costs			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
Developmental Test & Evaluation	WR	NSWC Port Hueneme, CA	0.200	0.000		0.000		0.000		0.000	0.200	0.000
	WR	White Sands Missile Range, NM	1.550	5.130	NOV-06	4.091	NOV-07	5.690	NOV-08	CONT	CONT	0.000
	WR	PMRF	0.035	0.000		3.300	NOV-07	30.200	NOV-08	CONT	CONT	0.000
	WR	PT. MUGU	0.000	0.369	NOV-06	0.400	NOV-07	0.400	NOV-08	CONT	CONT	0.000
Subtotal Test and Evaluation			1.785	5.499		7.791		36.290		CONT	CONT	0.000
Remarks:												
Contractor Engineering Services	CPAF	Various	6.511	2.194	NOV-06	3.200	NOV-07	3.500	NOV-08	CONT	CONT	0.000
Travel			0.303	0.125	NOV-06	0.150	NOV-07	0.150	NOV-08	CONT	CONT	0.000
Subtotal Management Services			6.814	2.319		3.350		3.650		CONT	CONT	0.000
Remarks:												
Total Cost			200.814	158.461		202.640		222.557		CONT	CONT	0.000

CLASSIFICATION: UNCLASSIFIED		EXHIBIT R-4, SCHEDULE PROFILE												DATE February 2008														
APPROPRIATION/BUDGET ACTIVITY RDTE/BA 5		PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS						PROJECT NUMBER AND NAME 3092/Standard Missile 6 Program																				
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /BA-5		PROJECT NUMBER AND NAME 3092/SM-6																										
Fiscal Year	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
Acquisition Milestones								▲ MSC Review								FRP Decision				▲ IOC								▲ FRP START/DEPLOYMENT
Design Reviews/Decisions	▲ WSESRB				▲ WSESRB				▲ WSESRB	▲ (Q1-Q8)							▲ WSESRB	▲ (Q1-Q2)			▲ WSESRB							
Hardware Design, Prototype & Test	HIL Development																											
	POM/FL																											
Tactical SW Development/ Final Qualification Test (FQT)	Tactical S/W Development (FQT)																											
Integration & Test					Captive Carry																							
								▲ CSEDS								▲ DT WIT				▲ OT WIT								
Flight Tests																												
DT IIB1 (CTV) DT IIB2 (GTV)																												
Test & Evaluation Milestones																												
Development Test (DT) DT IIC1/DT IIC2 Operational Test (OT) OT (1-14)																												
Production Milestones																												
LRIP I FY 09																												
LRIP II FY 10																												
LRIP III FY 11																												
FRP Award FY12																												

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

CLASSIFICATION:		UNCLASSIFIED						
EXHIBIT R-4a, SCHEDULE DETAIL						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 5		PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS			PROJECT NUMBER AND NAME 3092/Standard Missile 6 Program			
Schedule Profile		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)								
Hardware In the Loop (HIL) Development		1Q-3Q						
Software Design/Final Qualification Test (FQT)		1Q-4Q	1Q-4Q	1Q				
Design Verification/Proof of Design (POD)								
Design Readiness Review (DRR)								
Proof of Manufacturing (POM)/Flight (FLT)		1Q-2Q						
Captive Carry		3Q-4Q	1Q-4Q					
CSEDS			3Q					
WIT				4Q	2Q			
Flight Test DT IIB1 (CTV) DTB IIB2 (GTV)		4Q	1Q-4Q	1Q				
WSES RB		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)		3Q-4Q						
Milestone C (MS C)			4Q					
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			
Low-Rate Initial Production III (LRIP III Award)						1Q		
Developmental Testing (DT-IIC2/OT-[1&2])					1Q-3Q			
Operational Testing (OT-[3-12 & 2 Spares])					2Q-4Q			
Low-Rate Initial Production I Delivery					4Q	1Q-4Q		
Low-Rate Initial Production II Delivery							1Q-4Q	
Low-Rate Initial Production III Delivery								1Q-4Q

CLASSIFICATION:		UNCLASSIFIED						
EXHIBIT R-4a, SCHEDULE DETAIL (CONTINUATION)						DATE February 2008		
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 5		PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS			PROJECT NUMBER AND NAME 3092/Standard Missile 6 Program			
Schedule Profile		FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
IOC					4Q			
Full-Rate Production (FRP) Decision					4Q			
Full-Rate Production (FRP) Award							1Q	
Full-Rate Production (FRP) Start							4Q	
First Deployment							4Q	

CLASSIFICATION:		UNCLASSIFIED		
EXHIBIT R-2a, RDT&E PROJECT JUSTIFICATION				DATE February 2008
APPROPRIATION/BUDGET ACTIVITY RD TEN/BA 5	PROGRAM ELEMENT NUMBER AND NAME 0604366N/STANDARD MISSILE IMPROVEMENTS	PROJECT NUMBER AND NAME 9999/CONGRESSIONAL ADDS		
B. ACCOMPLISHMENTS/PLANNED PROGRAM:				
		FY 2007	FY 2008	FY 2009
Alternative Thermal Battery Program 9838N		0.974	0.000	0.000
RDT&E Articles Quantity		0	0	0
Conduct a trade study analysis on an alternative thermal battery production capability.				