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Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improvements</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	3,575.978	298.328	418.187	468.297	-	468.297	468.335	239.545	81.468	83.084	Continuing	Continuing
0439: <i>Standard Missile Improvement</i>	1,477.552	27.866	39.173	66.695	-	66.695	73.006	17.035	13.796	14.062	Continuing	Continuing
2063: <i>SM-6 Blk IB</i>	432.150	182.032	234.761	342.251	-	342.251	381.796	209.244	61.889	63.127	Continuing	Continuing
3092: <i>Standard Missile 6 Program</i>	1,666.276	88.430	144.253	59.351	-	59.351	13.533	13.266	5.783	5.895	Continuing	Continuing

A. Mission Description and Budget Item Justification

STANDARD Missile (SM) is Navy's premier Integrated Air and Missile Defense (IAMD) capability providing ship's self-defense and Fleet area-defense against great power competition advanced threats. The SM active family of missiles (FoM) includes Medium Range (MR) SM-2 BLK IIIC, Extended Range (ER) SM-6 BLK I, IA, IAU and Long-range (LR) SM-6 BLK IB. This SM active FoM evolution improves primary mission areas for IAMD and evolved to include additional multi-mission defensive and offensive hypersonic kinetic capabilities. Today the SM-2 BLK IIICU, SM-6 BLK IAU and SM-6 BLK IB are aligned with the Joint Warfare Concept (JWC), Joint Concept for Fires (JCF), the Navy's Navigation Plan Implementation Framework (NIF), and Navy Distributed Maritime Operations (DMO) to deliver the Navy and the Joint Force transformative capabilities addressing Combatant Commander and Chairman of the Joint Chief of Staff (JCS) highest capability gaps and capability requirements to support the Joint Operating Environment (JOE) for 2030 and 2045.

The Standard Missile 2 BLK IIIC (SM-2 Block IIIC) is a transformation from medium range (MR) semi-active to MR active capability incorporating the SM-6 BLK I active seeker and delivering improved capabilities against the most challenging Air Warfare (AW) threats. The program was designated an Accelerated Acquisition (AA) program by the CNO/ASN RDA on November 14, 2017. The SM-2 Block IIIC Middle Tier Acquisition (MTA) program (previously known as accelerated acquisition program) delivered Initial Capability in 1Q FY 2023. The SM-2 BLK IIIC plans to transition from an MTA program into a Major Capability Acquisition (MCA) program for SM-2 BLK IIICU upon approval of the Acquisition Program Baseline (APB).

The Standard Missile-6 (SM-6) Block IB is an upgrade of the SM-6 BLK IAU, which provides long-range fires capability by implementing improved software and replacing the existing Mk 104 Dual-Thrust Rocket Motor (DTRM) with a new 21-inch rocket motor to extend the range. The SM-6 BLK IB delivers to the Navy and Joint Force a transformative multi-domain, multi-mission offensive hypersonic kinetic capability. SM-6 BLK IB IOC delivery is FY 2026.

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B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	309.943	418.187	436.301	-	436.301
Current President's Budget	298.328	418.187	468.297	-	468.297
Total Adjustments	-11.615	0.000	31.996	-	31.996
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.017	0.000			
• SBIR/STTR Transfer	-11.598	0.000			
• Program Adjustments	0.000	0.000	32.054	-	32.054
• Rate/Misc Adjustments	0.000	0.000	-0.058	-	-0.058

Change Summary Explanation

The decrease of -\$11.615M in FY 2023 is -\$11.598M execution realignment decrease to the STANDARD Missile variants SM-2 and SM-6 programs and -\$0.017M cancelled accounts decrease applied to the STANDARD Missile Improvements PU 0439.

The increase of +\$31.996M in FY 2025 consists of +\$38.031M to procure SM-2 BLK IIICU DT/OT rounds and -\$6.035M in Misc Adjustments.

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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
0439: <i>Standard Missile Improvement</i>	1,477.552	27.866	39.173	66.695	-	66.695	73.006	17.035	13.796	14.062	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Future Combat System Integration S-Band Radar (AMDR-S) for DDG 51 Flight III ships, with other platforms/Combat System baselines, will include requirements review/updates and analysis, verification; technical documentation, design review and working group Subject Matter Expert (SME) support, missile/radar integration, missile test hardware procurement, risk assessment, safety, test and evaluation planning, analysis, and data collection. Deliverables include interface control documents (ICDs) changes, missile specifications changes, and engineering documents updates to support AEGIS Baseline 10 (BL10) Integrated Program Review (IPR) Process Engineering Development Model (EDM) testing; Combat Systems Engineering Development Site (CSEDS) , Moorestown, NJ; Combat System/missile integration testing at Pacific Missile Range Facility/Advanced Radar Detection Laboratory (PMRF/ARDEL) Kauai, HI and Sudbury, MA; Waterfront Integration Testing (WIT) and Electromagnetic Environmental Effects (E3) and Hazard of Electromagnetic Radiation to Ordnance (HERO) testing, analysis, and reports for BL10 DDG 51 FLT III FY 2022-2023; Developmental Testing and Operational Testing (DT/OT), analysis, and reports for BL10 DDG 51 FLT III FY 2023-2024 and Integrated Air Missile Defense Testing in FY 2026/2027. The Standard Missile 2 BLK IIIC (SM-2 BLK IIIC) is a transformation from medium range (MR) semi-active to MR "active" capability incorporating the SM-6 Blk I active seeker and delivering improved capabilities against the most challenging Air Warfare (AW) threats. The program was designated an Accelerated Acquisition (AA) program by the CNO/ASN RDA on November 14, 2017. The SM-2 BLK IIIC Middle Tier Acquisition (MTA) program (previously known as accelerated acquisition program) delivered Initial Capability in 1Q FY 2023. The SM-2 BLK IIIC plans to transition from an MTA program into a Major Capability Acquisition (MCA) program for SM-2 BLK IIICU upon approval of the Acquisition Program Baseline (APB). The FY 2023 and 2024 funding allows for the SM-2 BLK IIIC program to transition to a SM-2 BLK IIICU program with integration of the electronics unit upgrade and is being conducted in coordination with the international community via FMS cases. The SM-2 BLK IIIC/IIICU is the primary AAW weapon for the FFG 62 class of ships. The addition of the MR IIIC/IIICU active seeker capability does not require missile illuminators as previously required for legacy semi-active missiles.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Future Combat System Integration	7.776	4.268	1.048	0.000	1.048
Articles:	-	-	-	-	-
FY 2024 Plans: Continue to plan and support missile radar and combat system (CS) testing using Inert Operational Missile (IOM), Missile Simulation Unit (MSU), or VOM with AEGIS combat system using SPY-6/BL10 at CSEDS as required. Continue to support Electromagnetic Environmental Effects (E3), including Electromagnetic Vulnerability (EMV) testing, evaluation and analysis as required. Support remaining advanced planning, preparation and execution of Waterfront Integration Testing (WIT) 2 for Future Combat System Integration					

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<p>planned for Q1 FY 2024. Continue to support Weapons System Explosive Safety Review Board (WSESRB) requirements for SM-2/6 deployment onboard DDG 51 Class Flight III ships. Continue to integrate and implement ET-17 solutions. Support advanced planning, preparation, execution and post test data analysis for DT/OT events in FY 2024 and Integrated Air Missile Defense Testing in FY 2026/2027. Continue to support AEGIS Baseline 10 IPR Process.</p> <p>FY 2025 Base Plans: Support advanced planning, preparation, execution of Integrated Air Missile Defense Testing in FY 2026/2027. Continue to support Weapons System Explosive Safety Review Board (WSESRB) requirements for SM-2/6 deployment onboard DDG 51 Class Flight III ships.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease of \$3.220M due to completion of DDG 51 FLT III DT/OT at sea events in FY 2024 and follow-on Integrated Air Missile Defense Testing not occurring until FY 2026/2027.</p>					
<p>Title: Standard Missile-2 BLK IIIC</p> <p align="right">Articles:</p> <p>Description: The SM-2 BLK IIIC Middle Tier Acquisition (MTA) program (previously known as accelerated acquisition program) delivered Initial Capability in 1Q FY 2023. The funding allows for the SM-2 BLK IIIC program to transition to a SM-2 BLK IIICU program with the integration of a new electronics unit required to address obsolescence. This upgrade is necessary to continue procurement of the SM-2 BLK IIIC capability and is being conducted in coordination with the international community via FMS cases. The SM-2 BLK IIIC/IIICU is the primary AAW weapon for DDG's and the FFG 62 class of ships which are not planning to include missile illuminators required for legacy semi-active missiles.</p> <p>FY 2024 Plans: Kick off SM-2 BLK IIICU efforts to include Systems Requirements Review (SRR) and Preliminary Design Review (PDR). Award SM-2 BLK IIICU contract. Update modeling and simulation tools leveraging legacy systems. Identify any potential changes to canister mechanical/electrical interfaces to support extended platform use. Begin integration efforts into new Aegis baseline. Coordinate with WSESRB on IIICU safety requirements.</p> <p>FY 2025 Base Plans:</p>	20.090	34.905	65.647	0.000	65.647
	-	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Conduct Critical Design Review (CDR). Complete Guidance Section design verification testing (DVT). Begin AUR integration, qualification, and testing. Continue development of tactical software and simulation to support flight tests. Continue integration efforts with AEGIS and conduct combat system integration testing. Begin planning for land-based flight tests. Continue coordination with WSESRB on IICU safety requirements in support of program flight test campaigns and fielding. FY 2025 OCO Plans: N/A FY 2024 to FY 2025 Increase/Decrease Statement: Increase of \$30.742M procure SM-2 BLK IICU DT/OT rounds.					
Accomplishments/Planned Programs Subtotals	27.866	39.173	66.695	0.000	66.695

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• WPN/2356: <i>Standard Missile Mods BLK IIC & Canister</i>	71.198	89.255	75.667	-	75.667	154.766	204.823	205.028	209.129	Continuing	Continuing

Remarks
LI 2356 is a shared line. The above funding only includes BLK IIC & Canisters and not entire LI.

D. Acquisition Strategy
The Navy's SM-2 BLK IIC program is an upgrade to the SM-2 Air Defense missile that will ultimately result in active, medium range missiles onboard AEGIS Cruisers and Destroyers. SM-2 BLK IIC is a rapid prototyping pathway middle tier acquisition (MTA) project that maximizes the reuse of the existing SM-6 BLK I active guidance section with a SM-2 Block III rocket motor while minimizing new hardware and software development work. The SM-2 BLK IIC Middle Tier Acquisition (MTA) program (previously known as accelerated acquisition program) delivered Initial Capability in 1Q FY 2023. The SM-2 BLK IIC plans to transition from a MTA program into a Major Capability Acquisition (MCA) program for SM-2 Blk IICU upon approval of the Acquisition Program Baseline (APB). The program is designated as SM-2 BLK IICU and will address obsolescence and increased performance capability beyond the initial IC program.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Design and Analysis1	C/CPFF	RAYTHEON : Tucson, AZ	488.597	7.946	Nov 2022	25.930	Nov 2023	52.412	Nov 2024	-		52.412	Continuing	Continuing	Continuing
Design and Analysis2	C/CPFF	JHU/APL : Laurel, MD	32.039	3.340	Nov 2022	2.830	Nov 2023	3.000	Nov 2024	-		3.000	0.000	41.209	-
Design and Analysis3	MIPR	MIT/Lin Lab : Lexington, MA	0.050	0.000		0.000		0.000		-		0.000	0.000	0.050	-
Design and Analysis4	WR	NSWC : Dahlgren	795.419	0.450	Nov 2022	1.450	Nov 2023	1.650	Nov 2024	-		1.650	0.000	798.969	-
Design and Analysis5	WR	NSWC : Indian Head	1.751	0.000		0.000		0.000		-		0.000	0.000	1.751	-
Design and Analysis6	WR	NAWC : China Lake	5.979	0.000		0.000		0.000		-		0.000	0.000	5.979	-
Design and Analysis7	Various	LOCKHEED MARTIN : Moorestown, NJ	17.775	0.000		0.125	Nov 2023	0.000		-		0.000	0.000	17.900	-
Design and Analysis8	WR	CNO : Washington, DC	0.010	0.000		0.000		0.000		-		0.000	0.000	0.010	-
Design and Analysis9	WR	CMDP : Phoenix, AZ	4.795	0.000		0.000		0.000		-		0.000	0.000	4.795	-
Design and Analysis11	WR	NSWC : Crane	0.257	0.000		0.000		0.000		-		0.000	0.000	0.257	-
Design and Analysis12	WR	DOI&CNAP : Washington, DC	0.487	0.000		0.000		0.000		-		0.000	0.000	0.487	-
Design and Analysis13	WR	COMPTEVFOR : Norfolk, VA	1.345	0.020	Nov 2022	0.000	Nov 2023	0.510	Nov 2024	-		0.510	0.000	1.875	-
Design and Analysis14	C/CPFF	LOCKHEED MARTIN : Moorestown, NJ	2.000	0.000		0.000		0.000		-		0.000	0.000	2.000	-
Design and Analysis15	WR	CARDEROCK : Bethesda, MD	0.080	0.000		0.000		0.000		-		0.000	0.000	0.080	-
Design and Analysis16	WR	NSWC : Corona	4.427	0.000		0.075	Oct 2023	0.750	Nov 2024	-		0.750	0.000	5.252	-
Design and Analysis17	C/CPFF	CORVID : Mooresville, NC	0.100	0.000		0.000		0.000		-		0.000	0.000	0.100	-
Design and Analysis18	C/CPFF	BAE : Rockville, MD	3.275	0.000		0.296	Nov 2023	0.000		-		0.000	0.000	3.571	-
Design and Analysis19	MIPR	MDA : Dahlgren,VA	1.257	0.000		0.000		0.000		-		0.000	0.000	1.257	-

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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Design and Analysis20	WR	IWS3D : ARLINGTON, VA	1.500	0.000		0.000		0.000		-		0.000	0.000	1.500	-
Design and Analysis21	C/CPFF	LOCKHEED MARTIN : IWS (IWS 1)	39.388	2.000	Nov 2022	0.700	Nov 2023	3.840	Nov 2024	-		3.840	0.000	45.928	-
Design and Analysis22	WR	IWS3L : Arlington, Va	15.500	0.200	Nov 2022	0.000		0.000		-		0.000	0.000	15.700	-
Design and Analysis23	WR	NSWC : PHD	0.824	0.000		0.075	Nov 2023	0.000		-		0.000	0.000	0.899	-
Design and Analysis24	C/CPFF	IWS1 : Washington, D.C.	10.600	0.310	Nov 2022	0.000	Nov 2023	0.000		-		0.000	0.000	10.910	-
Design and Analysis25	WR	IWS 3A : Arlington, Va	0.000	1.000	Nov 2022	1.230	Nov 2023	0.000		-		0.000	0.000	2.230	-
Design and Analysis26	WR	IWS7 : Washington, DC	6.270	0.000		0.000		0.000		-		0.000	0.000	6.270	-
Design and Analysis	WR	IWS3 : Arlington, Va	0.000	4.060	Nov 2022	0.000		0.000		-		0.000	0.000	4.060	-
Design and Analysis	WR	VARIOUS : VARIOUS	0.000	0.000		0.154	Nov 2023	0.000		-		0.000	0.000	0.154	-
Product Development	WR	VARIOUS : VARIOUS	0.000	0.000		0.154	Nov 2023	0.000		-		0.000	0.000	0.154	-
Design and Analysis	WR	IWS3C : Washington, D.C.	0.000	0.000		0.500	Nov 2023	0.000		-		0.000	0.000	0.500	-
Subtotal			1,433.725	19.326		33.519		62.162		-		62.162	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NSWC : Port Hueneme	2.318	0.383	Nov 2022	0.500	Nov 2023	0.700	Nov 2024	-		0.700	0.000	3.901	-
Developmental Test & Evaluation (DT&E)	WR	WSMR : New Mexico	3.380	0.000		0.075	Oct 2023	0.750	Nov 2024	-		0.750	0.000	4.205	-

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Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NAWC : Pt Mugu	2.624	0.000		0.000		0.000		-		0.000	0.000	2.624	-
Developmental Test & Evaluation (DT&E)	WR	PMRF : Hawaii	0.338	0.000		0.000		0.000		-		0.000	0.000	0.338	-
Developmental Test & Evaluation (DT&E)	WR	NSWC : Techrep	2.253	0.565	Nov 2022	0.934	Nov 2023	0.158	Nov 2024	-		0.158	0.000	3.910	-
Developmental Test & Evaluation (DT&E)	SS/CPFF	RAYTHEON : Tucson, Az	4.895	2.500	Nov 2022	0.400	Nov 2023	0.166	Nov 2024	-		0.166	0.000	7.961	-
Developmental Test & Evaluation (DT&E)	C/CPFF	JHU/APL : Laurel, Md	0.719	0.200	Nov 2022	0.450	Nov 2023	0.200	Nov 2024	-		0.200	0.000	1.569	-
Developmental Test & Evaluation (DT&E)	C/CPIF	VARIOUS : IWS (IWS 1)	7.152	0.000		0.000	Nov 2023	0.000		-		0.000	0.000	7.152	-
Developmental Test & Evaluation (DT&E)	WR	NSWC : Dahlgren	0.768	0.200	Nov 2022	0.400	Nov 2023	0.200	Nov 2024	-		0.200	0.000	1.568	-
Developmental Test & Evaluation (DT&E)	WR	NSWC : Corona	0.200	0.520	Nov 2022	1.520	Nov 2023	0.150	Nov 2024	-		0.150	0.000	2.390	-
Developmental Test & Evaluation (DT&E)	WR	IWS3 : Arlington, VA	0.000	2.030	Nov 2022	0.000	Nov 2023	0.000		-		0.000	0.000	2.030	-
Subtotal			24.647	6.398		4.279		2.324		-		2.324	0.000	37.648	N/A

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
CONTRACTOR ENGINEERING SUPPORT	C/CPAF	VARIOUS : VARIOUS	4.561	0.000		0.000		0.000		-		0.000	0.000	4.561	-
PROGRAM MANAGEMENT SUPPORT	C/CPAF	VARIOUS : VARIOUS	14.018	2.107	Nov 2022	1.175	Dec 2023	2.009	Nov 2024	-		2.009	0.000	19.309	-
TRAVEL	Allot	IWS3 : Arlington, VA	0.601	0.035	Nov 2022	0.200	Nov 2023	0.200	Nov 2024	-		0.200	0.000	1.036	-
Subtotal			19.180	2.142		1.375		2.209		-		2.209	0.000	24.906	N/A

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 0439				
Future Combat System Integration HERO/EMV Testing	1	2023	1	2024
Future Combat System Integration Test Planning	1	2023	4	2027
Future Combat System Integration WIT 1	2	2023	2	2023
Future Combat System Integration DT/OT	3	2024	4	2024
Future Combat System Integration WIT 2	1	2024	1	2024
Future Combat System Integration DDG 51 FLT III IOC	4	2024	4	2024
Future Combat System Integration ET-17 MSLEX During CSSQT	4	2024	4	2024
Future Combat System Integration Weapon System Explosives Safety Review Board (WSESRB)	1	2024	4	2027
Future Combat System Integration Integrated Air Missile Defense Testing	4	2026	4	2027
Standard Missile-2 BLK IIIC CTV/GTV	1	2023	1	2023
Standard Missile-2 BLK IIICU Milestone B	2	2023	2	2023
Standard Missile-2 BLK IIIC Weapon Systems Explosive Safety Review Board 4	1	2023	1	2023
Standard Missile-2 BLK IIICU Contract Award	1	2024	1	2024
Standard Missile-2 BLK IIICU SRR	2	2024	2	2024
Standard Missile-2 BLK IIICU Program Kickoff/ Preliminary Design Review	2	2024	2	2024
Standard Missile-2 BLK IIICU PDR	3	2024	3	2024
Standard Missile-2 BLK IIICU CDR	2	2025	2	2025
Standard Missile-2 BLK IIICU Landing Based Testing	3	2025	3	2026
Standard Missile-2 BLK IIICU DT/OT	2	2027	2	2028

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy										Date: March 2024		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improve ments</i>				Project (Number/Name) 2063 / <i>SM-6 Blk IB</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
2063: <i>SM-6 Blk IB</i>	432.150	182.032	234.761	342.251	-	342.251	381.796	209.244	61.889	63.127	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This missile will provide an extended range capability for SM-6 and will be a key contributor to the protection of Joint U.S. Forces, in support of the 2022 National Defense Strategy. SM-6 BLK IB addresses valid Joint, Fleet, and Navy Urgent Operational Needs and existing Joint Requirements Oversight Council (JROC)-approved requirements. This program aligns with the STANDARD Missile roadmap and takes advantage of the Navy's investment in the AEGIS Weapon System (AWS). It leverages advanced missile technology from the SM-6 Family of Missiles and a new 21-inch rocket motor. This motor will be prototyped in a competitive demonstration effort and then integrated with the SM-6 Block IB missile. The program will be executed as an Acquisition Category IC subprogram to the SM-6 BLK I under the Major Capabilities Acquisition pathway.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: SM-6 BLK IB Development	182.032	234.761	342.251	0.000	342.251
Articles:	-	-	-	-	-
FY 2024 Plans: Award rocket motor prototyping Other Transaction Agreements, conduct 4 static fire tests, build 2 inert rocket motors with empty and loaded configurations, and conduct two Fuze Safety Initiation Technical Review Panels. Begin integrating the EU and the SM-6 BLK IB to address the thermal protection systems differences with the SM-6 BLK IAU. Begin a preliminary design and begin preparing for a Preliminary Design Review (PDR) for the SM-6 BLK IB on the new Electronics Unit (EU). Mature EU integration and continue the SM-6 BLK IB detailed design. Prototype components for benchtop level performance and integration testing and analysis. Begin modifying test equipment for compatibility with the EU and prepare facilities for the Controlled Test Vehicle (CTV) ground vibration survey. Complete integration and prove out of software and simulation test facility fabrication initiated during the EU Risk Reduction effort for SM-6 BLK IB. Continue software adaptation from EU into the SM-6 BLK IB to provide multi-mission capability. Complete architecture development and design for SM-6 BLK IB. Continue Aegis architecture and design for SM-6 BLK IB extended range capability. Continue procuring SM-6 BLK IB component hardware for ground tests, flight test hardware, and Fleet Experimentation (FLX) rounds. Continue procuring MK 29 Mod I canisters for the SM-6 BLK IB flight and safety qualification testing and Fleet experimentation rounds. Develop logistics planning in preparation for an Independent Logistics Assessment (ILA) for SM-6 BLK IB.					
FY 2025 Base Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improvements</i>	Project (Number/Name) 2063 / <i>SM-6 Blk IB</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<p>Conduct CTV-1 to close out the CTV demonstration. Complete the post-test analysis for the first SM-6 BLK IB Controlled Test Vehicle (CTV) conducted in FY 2023. Begin integrating the EU and the SM-6 BLK IB to address the thermal protection systems differences with the SM-6 BLK IAU. Complete the preliminary design and conduct a Preliminary Design Review (PDR) for the SM-6 BLK IB on the new Electronics Unit (EU). Mature EU integration and complete SM-6 BLK IB detailed design. Conduct SM-6 BLK IB delta ground testing, including ground vibration survey, missile stability frequency response test, live battery test, and electromagnetic effects testing. Update the SM-6 BLK IB model and simulation for flight test predictions to support CTV-2. Complete integration and prove out of software and simulation test facility fabrication initiated during the EU Risk Reduction effort for SM-6 BLK IB. Complete software adaptation from EU into the SM-6 BLK IB to provide multi-mission capability. Complete architecture development and design for the CTV for SM-6 BLK IB. Complete coding and final qualification test for the CTV-2 software build for SM-6 BLK IB. Conduct Critical Design Review (CDR) for the SM-6 BLK IB Initial Operating Capability (IOC). Continue Aegis architecture and design for SM-6 BLK IB extended range capability. Continue procuring SM-6 BLK IB components including ground test and CTV hardware. Continue procuring MK 29 Mod I canisters for the SM-6 BLK IB flight and safety qualification testing and seven (7) Fleet experimentation rounds. Conduct an Independent Logistics Assessment (ILA) for SM-6 BLK IB. Conduct CTV-2 preparations and execute test.</p> <p>Complete rocket motor prototyping OTAs, down select prototyping solution for Engineering and Manufacturing Development (EMD), award rocket motor EMD contract, conduct an In Process Review (IPR) to establish the preliminary design and begin Developmental Test and Verification static fire testing. Continue integrating the EU and the SM-6 BLK IB to address the thermal protection systems differences with the SM-6 BLK IAU. Complete a preliminary design and conduct a Preliminary Design Review (PDR) for the SM-6 BLK IB on the new Electronics Unit (EU). Mature EU integration and complete SM-6 BLK IB detailed design. Complete component detailed design based on benchtop level performance and integration testing and analysis. Complete the integrated preliminary design and conduct the All-Up-Round (AUR) Preliminary Design Review. Complete test equipment modification for compatibility with the EU, conduct the ground vibration survey and Missile Stability Frequency Response Test for the Controlled Test Vehicle Campaign. Continue software adaptation from EU into the SM-6 BLK IB to provide multi-mission capability. Mature algorithm development and begin coding software for SM-6 BLK IB. Continue Aegis architecture and design for SM-6 BLK IB extended range capability. Continue procuring SM-6 BLK IB component hardware for ground tests, flight test hardware, and Fleet Experimentation (FLX) rounds. Continue procuring MK 29 Mod I canisters for the SM-6 BLK IB flight and safety qualification testing and Fleet experimentation rounds. Conduct an Independent Logistics Assessment (ILA) for SM-6 BLK IB.</p> <p>FY 2025 OCO Plans:</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improvements</i>	Project (Number/Name) 2063 / <i>SM-6 Blk IB</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A					
FY 2024 to FY 2025 Increase/Decrease Statement: Increase of \$107.490M reflects the increase in the scope of work and materials.					
Accomplishments/Planned Programs Subtotals	182.032	234.761	342.251	0.000	342.251

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• WPN 2234: <i>Standard Missile</i>	572.054	969.525	744.930	-	744.930	1,050.549	1,008.306	1,328.592	1,309.240	6,264.788	18,632.103

Remarks
PE 0204228N WPN LI 2234 is a shared procurement for SM-6 Block I, Block IA and Block IB. SM-6 Block IB low rate initial production starts in FY 2024.

D. Acquisition Strategy
SM-6 BLK IB Acquisition Strategy was signed in FY 2022 and is being revised to reflect the updated 21-inch rocket motor strategy.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improve ments</i>	Project (Number/Name) 2063 / <i>SM-6 Blk IB</i>
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Design and Analysis	C/CPFF	JHU/APL : Laurel, MD	14.224	0.786	Nov 2022	2.354	Nov 2023	3.063	Nov 2024	-		3.063	Continuing	Continuing	Continuing
Design and Analysis	WR	NAWC AD : China Lake	15.096	1.445	Nov 2022	2.563	Nov 2023	3.736	Nov 2024	-		3.736	Continuing	Continuing	Continuing
Design and Analysis	WR	NSWC : Indian Head	1.070	73.365	Nov 2022	0.380	Nov 2023	0.397	Nov 2024	-		0.397	Continuing	Continuing	Continuing
Design and Analysis	C/CPFF	NSMA : Various	185.020	27.085	Nov 2022	74.519	Nov 2023	205.784	Nov 2024	-		205.784	Continuing	Continuing	Continuing
Design and Analysis	C/CPFF	BAE : ROCKVILLE, MD	0.295	0.044	Nov 2022	0.150	Nov 2023	1.386	Nov 2024	-		1.386	Continuing	Continuing	Continuing
Design and Analysis	C/CPFF	GD-OTS : Healdsburg, CA	28.026	7.715	Nov 2022	0.000		0.000		-		0.000	0.000	35.741	-
Design and Analysis	WR	NSWC Dahl : Dahlgren, Va	2.017	0.115	Nov 2022	0.000		0.000		-		0.000	0.000	2.132	-
Design and Analysis	Various	IWS 3L : Dahlgren, VA	9.983	0.230	Nov 2022	0.167	Nov 2023	0.000		-		0.000	0.000	10.380	-
Design and Analysis	Various	IWS1.0 : Lockheed Martin	1.750	1.300	Nov 2022	1.500	Nov 2023	0.000		-		0.000	0.000	4.550	-
Design and Analysis	C/CPFF	Corvid : Mooresville, NC	2.538	0.000		0.000		0.627	Nov 2024	-		0.627	0.000	3.165	-
Design and Analysis	WR	Indian Head : Picatinny	3.873	0.446	Nov 2022	0.628	Nov 2023	0.000		-		0.000	0.000	4.947	-
Design and Analysis	WR	NAWC AD : Techrep	0.466	0.000		0.000		0.947	Nov 2024	-		0.947	0.000	1.413	-
Design and Analysis	C/CPFF	Aerojet : Huntsville, AL	65.630	10.927	Nov 2022	0.000		0.000		-		0.000	0.000	76.557	-
Design and Analysis	WR	PHD : Port Hueneme	0.022	0.170	Nov 2022	0.100	Nov 2023	0.102	Nov 2024	-		0.102	0.000	0.394	-
Design and Analysis	C/CPFF	Lockheed Martin : Moorestown, NJ	1.000	1.000	Nov 2022	7.800	Nov 2023	10.809	Nov 2024	-		10.809	0.000	20.609	-
Design and Analysis	C/CPFF	BAE Systems : Fridley, MN	7.933	2.486	Nov 2022	2.060	Nov 2023	0.000		-		0.000	0.000	12.479	-
Design and Analysis	WR	NSWC Corona : Corona, CA	0.326	0.120	Nov 2022	0.000		0.000		-		0.000	0.000	0.446	-
Design and Analysis	C/CPFF	TBD : TBD	0.000	0.000		0.000		23.499	Nov 2024	-		23.499	0.000	23.499	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improve ments</i>	Project (Number/Name) 2063 / <i>SM-6 Blk IB</i>
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Subtotal			339.269	127.234		92.221		250.350		-		250.350	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test and Evaluation	WR	NAWC WD : China Lake	0.500	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Developmental Test and Evaluation	WR	NSWC : Port Hueneme	0.088	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Developmental Test and Evaluation	WR	McAlester : Rock Island	0.013	0.000		0.000		0.000		-		0.000	0.000	0.013	-
Developmental Test and Evaluation	C/CPFF	IWS 3 : Arlington, VA	0.038	0.000		0.000		0.000		-		0.000	0.000	0.038	-
Developmental Test and Evaluation	Various	NSMA : VARIOUS	27.085	0.000		0.000		0.000		-		0.000	0.000	27.085	-
Developmental Test and Evaluation	WR	Techrep : China Lake	1.291	0.732	Nov 2022	0.944	Nov 2023	0.000		-		0.000	0.000	2.967	-
Developmental Test and Evaluation	C/CPFF	BAE Systems : Fridley, MN	0.000	7.462	Nov 2022	18.543	Nov 2023	0.000		-		0.000	0.000	26.005	-
Developmental Test and Evaluation	C/CPFF	NSWC PHD : Port Hueneme	0.220	0.000		0.000		0.000		-		0.000	0.000	0.220	-
Developmental Test and Evaluation	WR	IWS 3L : Dahlgren, VA	0.000	0.692	Nov 2022	1.251	Nov 2023	1.102	Nov 2024	-		1.102	0.000	3.045	-
Developmental Test and Evaluation	WR	NSWC DD : Dahlgren, VA	0.663	0.345	Nov 2022	0.964	Nov 2023	1.683	Nov 2024	-		1.683	0.000	3.655	-
Developmental Test and Evaluation	WR	NSWC IH : Picatinny, NJ	0.000	1.338	Nov 2022	0.539	Nov 2023	0.000		-		0.000	0.000	1.877	-
Developmental Test and Evaluation	C/CPFF	Aerojet : Huntsville, AL	6.755	0.000		0.000		0.000		-		0.000	0.000	6.755	-
Developmental Test and Evaluation	C/CPFF	JHU/APL : Laurel, Maryland	2.163	0.000		0.000		0.000		-		0.000	0.000	2.163	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improve ments</i>	Project (Number/Name) 2063 / <i>SM-6 Blk IB</i>
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Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test and Evaluation	WR	NAWC CL : China Lake, CA	2.223	0.000		0.000		0.000		-		0.000	0.000	2.223	-
Developmental Test and Evaluation	WR	Pt Mugu : Pt Mugu, CA	0.100	0.000		0.000		0.000		-		0.000	0.000	0.100	-
Developmental Test and Evaluation	WR	NSWC Corona : Corona, CA	0.960	0.000		0.000		0.000		-		0.000	0.000	0.960	-
Developmental Test and Evaluation	C/CPFF	GD-OTS : Healdsburg, CA	1.917	0.000		3.092	Nov 2023	9.261	Nov 2024	-		9.261	0.000	14.270	-
Developmental Test and Evaluation	MIPR	NSA : Edwards AFB, NV	0.090	0.000		0.000		0.000		-		0.000	0.000	0.090	-
Developmental Test and Evaluation	C/CPFF	L3-Harris : San Diego, CA	0.000	3.000	Nov 2022	1.827	Nov 2023	2.272	Nov 2024	-		2.272	0.000	7.099	-
Subtotal			44.106	13.569		27.160		14.318		-		14.318	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation (DT&E)	WR	WSMR : White Sands	1.063	0.900	Nov 2022	0.800	Nov 2023	0.000		-		0.000	0.000	2.763	-
Developmental Test & Evaluation (DT&E)	C/BA	JHU/APL : Laurel, MD	3.550	2.358	Nov 2022	1.761	Dec 2023	0.766	Nov 2024	-		0.766	0.000	8.435	-
Developmental Test & Evaluation (DT&E)	C/BA	NAWC WD : China Lake	2.250	4.334	Nov 2022	3.197	Dec 2023	0.000		-		0.000	0.000	9.781	-
Developmental Test & Evaluation (DT&E)	C/BA	PHD : Port Hueneme	0.025	0.510	Nov 2022	0.952	Dec 2023	0.479	Nov 2024	-		0.479	0.000	1.966	-
Developmental Test & Evaluation (DT&E)	C/BA	NSMA : Various	24.405	24.085	Nov 2022	100.280	Dec 2023	44.364	Nov 2024	-		44.364	0.000	193.134	-
Developmental Test & Evaluation (DT&E)	C/BA	IWS 3 : Arlington, VA	0.050	0.000		0.050	Nov 2023	0.051	Nov 2024	-		0.051	0.000	0.151	-
Developmental Test & Evaluation (DT&E)	C/BA	Pt Mugu : Pt Mugu, CA	0.382	0.000		0.300	Nov 2023	0.306	Nov 2024	-		0.306	0.000	0.988	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improve ments</i>	Project (Number/Name) 2063 / <i>SM-6 Blk IB</i>
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Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation (DT&E)	C/BA	NSWC CO : Corona, CA	0.138	0.360	Nov 2022	0.998	Nov 2023	1.018	Nov 2024	-		1.018	0.000	2.514	-
Developmental Test & Evaluation (DT&E)	C/BA	PMRF : Hawaii	0.010	0.000		0.000		0.000		-		0.000	0.000	0.010	-
Developmental Test & Evaluation (DT&E)	C/BA	COTF : Norfolk, VA	0.021	0.000		0.000		0.000		-		0.000	0.000	0.021	-
Developmental Test & Evaluation (DT&E)	C/BA	Dahlgren : Dahlgren, VA	0.150	0.000		0.000		0.000		-		0.000	0.000	0.150	-
Developmental Test & Evaluation (DT&E)	C/BA	BAE Systems : Fridley, MN	8.307	0.000		0.000		17.693	Nov 2024	-		17.693	0.000	26.000	-
Developmental Test & Evaluation (DT&E)	MIPR	RAYTHEON : TEWKSBURY, MA	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Developmental Test & Evaluation (DT&E)	C/CPFF	TBD : TBD	0.000	0.000		0.000		2.611	Nov 2024	-		2.611	0.000	2.611	-
Subtotal			40.351	32.547		108.338		67.288		-		67.288	0.000	248.524	N/A

Remarks
FY 2024 funding in the amount of \$100.100M for SM-6 Block IB Wholeness was aligned under RDTEN PE 0604366N Project Unit 3092 in error. This program funding should have been allocated to RDTEN PE 0604366N Project Unit 2063.

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Program Management Support	C/CPFF	VARIOUS : VARIOUS	6.720	6.540	Nov 2022	7.042	Nov 2023	10.295	Nov 2024	-		10.295	Continuing	Continuing	Continuing
Contractor Engineering Support	C/BA	VARIOUS : VARIOUS	1.704	2.142	Nov 2022	0.000		0.000		-		0.000	0.000	3.846	-
Subtotal			8.424	8.682		7.042		10.295		-		10.295	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improve ments</i>	Project (Number/Name) 2063 / <i>SM-6 Blk IB</i>

	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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
Proj 2063																												
CTV-1																												
Contract Award	██████████																											
CTV-2																												
GTV-1																												
GTV-2																												
GTV-3																												
GTV-4																												
Steering Control Section Qualification					██████████																							
Rocket Motor Development	██████████																											
Rocket Motor Qualification																												
Begin VLS Integration			██████																									
MK 29 Mod 1 Qualification	████████████████████████████████████████																											
Aegis Integration																												
IOTE																												
IOC																												
Milestone B Decision																												
Milestone C Decision																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improve ments</i>	Project (Number/Name) 2063 / <i>SM-6 Blk IB</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2063				
CTV-1	2	2026	1	2027
Contract Award	1	2023	3	2023
CTV-2	2	2026	1	2027
GTV-1	1	2027	4	2027
GTV-2	1	2027	4	2027
GTV-3	3	2027	2	2028
GTV-4	3	2027	2	2028
Steering Control Section Qualification	4	2023	3	2024
Rocket Motor Development	2	2023	3	2026
Rocket Motor Qualification	4	2026	3	2027
Begin VLS Integration	3	2023	3	2023
MK 29 Mod 1 Qualification	1	2023	4	2025
Aegis Integration	1	2027	3	2027
IOTE	2	2028	4	2029
IOC	4	2029	4	2029
Milestone B Decision	4	2025	4	2025
Milestone C Decision	1	2029	1	2029

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy										Date: March 2024		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improvements</i>				Project (Number/Name) 3092 / <i>Standard Missile 6 Program</i>			
COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
3092: <i>Standard Missile 6 Program</i>	1,666.276	88.430	144.253	59.351	-	59.351	13.533	13.266	5.783	5.895	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

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 Weapons System (AWS) and Cooperative Engagement Capability (CEC). 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. This missile contributes to the continuous protection of forward deployed ground maneuver forces as well as theater rear assets supporting mission requirements discussed in the National Security Strategy (NSS), Secretary of Defense National Defense Strategy (NDS), Chairman of the Joint Chiefs' National Military Strategy (NMS), Capstone Concept for Joint Operations (CCJO), Joint Requirements Oversight Council (JROC) Integrated Air and Missile Defense (IAMD) Initial Capability Document (ICD), the JROC IAMD Joint Integrating Concept (JIC), JROC IAMD Operational Concept; the Theater and Air Missile Defense ICD (TAMD MDA-ICD), the Chairman of the Joint Chiefs of Staff Joint IAMD Vision 2020/2030 and the Joint Publication 3-01 Countering Air and Missile Threats; the Navy's Integrated Fire Control Naval Integrating Capability Concept (NIFC-NICC), the JROC Operational Requirements Document (ORD) for SM-6 Block 1, and the JROC SM-6 Capability Production Document. SM-6 portion of Joint and Naval Integrated Fire Control (NIFC) is to support the integration, land-based and at-sea test, and analysis in support of the NIFC-CA test and evaluation strategy. NIFC-CA integrates sensor improvements, SM-6 BLK IA, CEC and AWS AEGIS Baseline 9 Capability Package 22-1 into an advanced from the sea (FTS) Kill chain. Efforts include support for the White Sands Missile Range (WSMR) upgrade, Trackex events, Integration Events and Live Fire test at land based and at-sea tests. Flight testing will continue as future Aegis builds continue to be deployed with NIFC-CA capability. SM-6 System Engineering and Flight Test (SEFT) supports the development of the guidance section software configuration. This includes the research, development, test and evaluation necessary to incorporate the software in production missiles. SM-6 funding for AEGIS integration will verify compatibility with the Aegis builds that will use the full performance of the advanced missile. Supports modifications and upgrades to the SM-6 and SM-2 Active Missile Variants Flight Instrumentation Kits to C-band and the Enhanced Flight Termination System (EFTS) upgrade. These modification and upgrades to C-Band and EFTS hardware are to support a large multi-salvo test. This includes changing the Telemetry downlink to C-Band and incorporating an Enhanced Flight Termination Receiver (EFTR) into SM-6 and SM-2. The NIFC-CA project will be incorporated into the SEFT project in FY 2025 and renamed as Systems Integration and Fleet Engagement (SIFE) in order to more efficiently implement SM-6 testing, analyses, modeling efforts. The SIFE project will directly support the now completed Future Capabilities Demonstration (FCD) project high priority mission requirements requested by Combatant Commanders by improving the SM-6 Missile's capability. The project is continuing analyses and trade studies required for Fleet employment, future enhancements and expansion of the mission capabilities for the SM-6 Block IA missile and perform the necessary missile software development to support mission capability improvement. FCD was formerly its own project and has been incorporated into SEFT in FY 2023. As stated above, the NIFC-CA project will be incorporated into the SEFT project and renamed as SIFE in FY 2025. The STANDARD Missile 6 Electronics Unit funding is for the design, systems engineering, analysis, integration, and test of replaced obsolete components. This effort is jointly funded with the Missile Defense Agency for a shared approach to obsolescence and improved capability in defense of the sea base. Initial funding provided for the requirements generation, risk reduction/mitigation, and establishment of development facilities necessary for the commencement of the obsolescence project. The Missile Defense Agency was the contracting office for the risk reduction/mitigation and establishment of development facilities which

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy	Date: March 2024
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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improve ments</i>	Project (Number/Name) 3092 / <i>Standard Missile 6 Program</i>
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completed in FY 2020. The USN development effort began in FY 2021, continues through FY 2026 and remains a jointly funded effort with the Missile Defense Agency. This effort will deliver a SM-6 BLK IAU Engineering Change Proposal in Q3 FY 2026 to continue production of SM-6 BLK IA Missiles with the Upgraded Electronics Unit.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<p>Title: Electronics Unit (EU) Obsolescence-Upgrade</p> <p align="right">Articles:</p> <p>FY 2024 Plans: Complete guidance section builds for GS UUTs used to support build of rounds for Guidance Section Qualification, Hazard of Electromagnetic Radiation to Ordnance (HERO), Environmental Testing, GTV-2. Initiate Manufacturing assessments in support of Transition to production efforts. Continue tactical software builds and Functional Qualification Test (FQT) of software for GTV-2 and At-Sea-1 Flight test. Continue Test and Evaluation Working Group activities, planning and coordination with Test range and data collection leads, engineering teams and their support organizations. Complete GTV-1 (Q3 FY 2024). Continue to prepare for At-Sea 1 Flight Test (Q2 FY 2026) and prepare Technical Data Package for the SM-6 BLK IAU production ECP for delivery in Q3 FY 2026. Begin support for the transition of development and integration of EU into SM-6 BLK IB. Transition support includes test hardware, IOMs, prove-in and reuse of test equipment. Transition Ultra and tactical software in support of SM-6 BLK IB development efforts. EU development and support for execution of SM-6 BLK IB EMD in FY 2024 as described in PU 2063 FY 2024 Base plans.</p> <p>FY 2025 Base Plans: Continue tactical software builds and Functional Qualification Test (FQT) of software for GTV-2 and At-Sea-1 Flight test. Continue Test and Evaluation Working Group activities, planning and coordination with Test range and data collection leads, engineering teams and their support organizations. Complete GTV-2 (Q4 FY 2025). Continue to prepare for At-Sea 1 Flight Test (Q2 FY 2026) and prepare Technical Data Package for the SM-6 BLK IAU production ECP for delivery in Q3 FY 2026. Continue support for the transition of development and integration of EU into SM-6 BLK IB. Transition support includes test hardware, IOMs, prove-in and reuse of test equipment. Continue to transition Ultra and tactical software in support of SM-6 BLK IB development efforts.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>	68.012	139.552	54.706	0.000	54.706
	-	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy			Date: March 2024		
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improve ments</i>	Project (Number/Name) 3092 / <i>Standard Missile 6 Program</i>			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)					
The decrease of \$84.846M from FY 2024 to FY 2025 is due to progress in Electronics Unit development and integration in preparation for flight testing and Engineering Change Proposal (ECP) generation. Also, the development and integration of EU into SM-6 BLK IB will be continued under Project Unit 2063					
Title: System Integration and Fleet Engagement (SIFE)					
Articles:					
FY 2024 Plans: N/A					
FY 2025 Base Plans: Support combat system integration, System of System (SoS) integration and Fleet engagement activities of STANDARD Missile. The planned integration of System Engineering and Flight Test Support with Naval Integrated Fire Control documented in PB24 predominantly supports System Integration and Fleet Engagement (SIFE) for future budget cycles and will be referred to as SIFE.					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement: The \$4.645M increase is the result of the planned integration of System Engineering and Flight Test Support with Naval Integrated Fire Control.					
Title: SM-6 System Engineering and Flight Test Support (SEFT)					
Articles:					
FY 2024 Plans: Continue providing analysis and support for fleet implementation of the mission expansion capabilities. Support planning and analysis of Naval Integrated Fire Control (NIFC) flight test. Plan to combine SEFT and Naval Integrated Fire Control - Counter-Air in FY 2025.					
FY 2025 Base Plans: Support combat system integration, System of System (SoS) integration and Fleet engagement activities of STANDARD Missile. The planned integration of System Engineering and Flight Test Support with Naval Integrated Fire Control documented in PB24 predominantly supports System Integration and Fleet Engagement (SIFE) for future budget cycles and will be referred to as SIFE.					
FY 2025 OCO Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improve ments</i>	Project (Number/Name) 3092 / <i>Standard Missile 6 Program</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A					
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> The decrease of \$1.273M in FY 2024 funding is due to the combining of NIFC and SEFT into SIFE.					
<i>Title:</i> Naval Integrated Fire Control	3.281	3.428	0.000	0.000	0.000
<i>Articles:</i>	-	-	-	-	-
<i>FY 2024 Plans:</i> Continue supporting System of Systems (SoS) integration and test activities. Support NIFC test event At-Sea 10.					
<i>FY 2025 Base Plans:</i> Plan to incorporate NIFC project into SIFE in FY 2025.					
<i>FY 2025 OCO Plans:</i> N/A					
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> The decrease of \$3.428M in FY 2025 funding is due to the combining of NIFC into SEFT.					
Accomplishments/Planned Programs Subtotals	88.430	144.253	59.351	0.000	59.351

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
• WPN 2234: <i>Standard Missile</i>	572.054	969.525	744.930	-	744.930	1,050.549	1,008.306	1,328.592	1,309.240	6,264.788	18,632.103

Remarks
BLI 2234 is the Advanced Procurement. A portion of 2234 is used toward the BLK I/IA procurement.

D. Acquisition Strategy
SM-6 Acquisition Strategy signed by OSD AT&L 14 March 2012; SM-6 BLK IA Acquisition Strategy change pages signed by ASN RDA 01 July 2022.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improve ments</i>	Project (Number/Name) 3092 / <i>Standard Missile 6 Program</i>
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Design & Analysis	C/CPFF	RAYTHEON : Tucson, AZ	836.931	0.000		63.216	Nov 2024	52.231	Nov 2024	-		52.231	Continuing	Continuing	Continuing
Design & Analysis	C/CPFF	JHU/APL : Laurel MD	81.475	0.000	Jun 2023	3.500	Jun 2024	2.000	Nov 2024	-		2.000	0.000	86.975	-
Design & Analysis	MIPR	MIT/Lin Lab : Lexington, MA	0.550	0.000		0.000		0.000		-		0.000	0.000	0.550	-
Design & Analysis	WR	NAWC : China Lake/ Techrep	14.148	0.000		0.250	Nov 2023	0.500	Nov 2024	-		0.500	0.000	14.898	-
Design & Analysis	WR	NSWC : Dahlgren	15.420	0.000		1.700	Nov 2023	0.000		-		0.000	0.000	17.120	-
Design & Analysis	WR	NSWC : Indian Head	3.942	0.000		0.100	Nov 2023	0.000		-		0.000	0.000	4.042	-
Design & Analysis	WR	NSWC : PHD	13.101	0.000		0.150	Nov 2023	0.200	Nov 2024	-		0.200	0.000	13.451	-
Design & Analysis	WR	NSWC : Crane	1.256	0.000		0.000		0.000		-		0.000	0.000	1.256	-
Design & Analysis	MIPR	JSPO : Eglin AFB	24.049	0.000		0.000		0.000		-		0.000	0.000	24.049	-
Design & Analysis	C/CPFF	LOCKHEED Martin : Moorestown, NJ	6.724	0.000		0.000		0.000		-		0.000	0.000	6.724	-
Design & Analysis	WR	NSWC : Corona	29.201	0.000		0.000		0.500	Nov 2024	-		0.500	0.000	29.701	-
Design & Analysis	Reqn	ONR : Arlington, VA	5.320	0.000		0.000		0.000		-		0.000	0.000	5.320	-
Design & Analysis	Reqn	NRL : Washington, DC	0.140	0.000		0.000		0.000		-		0.000	0.000	0.140	-
Design & Analysis	WR	COMPTEVFOR : Norfolk, VA	2.620	0.000		0.000		0.000		-		0.000	0.000	2.620	-
Design & Analysis	WR	CARDEROCK : Philadelphia, PA	4.058	0.000		0.000		0.000		-		0.000	0.000	4.058	-
Design & Analysis	WR	NSWC : Pt Mugu	1.643	0.000		0.000		0.000		-		0.000	0.000	1.643	-
Design & Analysis	C/CPFF	BAE : Rockville, MD	6.486	0.000		0.000		0.000		-		0.000	0.000	6.486	-
Design & Analysis	MIPR	ARMY : Redstone	0.350	0.000		0.000		0.000		-		0.000	0.000	0.350	-
Design & Analysis	WR	NAWCAD : Pax River, MD	3.762	0.000		0.000		0.000		-		0.000	0.000	3.762	-
Design & Analysis	C/CPFF	CORVID : Mooresville, NC	15.970	0.000		0.000		0.000		-		0.000	0.000	15.970	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / Standard Missile Improve ments	Project (Number/Name) 3092 / Standard Missile 6 Program
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Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Design & Analysis	C/CPFF	RNB : Arlington, VA	0.010	0.000		0.000		0.000		-		0.000	0.000	0.010	-
Design & Analysis	WR	SPAWAR : Arlington, VA	0.007	0.000		0.000		0.000		-		0.000	0.000	0.007	-
Design & Analysis	WR	ARMY : Cecom	0.066	0.000		0.000		0.000		-		0.000	0.000	0.066	-
Design & Analysis	C/FP	GENERAL DYNAMICS : Falls Church, VA	1.660	0.000		0.000		0.000		-		0.000	0.000	1.660	-
Design & Analysis	WR	VARIOUS : (IWS 1)	130.356	0.000		2.000	Nov 2023	1.000	Nov 2024	-		1.000	0.000	133.356	-
Design & Analysis	WR	VARIOUS : (VLS)	26.024	0.000		0.000		0.000		-		0.000	0.000	26.024	-
Design & Analysis	WR	NSWC : WSMR	2.200	0.000		0.000		0.000		-		0.000	0.000	2.200	-
Design & Analysis	WR	PMRF : Hawaii	3.856	0.000		0.000		0.000		-		0.000	0.000	3.856	-
Design & Analysis	C/CPFF	IWS 3A : Arlington, VA	158.426	65.820	Nov 2022	0.000		0.000		-		0.000	0.000	224.246	-
Design & Analysis	WR	NSMA : PU 2063	0.000	0.000		60.100	Nov 2023	0.000		-		0.000	0.000	60.100	-
Subtotal			1,389.751	65.820		131.016		56.431		-		56.431	Continuing	Continuing	N/A

Remarks
 FY 2024 funding in the amount of \$100.100M for SM-6 Block IB Wholeness was aligned under RD TEN PE 0604366N Project Unit 3092 in error. Of the FY 2024 realignment from SM-6 Block IB, \$40.900M will be used for Electronics Unit and will be realigned to SM-6 Block IB in FY 2026 This program funding should have been allocated to RD TEN PE 0604366N Project Unit 2063. This FY 2024 funding will be applied to NSMA SM-6 Block IB BMD efforts.

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation (DT&E)	WR	NSWC : Port Hueneme	9.641	0.208	Nov 2022	0.208	Nov 2023	0.100	Nov 2024	-		0.100	0.000	10.157	-
Developmental Test & Evaluation (DT&E)	WR	NSWC : WSMR	33.200	0.500	Nov 2022	3.450	Nov 2023	1.000	Nov 2024	-		1.000	0.000	38.150	-
Developmental Test & Evaluation (DT&E)	WR	PMRF : Hawaii	47.601	0.000		0.006	Nov 2023	0.000		-		0.000	0.000	47.607	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy **Date:** March 2024

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improve ments</i>	Project (Number/Name) 3092 / <i>Standard Missile 6 Program</i>
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Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation (DT&E)	WR	NAWC : Pt Mugu	6.066	0.035	Nov 2022	0.842	Nov 2023	0.000		-		0.000	0.000	6.943	-
Developmental Test & Evaluation (DT&E)	C/CPAF	RAYTHEON : Tucson, AZ	52.617	12.103	Nov 2022	1.465	Nov 2023	0.000		-		0.000	0.000	66.185	-
Developmental Test & Evaluation (DT&E)	C/CPFF	JHU/APL : Laurel, MD	20.180	0.577	Nov 2022	0.350	Nov 2023	0.000		-		0.000	0.000	21.107	-
Developmental Test & Evaluation (DT&E)	WR	NSWC : Corona	18.563	4.828	Nov 2022	1.882	Nov 2023	0.000		-		0.000	0.000	25.273	-
Developmental Test & Evaluation (DT&E)	WR	NSWC : Dahlgren	3.765	0.860	Nov 2022	0.860	Nov 2023	0.000		-		0.000	0.000	5.485	-
Developmental Test & Evaluation (DT&E)	WR	VLS : Arlington, VA	2.369	0.000		0.000		0.000		-		0.000	0.000	2.369	-
Developmental Test & Evaluation (DT&E)	WR	COMPTEVFOR : Norfolk, Va	2.119	0.078	Nov 2022	0.000		0.000		-		0.000	0.000	2.197	-
Developmental Test & Evaluation (DT&E)	WR	VARIOUS : (IWS 1A)	6.033	0.350	Nov 2022	0.000		1.000	Nov 2024	-		1.000	0.000	7.383	-
Developmental Test & Evaluation (DT&E)	WR	NSWC : Carderock	2.580	0.000		0.000		0.000		-		0.000	0.000	2.580	-
Developmental Test & Evaluation (DT&E)	WR	NAWC : China Lake	10.419	0.398	Nov 2022	0.000		0.000		-		0.000	0.000	10.817	-
Developmental Test & Evaluation (DT&E)	WR	ONR : Arlington, Va	3.425	0.000		0.000		0.000		-		0.000	0.000	3.425	-
Developmental Test & Evaluation (DT&E)	WR	DOI : Washington D.C.	0.545	0.000		0.000		0.000		-		0.000	0.000	0.545	-
Subtotal			219.123	19.937		9.063		2.100		-		2.100	0.000	250.223	N/A

Management Services (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Contractor Engineering Services	C/CPAF	VARIOUS : Various	52.665	1.326	Nov 2022	2.163	Nov 2024	0.820	Nov 2024	-		0.820	0.000	56.974	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
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FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
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

Proj 3092	
NIFC-CA At-Sea Test 10	██████████
System Engineering and Flight Test AEGIS Baseline 9	████
C-Band and Enhanced Flight Termination Ground Test Vehicle Event and Report	██████████
C-Band and EFT Sys Transition and FY24 FTR ISO DDG 51 FLT III CSSQT Flight Test	██████████
DDG 51 FLT III Combat System Ships Qualification Trials	██████████
Electronics Unit Guided Test Vehicle Test (1)	████
Electronics Unit Guided Test Vehicle Test (2)	████
Electronics Unit At-Sea Test	████
Electronics Unit Engineering Change Proposal for Production	████

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604366N / <i>Standard Missile Improve ments</i>	Project (Number/Name) 3092 / <i>Standard Missile 6 Program</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3092				
NIFC-CA At-Sea Test 10	1	2025	2	2025
System Engineering and Flight Test AEGIS Baseline 9	4	2024	4	2024
C-Band and Enhanced Flight Termination Ground Test Vehicle Event and Report	3	2023	4	2023
C-Band and EFT Sys Transition and FY24 FTR ISO DDG 51 FLT III CSSQT Flight Test	4	2023	2	2024
DDG 51 FLT III Combat System Ships Qualification Trials	2	2024	4	2024
Electronics Unit Guided Test Vehicle Test (1)	3	2024	3	2024
Electronics Unit Guided Test Vehicle Test (2)	4	2025	4	2025
Electronics Unit At-Sea Test	2	2026	2	2026
Electronics Unit Engineering Change Proposal for Production	3	2026	3	2026