

**CLASSIFICATION:****UNCLASSIFIED****EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION**DATE  
May 2009

APPROPRIATION/BUDGET ACTIVITY

**RD TEN/BA 5**

R-1 ITEM NOMENCLATURE

**0604366N/STANDARD MISSILE IMPROVEMENTS**

COST (In Millions)

FY 2008

FY 2009

FY 2010

Total PE Cost

214.644

236.976

182.197

0439 / STANDARD MISSILE IMPROVEMENT

23.966

12.058

30.353

3092 / Standard Missile 6 Program

190.678

221.926

151.844

9999 / CONGRESSIONAL ADDS

0.000

2.992

0.000

**A. MISSION DESCRIPTION:**

Standard Missile (SM) 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. Agility, fuzing, and computer modifications to SM are in development to restore performance in the near term against a specific existing proliferating Anti-Ship Cruise Missile (ASCM) threat. Continuous analysis of missile capabilities vs. ever-evolving and proliferating aircraft and ASCM threats and long-range planning are required to keep pace with the threat.

In FY04 the STANDARD Missile 6 (SM-6) program was started to develop an advanced surface missile system with an active seeker and an extended range. The SM-6 missile system 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. SM-6 is the enabler for Integrated Fire Control (IFC). Funding to support those upgrades are also included in this line. SM-6 is currently executing the ground based flight test program and planning for the DT/OT flight test phase of the SD&D effort. 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.

**CLASSIFICATION:****UNCLASSIFIED****EXHIBIT R-2, RDT&E BUDGET ITEM JUSTIFICATION (CONTINUATION)**

DATE

May 2009

APPROPRIATION/BUDGET ACTIVITY

**RD TEN/BA 5**

R-1 ITEM NOMENCLATURE

**0604366N/STANDARD MISSILE IMPROVEMENTS****B. PROGRAM CHANGE SUMMARY:**

Funding:	FY 2008	FY 2009	FY 2010
FY09 President's Budget	226.841	234.653	165.590
FY10 President's Budget	214.644	236.976	182.197
Total Adjustments	-12.197	2.323	16.607
(U) Summary of Adjustments			
Congressional Rescissions	0.000	0.000	0.000
Congressional Adjustments	0.000	-0.643	0.000
SBIR/STTR/FTT Assessment	-1.908	0.000	0.000
Program Adjustments	-10.289	0.000	-0.506
Rate/Misc Adjustments	0.000	-0.034	-4.144
SM2 and ESSM P3I Interface	0.000	0.000	24.500
SM6 Development Reduction	0.000	0.000	-3.243
Extensible Launching Systems	0.000	3.000	0.000
Total	-12.197	2.323	16.607

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>					
<b>EXHIBIT R-2a, RDT&amp;E PROJECT JUSTIFICATION</b>					<b>DATE</b> May 2009		
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>RD TEN/BA 5</b>		<b>PROGRAM ELEMENT NUMBER AND NAME</b> <b>0604366N/STANDARD MISSILE IMPROVEMENTS</b>			<b>PROJECT NUMBER AND NAME</b> <b>0439/STANDARD MISSILE IMPROVEMENT</b>		
<b>COST (In Millions)</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>				
Project Cost	23.966	12.058	30.353				
RDT&E Articles Qty	0	0	0				
<b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b>							
<p>Modifications to SM-2 BLK IIIB are required for use on DDG-1000 class destroyers. The Joint Universal Waveform Link (JUWL) will be integrated with ESSM and Standard Missile to communicate with the DDG-1000 SPY-3 radar. SM-2 missile software will be updated with interrupted continuous wave illumination (ICWI) in order to allow operation with DDG-1000.</p>							

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APPROPRIATION/BUDGET ACTIVITY <b>RD TEN/BA 5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604366N/STANDARD MISSILE IMPROVEMENTS</b>	PROJECT NUMBER AND NAME <b>0439/STANDARD MISSILE IMPROVEMENT</b>	
<b>B. ACCOMPLISHMENTS/PLANNED PROGRAM:</b>			
	FY 2008	FY 2009	FY 2010
<b>Accomplishments/Effort/Subtotal Cost</b>	23.966	12.058	30.353
RDT&E Articles Quantity	0	0	0
DD(X) Pre Plan Product Improvement (P3I) Link Integration/Interrupted Continuous Wave Illuminator (ICWI) FY08: Continued P3I and ICWI integration. FY09: ESSM takes delivery of Proof of Design (POD) hardware, integrates tactical software and begins testing. SM-2 continues development. FY10: ESSM continues POD testing, including qualification testing, and completes test equipment modifications. SM-2 data link and IIIB ICWI development continues and EDM hardware is placed on order.			
<b>C. OTHER PROGRAM FUNDING SUMMARY:</b> Not applicable.			
<b>D. ACQUISITION STRATEGY:</b> Development is expected to be on going for the X-band (JUWL) and SM-2 IIIB ICWI.			
<b>E. MAJOR PERFORMERS:</b> Raytheon Missile Systems, Tucson, AZ is the prime contractor.			

CLASSIFICATION:		UNCLASSIFIED								
EXHIBIT R-3, RDT&E PROJECT COST ANALYSIS							DATE May 2009			
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 Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost (\$000)	FY 2009 Cost (\$000)	FY 2009 Award Date	FY 2010 Cost (\$000)	FY 2010 Award Date		Total Cost (\$000)	Target Value of Contract
Design and Analysis	SS/CPAF	RAYTHEON	154.544	11.016	NOV-08	27.486	NOV-09		CONT	0.000
	CPFF	JHU/APL	3.750	0.500	NOV-08	1.900	NOV-09		6.150	0.000
	MIPR	MIT	0.050	0.000		0.000			0.050	0.000
	WR	NSWC/DAHLGREN	786.962	0.100	NOV-08	0.100	NOV-09		787.414	0.000
	WR	NSWC/IH	0.340	0.000		0.000			0.940	0.000
	WR	NAWC/CHINALAKE	2.730	0.000		0.000			3.030	0.000
	CPFF	LOCKHEED MARTIN	17.775	0.000		0.000			17.775	0.000
	WR	CNO	0.010	0.000		0.000			0.010	0.000
	ALLOT	CMDP	4.795	0.000		0.000			4.795	0.000
	WR	NSWC/CRANE	0.257	0.000		0.000			0.257	0.000
	WR	DOI&CNAP	0.487	0.000		0.000			0.487	0.000
	WR	COMPTEVFOR	0.100	0.000		0.000			0.100	0.000
	CPFF	LOCKHEED MARTIN	2.000	0.000		0.000			2.000	0.000
	WR	CARDEROCK	0.050	0.000		0.000			0.050	0.000
	WR	NWAS/CORONA	0.325	0.000		0.000			0.325	0.000
	CPFF	CORVID	0.100	0.000		0.000			0.100	0.000
	CPFF	BAE	0.050	0.050	NOV-08	0.100	NOV-09		0.251	0.000
	MIPR	MDA	1.257	0.000		0.000			1.257	0.000
<b>Subtotal Product Development</b>			<b>975.582</b>	<b>11.666</b>		<b>29.586</b>			<b>CONT</b>	<b>0.000</b>
Remarks:										
<b>Subtotal Support Costs</b>			<b>0.000</b>	<b>0.000</b>		<b>0.000</b>			<b>0.000</b>	<b>0.000</b>
Remarks:										
DEVELOPMENTAL TEST & EVALUATION	WR	NSWC/PHD	0.185	0.150	NOV-08	0.150	NOV-09		0.485	0.000
	WR	WSMR	1.600	0.000		0.000			1.600	0.000
	WR	PT MUGU	0.098	0.000		0.000			0.098	0.000
	WR	PMRF	0.338	0.000		0.000			0.338	0.000
	WR	NSWC/PHD	0.567	0.000		0.000			0.567	0.000

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<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>RD TEN/BA 5</b>		<b>PROGRAM ELEMENT NUMBER AND NAME</b> <b>0604366N/STANDARD MISSILE IMPROVEMENTS</b>			<b>PROJECT NUMBER AND NAME</b> <b>0439/STANDARD MISSILE IMPROVEMENT</b>					
<b>Cost Categories</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total PY Cost (\$000)</b>	<b>FY 2009 Cost (\$000)</b>	<b>FY 2009 Award Date</b>	<b>FY 2010 Cost (\$000)</b>	<b>FY 2010 Award Date</b>		<b>Total Cost (\$000)</b>	<b>Target Value of Contract</b>
<b>Subtotal Test and Evaluation</b>			<b>2.788</b>	<b>0.150</b>		<b>0.150</b>			<b>3.088</b>	<b>0.000</b>
Remarks:										
CONTRACTOR ENGINEERING SUPPORT	C/CPAF	VARIOUS	1.993	0.000		0.000			1.993	0.000
PROGRAM MANAGEMENT SUPPORT	C/CPAF	VARIOUS	2.294	0.242	JAN-09	0.617	JAN-10		3.623	0.000
TRAVEL	ALLOT		0.048	0.000		0.000			0.048	0.000
<b>Subtotal Management Services</b>			<b>4.335</b>	<b>0.242</b>		<b>0.617</b>			<b>5.664</b>	<b>0.000</b>
Remarks:										
<b>Total Cost</b>			<b>982.705</b>	<b>12.058</b>		<b>30.353</b>			<b>CONT</b>	<b>0.000</b>

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<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>RD TEN/BA 5</b>		<b>PROGRAM ELEMENT NUMBER AND NAME</b> <b>0604366N/STANDARD MISSILE IMPROVEMENTS</b>			<b>PROJECT NUMBER AND NAME</b> <b>3092/Standard Missile 6 Program</b>		
<b>COST (In Millions)</b>	<b>FY 2008</b>	<b>FY 2009</b>	<b>FY 2010</b>				
Project Cost	190.678	221.926	151.844				
RDT&E Articles Qty	0	0	0				
<b>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:</b>							
<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> <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, and high velocity and maneuver characteristics at the max kinematic range of the missile. SM-6 is currently executing the ground based flight test program and planning for the DT/OT flight test phase of the SD&amp;D effort.</p> <p>Joint Integrated Fire Enhancement funding is JROC directed for the integration of the Joint Land Attack Elevated Netted Sensor (JLENS) into the Naval Integrated Fire Control-Counter Air (NIFC-CA) kill chain; specifically, SM-6 integration with the JLENS and the Aegis Weapon System (AWS). The funding identified in this budget is part of an integrated funding package that also includes funding for PEO IWS 1.0, PEO IWS 6.0, PEO IWS 7.0 and the Army's Cruise Missile Defense Systems JLENS Product Office.</p>							

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<b>B. ACCOMPLISHMENTS/PLANNED PROGRAM:</b>			
	FY 2008	FY 2009	FY 2010
<b>Accomplishments/Effort/Subtotal Cost</b>	0.788	1.220	2.581
RDT&E Articles Quantity	0	0	0
Joint Integrated Fire Enhancement FY08/FY09: Modeling and Simulation Integration. FY 10: Initial scenario and test planning development and integration and test efforts.			
	FY 2008	FY 2009	FY 2010
<b>Accomplishments/Effort/Subtotal Cost</b>	17.647	14.122	12.858
RDT&E Articles Quantity	0	0	0
SM-6/AWS & VLS Integration FY08/FY09/FY10: Aegis Weapon System and MK 41 Vertical Launch System integration of SM-6.			
	FY 2008	FY 2009	FY 2010
<b>Accomplishments/Effort/Subtotal Cost</b>	152.787	184.148	111.305
RDT&E Articles Quantity	0	0	0
Missile Development FY 08: GTV 1 - 2 (Guided Test Vehicle) execution at White Sands Missile Range (WSMR). DT Flight at Sea preparation. FY 09: CTV-1 (Capture Test Vehicle), GTV-3; Low Rate Initial Production (LRIP) Milestone C prep and execution; DT/OT Flight test preparation and targets prep. FY 10: DT/OT Flight Test execution at Pacific Missile Range Facility (PMRF); 17 flight tests planned.			
	FY 2008	FY 2009	FY 2010
<b>Accomplishments/Effort/Subtotal Cost</b>	19.456	22.436	25.100
RDT&E Articles Quantity	0	0	0
SM-6 Insensitive Munitions (IM) FY08: Perform system design and development activities for tactical composite cases and motors. FY09: Perform system design and development activities on the IM designs. Begin testing of the MK72 composite case including ambient and environmental tests and a propellant mitigation capable MK72. Start forward dome demonstrations. FY10: Perform (3) Slow Cook Off (SCO) tests: (1) strip down demo with MK104/MK72 with dual chemical sensor initiators and (2) with warhead-full up missile. Perform tactical MK72 composite case tests with forward dome functionality, then with forward dome capable cases.			

<b>CLASSIFICATION:</b>	<b>UNCLASSIFIED</b>
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<b>EXHIBIT R-2a, RDT&amp;E PROJECT JUSTIFICATION (CONTINUATION)</b>	<b>DATE</b> May 2009
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<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>RD TEN/BA 5</b>	<b>PROGRAM ELEMENT NUMBER AND NAME</b> <b>0604366N/STANDARD MISSILE IMPROVEMENTS</b>	<b>PROJECT NUMBER AND NAME</b> <b>3092/Standard Missile 6 Program</b>
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**C. OTHER PROGRAM FUNDING SUMMARY:**

Line Item No. and Name	FY 2008	FY 2009	FY 2010						
WPN 2234/Standard Missile	0.000	122.471	160.052						
QTY		20	28						

**D. ACQUISITION STRATEGY:**

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).

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.

No new facilities will be required for SM-6 production, and existing equipment will be used whenever possible.

No source other than Raytheon is capable of producing a shipboard ERAM missile within the Navy's schedule.

SM-6 Acquisition Strategy signed by OSD AT&L 3 March 2004.

**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 May 2009			
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 2009 Cost (\$000)	FY 2009 Award Date	FY 2010 Cost (\$000)	FY 2010 Award Date		Total Cost (\$000)	Target Value of Contract
DESIGN AND ANALYSIS	CPIF	RAYTHEON	404.249	147.688	NOV-08	86.305	NOV-09		CONT	0.000
	CPFF	JHU/APL, LAUREL MD	25.800	5.138	NOV-08	5.250	NOV-09		36.188	0.000
	MIPR	MIT LINCOLN LAB, LEXINGTON	0.550	0.000		0.000			0.550	0.000
	WR	NAWC WD CHINALAKE, CA	1.257	0.300	NOV-08	0.300	NOV-09		1.857	0.000
	WR	NSWC DAHLGREN, VA	6.032	1.372	NOV-08	2.052	NOV-09		9.456	0.000
	WR	NSWC INDIAN HEAD, MD	2.307	0.527	NOV-08	0.527	NOV-09		3.361	0.000
	WR	NSWC PORT HUENEME, CA	5.849	2.201	NOV-08	2.338	NOV-09		10.388	0.000
	WR	NSWC CRANE, IN	0.838	0.386	NOV-08	0.386	NOV-09		1.610	0.000
	MIPR	JSPO/EGLIN EDWARDS AFB	5.402	5.500	NOV-08	10.800	NOV-09		21.702	0.000
	CPFF	LOCKHEED	5.794	0.000		0.000			5.794	0.000
	WR	NSWC CORONA	1.956	0.831	NOV-08	0.831	NOV-09		3.618	0.000
	REQN	ONR	2.750	0.400	NOV-08	3.787	NOV-09		6.937	0.000
	REQN	NRL	0.090	0.000		0.000			0.090	0.000
	WR	COMPTEVFOR	0.890	0.260	NOV-08	0.260	NOV-09		1.410	0.000
	WR	CARDEROCK	0.625	0.200	NOV-08	0.200	NOV-09		1.025	0.000
	WR	NSWC/PT MUGU	0.213	0.025	NOV-08	0.025	NOV-09		0.263	0.000
	CPFF	BAE	4.693	1.100	NOV-08	0.750	NOV-09		6.543	0.000
	MIPR	ARMY, REDSTONE ARSENAL	0.050	0.000		0.000			0.050	0.000
	WR	NAWCAD, PATUXENT RIVER	0.392	0.000		0.000			0.392	0.000
	CPFF	CORVID	1.300	0.350	NOV-08	0.450	NOV-09		2.100	0.000
	CPFF	RNB	0.010	0.000		0.000			0.010	0.000
	WR	SPAWAR	0.007	0.000		0.000			0.007	0.000
	WR	ARMY CECOM	0.066	0.000		0.000			0.066	0.000
	WR	GENERAL DYNAMICS	1.660	0.000		0.000			1.660	0.000
Ship Integration	CPFF/WR	Various (IWS 1A)	34.293	12.190	NOV-08	8.450	NOV-09		54.933	0.000
	CPAF/WR	Various (VLS)	17.028	4.418	NOV-08	4.483	NOV-09		25.929	0.000
<b>Subtotal Product Development</b>			<b>524.101</b>	<b>182.886</b>		<b>127.194</b>			<b>CONT</b>	<b>0.000</b>
Remarks:										

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<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>RD TEN/BA 5</b>		<b>PROGRAM ELEMENT NUMBER AND NAME</b> <b>0604366N/STANDARD MISSILE IMPROVEMENTS</b>			<b>PROJECT NUMBER AND NAME</b> <b>3092/Standard Missile 6 Program</b>					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY Cost (\$000)	FY 2009 Cost (\$000)	FY 2009 Award Date	FY 2010 Cost (\$000)	FY 2010 Award Date		Total Cost (\$000)	Target Value of Contract
<b>Subtotal Support Costs</b>			<b>0.000</b>	<b>0.000</b>		<b>0.000</b>			<b>0.000</b>	<b>0.000</b>
Remarks:										
Developmental Test & Evaluation	WR	NSWC Port Hueneme, CA	0.200	0.000		0.000			0.200	0.000
	WR	White Sands Missile Range, NM	12.580	5.690	NOV-08	1.000	NOV-09		19.270	0.000
	WR	PMRF	0.220	29.700	NOV-08	20.000	NOV-09		49.920	0.000
	WR	PT. MUGU	0.369	0.000	NOV-08	0.000			0.369	0.000
<b>Subtotal Test and Evaluation</b>			<b>13.369</b>	<b>35.390</b>		<b>21.000</b>			<b>69.759</b>	<b>0.000</b>
Remarks:										
Contractor Engineering Services	CPAF	Various	11.905	3.500	NOV-08	3.500	NOV-09		18.905	0.000
Travel			0.578	0.150	NOV-08	0.150	NOV-09		0.878	0.000
<b>Subtotal Management Services</b>			<b>12.483</b>	<b>3.650</b>		<b>3.650</b>			<b>19.783</b>	<b>0.000</b>
Remarks:										
<b>Total Cost</b>			<b>549.953</b>	<b>221.926</b>		<b>151.844</b>			<b>CONT</b>	<b>0.000</b>

CLASSIFICATION:		UNCLASSIFIED																EXHIBIT R-4, SCHEDULE PROFILE		DATE	
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							
Fiscal Year	2008				2009				2010												
	1	2	3	4	1	2	3	4	1	2	3	4									
<b>Acquisition Milestones</b>			△	PRR		△	MS C			FRP Decision	△										
Design Reviews/Decisions			△	WSES RB	△	△	△	△													
Hardware Design, Prototype & Test																					
Tactical SW Development/ Final Qualification Test (FQT)	Tactical SW Development (FQT)																				
Integration & Test	Captive Carry																				
				△	CSEDS							△	DT WIT			△	OT WIT				
<b>Flight Tests</b>			△	GTV-1																	
DT IIB1 (CTV)			△	GTV-2	△	CTV	△	GTV-3													
DT IIB2 (GTV)																					
<b>Test &amp; Evaluation Milestones</b>	DT IIB2 EOA												DT IIC1								
Development Test (DT)													DT IIC2/OT (1-2)								
DT IIB2 EOA/DT IIC1/DT IIB 1DT IIC2																					
<b>Production Milestones</b>																					
LRIP I FY 09								△	LRIP I Award												
LRIP II FY 10												△	LRIP II Award								

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>					
<b>EXHIBIT R-4a, SCHEDULE DETAIL</b>						DATE May 2009	
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>RD TEN/BA 5</b>		<b>PROGRAM ELEMENT NUMBER AND NAME</b> <b>0604366N/STANDARD MISSILE IMPROVEMENTS</b>			<b>PROJECT NUMBER AND NAME</b> <b>3092/Standard Missile 6 Program</b>		
Schedule Profile		FY 2008	FY 2009	FY 2010			
Software Design/Final Qualification Test (FQT)		1Q-4Q	1Q-4Q	1Q-4Q			
Captive Carry		1Q-4Q					
CSEDS (ACB 12) (ACB14)			1Q				
WIT				1Q & 3Q			
Flight Test DT IIB1 (CTV) DTB IIB2 (GTV)		3Q-4Q	1Q-3Q				
WSESRB		3Q	1Q-3Q				
Developmental Testing (DT-IIB1)		4Q	1Q				
Developmental Testing (DT-IIB2) Early Operational Assessment		1Q-4Q	1Q-2Q				
Preproduction Readiness Review (PRR)		3Q					
Milestone C (MS C) Review			2Q				
Low-Rate Initial Production I (LRIP I Award)			2Q				
Developmental Testing (DT-IIC1)				2Q-3Q			
Low-Rate Initial Production II (LRIP II Award)				1Q			
Developmental Testing (DT-IIC2/OT-[1&2])				2Q-3Q			
Operational Testing (OT-[3-12 & 2 Spares])				4Q			
Full-Rate Production (FRP) Decision				4Q			

<b>CLASSIFICATION:</b>		<b>UNCLASSIFIED</b>		
<b>EXHIBIT R-2a, RDT&amp;E PROJECT JUSTIFICATION</b>				DATE May 2009
APPROPRIATION/BUDGET ACTIVITY <b>RD TEN/BA 5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604366N/STANDARD MISSILE IMPROVEMENTS</b>	PROJECT NUMBER AND NAME <b>9999/CONGRESSIONAL ADDS</b>		
<b>B. ACCOMPLISHMENTS/PLANNED PROGRAM:</b>				
		FY 2008	FY 2009	FY 2010
<b>Extensible Launching Systems 9D76A</b>		0.000	2.992	0.000
RDT&E Articles Quantity		0	0	0
FY 2009: To develop system requirements and other risk mitigation tasks.				