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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</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	5,518.137	334.702	453.311	528.234	-	528.234	453.234	357.332	338.776	344.260	Continuing	Continuing
1111: <i>Integrated Combat System (ICS),</i>	0.000	0.000	0.000	85.161	-	85.161	107.684	43.248	36.445	37.151	Continuing	Continuing
1447: <i>Surf Combatant Combat System Imp</i>	5,441.020	318.739	445.124	432.811	-	432.811	335.500	306.471	295.175	299.816	Continuing	Continuing
3357: <i>Aegis Training Improvement Program</i>	77.117	6.317	8.187	10.262	-	10.262	10.050	7.613	7.156	7.293	Continuing	Continuing
9999: <i>Congressional Adds</i>	0.000	9.646	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	9.646

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 180

Note

Specific Project Increases for FY25 from FY24 are summarized below:
 0604307N/1111 is a continuation of projects previously in contained in 0604307N/1447. Projects were realigned into their own Project Element with similar efforts.

A. Mission Description and Budget Item Justification

This project delivers AEGIS Combat System (ACS) upgrades and integrates new capabilities to rapidly enhance the combat effectiveness of Arleigh Burke class destroyers (DDG 51) and will be leveraged by the Constellation class frigates (FFG 62) in order to confront an increasing array of strategic, operational, and tactical challenges.

Support the Integrated Combat System development effort to standardize hardware and refactor existing software on Surface Combatants and Large Deck platforms into a common computer program in support of DDG, FFG, LCS, CVN, LHA, and LHA Class ships with a target initial delivery date in 2026 timeframe.

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>
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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	345.489	453.311	469.226	-	469.226
Current President's Budget	334.702	453.311	528.234	-	528.234
Total Adjustments	-10.787	0.000	59.008	-	59.008
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-1.120	0.000			
• SBIR/STTR Transfer	-9.667	0.000			
• Program Adjustments	0.000	0.000	58.914	-	58.914
• Rate/Misc Adjustments	0.000	0.000	0.094	-	0.094

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: *Congressional Adds*

Congressional Add: *Enabling Condition-Based Maintenance Plus (CBM+)*

Congressional Add Subtotals for Project: 9999

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	9.646	0.000
	9.646	0.000
	9.646	0.000

Change Summary Explanation

Total FY23 Decrease for PE 0604307N \$10.787M

1447: Decreased by \$9.605M in support of SBIR and Cancelled Accounts

1447: Decreased by \$1.120M in support of re-programming

3357: Decreased by \$0.062M in support of SBIR and Cancelled Accounts

Total FY25 Increase for PE 0604307N \$59.008M

1111: Increased by \$86.971M in support of the Integrated Combat System and Software Factory. Funding shifted from Project 1447 to the newly established Project 1111 within PE 0604307N.

1111: Decreased by \$1.810M in support of various programmatic adjustments (RATE/CIVPERS/Fueling/ETC)

1447: Increased by \$35.450M to support the proliferation of Capability Package (CP) 2024 with Sea Based Terminal Inc 3

1447: Increased by \$19.475M in support of AEGIS BL 5.4 warfighting improvements to 21 DDGs (OPN Budget Transfer)

1447: Increased by \$7.420M in support of AEGIS land-based test site updates required to support development

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1447: Increased by \$3.341M to support Collaborative; Integrated Air and Missile Defense (IAMD) Planning Program (CIPP) and the implementation of Battle Management Aids (BMA).
1447: Increased by \$1.080M to support the RAM Integration for Flight III DDGs
1447: Decreased by \$86.971M in support of the Integrated Combat System project line establishment
1447: Decreased by \$5.105M in support of various programmatic adjustments (RATE/CIVPERS/Fueling/ETC)
3357: Decreased by \$0.600M due to Live Virtual Constructive (LVC) training development from FY25 to FY26/FY27
3357: Decreased by \$0.243M in support of various programmatic adjustments (RATE/CIVPERS/Fueling/ETC)

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>				Project (Number/Name) 1111 / <i>Integrated Combat System (ICS)</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
1111: <i>Integrated Combat System (ICS)</i> ,	0.000	0.000	0.000	85.161	-	85.161	107.684	43.248	36.445	37.151	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

MK 6 MOD X Computing Infrastructure (CI) delivers the developmental efforts and prototypes to enable future delivery of Infrastructure as a Service (IaaS) in support of all surface combatants (e.g., LUSV, DDG, FFG, and DDG(X)). IaaS provides hatchable hardware abstracted from software, enabling upgrade outside modernization periods (agility) to more ships (capacity). The MK 6 MOD X CI is a foundational element of the surface Navy's Integrated Combat System (ICS) System supporting all future ship classes. ICS Top Level Requirements (TLR) validated in the Initial Capabilities Document for the Future Surface Combatant Force. SW factory provides a Continuous Integration/Continuous Delivery (CI/CD) pipeline for software where combat system applications are developed, tested, certified, and fielded to the Fleet at speed. The AEGIS and Ship Self Defense System (SSDS) computer programs will be re-factored into a single ICS computer program. Provides rapid combat system development, test, certification and authorization; more frequent delivery, and faster turnaround of Fleet feedback into working software and fielding to the IaaS-enabled fleet.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: MK 6 MOD X COMPUTING INFRASTRUCTURE (CI)	0.000	0.000	25.837	0.000	25.837
Articles:	-	-	-	-	-
Description: Development and delivery MK 6 MOD X Computing Infrastructure (CI) and Infrastructure as a Service Ordnance Alteration (ORDALT) kits to T116 MK6 MOD0 and T116 MK6 MOD 1 Ships. The MK 6 MOD X and T116 MK6 MOD 0/MOD 1 IaaS ORDALT kits are foundational elements of the surface Navy's efforts to achieve Continuous Integration / Continuous Delivery (CI/CD) and supports all future ship classes. MK 6 MOD X replaces legacy Combat System hardware configurations enabling continuous hardware upgrades to deliver improved capability to the Fleet pier side (no hull cuts or dry docks required) resulting in faster delivery to more platforms. The T116 Mod 0 has been developed and successfully fielded on DDG81 (in-service platform). The IaaS ORDALT for T116 MOD 1 will be developed to support modification of in-service T116 MK 6 Mod 1 hardware (Lead Ship DDG 91). These ORDALT kits enable the rapid fielding of capability to these platforms at the speed of relevance.					
FY 2024 Plans: Effort shifting from Project 1447 into new Project 1111 in FY25.					
FY 2025 Base Plans:					

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1111 / <i>Integrated Combat System (ICS)</i> ,
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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
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<p>Computing Infrastructure Deliveries for AEGIS (Q3/Q4 FY 25) and SSDS (Q3/Q4 FY 25) Platforms Continued GFI Deliveries in support of various AEGIS and SSDS Ships Console Production Award (Q4 FY 25) Full Rate Production Network, Processing Storage Award (Q4 FY25) Continue MK 6 MOD X IPRs / PI Demos Continue to Proliferate IaaS ORDALT kits Continue to Improve IaaS design and further software defined network and software defined storage. Continue to proliferate Mk 6 MOD 0/MOD 1 IaaS and improve design.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase is due to the effort shifting from Project 1447 to Project 1111 within PE 0604307N - Overall effort decrease from FY24 to FY25 is due to the phasing of the effort to develop, test and field the MK 6 MOD X hardware configurations.</p>					
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<p>Title: SOFTWARE (SW) FACTORY</p> <p align="right">Articles:</p> <p>Description: Surface Force Combat System SW Factory. Develop a Continuous Integration/Continuous Delivery (CI/CD) pipeline, where Combat System (CS) applications are developed, tested, certified, and fielded to the Fleet at speed. AEGIS and SSDS will be re-factored into a single ICS computer program by FY2028. Provides rapid CS development, test, certification, authorization, more frequent delivery, and faster turnaround of Fleet feedback into working SW and fielding to the Infrastructure-as-a-Service (IaaS) Fleet. The Surface Force Combat System SW Facotry also significantly reduces the barrier of entry for traditional and non-traditional companies resulting in best of breed solutions and increased competition.</p> <p>FY 2024 Plans: Effort shifting from Project 1447 into new Project 1111 in FY25.</p> <p>FY 2025 Base Plans: ICS SOFTWARE RELEASE 2025/Q4 PROGRAM INCREMENT DEMO 2025/Q4 Software Factory to continue refactoring AEGIS and Ship Self Defense System (SSDS) legacy computer programs existing capabilities into a single code base fielded as part of the Integrated Combat System (ICS) configuration. Refactor heritage code base into containerized microservices so that warfighting capability can be inserted, tested, and delivered to the Fleet at the speed of relevance. FY25 refactoring includes combat system domains of Readiness (ORTS replacement), Platform as a Service (PaaS), Data Adaptation between legacy and new code bases, Display improvements, common track management, Onboard training, External Communications (EXCOM) and sensor</p>	0.000 -	0.000 -	59.324 -	0.000 -	59.324 -
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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1111 / <i>Integrated Combat System (ICS)</i> ,

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
enablement, Auto Special, and reachitecture to support long range fires and terminal defense. Continue development of DevSecOps infrastructure and ecosystem (to include embedded M&S and test capabilities) to develop and deliver code at a faster pace than currently feasible. Test architected software on MK 6 Mod X HW and deliver to test sites. FY 2025 OCO Plans: N/A FY 2024 to FY 2025 Increase/Decrease Statement: Additional increase from FY24 to FY25 is due to the increase of SW Factory teams from eleven (11) to seventeen (17) as required to support refactoring into a single ICS configuration by FY28.					
Accomplishments/Planned Programs Subtotals	0.000	0.000	85.161	0.000	85.161

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

N/A

Remarks

D. Acquisition Strategy

The ICS is the next step in the evolution of the Surface Force's Combat System. The Navy will evolve AEGIS and SSDS baselines into a Surface Combat System of Systems (CSoS) that integrates sensors, command and control nodes, weapons and communication systems across the Naval Force to achieve decision superiority at machine speeds. In order to achieve this transition, the Navy must proliferate IaaS capability via MK 6 MOD X and TI-16 MOD 0 / MOD 1 ORDALT (IaaS enabled) kits. Additionally, the Navy must establish a continuous delivery pipeline (SW Factory) and re-factor the existing software code to a modern software architecture which allows for the rapid development and integration of new sensors and weapons. IWS X has existing contracts or pending contract actions supporting all efforts defined within the Budget Exhibit. A summary of contracts and contractual actions are captured below.

Active Major Contracts: N00024-22-F-5101: Black Pearl DevSecOps Pipeline. Period of Performance FY22-27 (Effort shifts from 1447 to 1111 in FY25).

SW Factory: N00024-23-C-5117: Surface Combatant System Engineering and Software Integration. Period of Performance FY23-30.

MK 6 MOD X: N00024-23-9-5204: Network, Processing, Storage (NPS). Period of Performance FY23-28.
N00024-23-9-5238: Consoles. Period of Performance FY23-25.

New Contracts: (Effort shifts from 1447 to 1111 in FY25).

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1111 / <i>Integrated Combat System (ICS)</i> ,
SW Factory: Follow-on IT Ops, Cyber, and Classified Space - Planned Award Date APRIL 2024 Follow-on Forge Software Factory Development Teams. Planned Award Date MAY 2024		
MK 6 MOD X: Follow-on Large Screen Display (LSD), Thin Client Display (TCD), and Video Asset Management System - Planned Award Date MAR 2024 Follow-on Shipboard Secure Voice Communication System (SVCS) - Planned Award Date JUL 2024.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy												Date: March 2024				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)							
1319 / 5				PE 0604307N / Surface Combatant Cmbt Sys Eng					1111 / Integrated Combat System (ICS),							
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	
System Engineering	RO	NSWC : Dahlgren, VA	0.000	0.000		0.000		68.310	Oct 2024	-		68.310	Continuing	Continuing	Continuing	
System Engineering	C/CPFF	SOLUTE : TBD	0.000	0.000		0.000		6.836	Oct 2024	-		6.836	Continuing	Continuing	Continuing	
System Engineering	C/CPIF	LOCKHEED MARTIN : Moorestown, NJ	0.000	0.000		0.000		5.725	Oct 2024	-		5.725	Continuing	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		80.871		-		80.871	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	
Prior Year Developmental Test & Evaluation Not Funded FYDP (PYDT&E)	C/BA	Not Specified : Not Specified	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-	
Subtotal			0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	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	
Engineering Services	C/CPFF	MANTECH : Herndon, VA	0.000	0.000		0.000		2.580	Oct 2024	-		2.580	Continuing	Continuing	Continuing	
Engineering Services	C/CPFF	TECHNOMICS : TBD	0.000	0.000		0.000		0.883	Oct 2024	-		0.883	Continuing	Continuing	Continuing	
Professional Services	C/CPFF	TMB : Washington, DC	0.000	0.000		0.000		0.415	Oct 2024	-		0.415	Continuing	Continuing	Continuing	
Professional Services	C/CPFF	BOOZ ALLEN : Washington, DC	0.000	0.000		0.000		0.412	Oct 2024	-		0.412	Continuing	Continuing	Continuing	
Subtotal			0.000	0.000		0.000		4.290		-		4.290	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 0604307N / Surface Combatant Cmbt Sys Eng	Project (Number/Name) 1111 / Integrated Combat System (ICS),

RDT&E/N/BA-5	0604307N/SURFACE COMBATANT COMBAT SYSTEM ENGINEERING																1111/Integrated Combat System (ICS), MK 6 MOD X Computing Infrastructure (CI)															
Fiscal Year	2023				2024				2025				2026				2027				2028				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				
TI16 MK 6 MOD X Computing Infrastructure (CI)	IPR #3	IPR #4	Level III TDP	IPR #5	IPR #6	IPR #7	IPR #8	IPR #9	IPR #10	IPR #11	IPR #12	IPR #13	IPR #14	LBTS Activation	IPR #16	IPR #17	IPR #18	IPR #19	IPR #20	IPR #21	IPR #22	IPR #23	IPR #24	IPR #25	IPR #26	IPR #27	IPR #28					
TI-16 Mod 0 IAAS Development and Delivery	EQT				Test and Certification				HW Del				CSCP				HW Del IPR #15															
TI-16 MOD 1 IAAS Development and Delivery					Test and Certification				CSCP																							

PB 2024 to PB 2025 Change Summary:
Effort captured in Project Code 1447 in FY23 and FY24. Shifted to Project Code 1111 in FY25.

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
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Fiscal Year	0604307N/SURFACE COMBATANT COMBAT SYSTEM ENGINEERING																1111/Integrated Combat System (ICS), Software (SW) Factory															
	2023				2024				2025				2026				2027				2028				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				
SW FACTORY					ILG Cloud Env			PI Event	ICS Reference Architecture			PI Event				PI Event				PI Event				PI Event				PI Event				
◇ SW Releases					▲ Certificate for Continuous Development (CfCD)			▲ Certificate to Ship (CtS)																								

PB 2024 to PB 2025 Change Summary:
 Effort captured in Project Code 1447 in FY24. Shifted to Project Code 1111 in FY25.

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1111 / <i>Integrated Combat System (ICS),</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 1111				
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #9	1	2025	1	2025
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #10	2	2025	2	2025
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #11	3	2025	3	2025
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: EQUIPMENT QUALIFICATION TEST #3	4	2025	4	2025
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #12	4	2025	4	2025
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #13	1	2026	1	2026
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #14	2	2026	2	2026
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: HARDWARE DELIVERY	2	2026	2	2026
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: LBTS ACTIVATION	2	2026	2	2026
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #15	3	2026	3	2026
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #16	4	2026	4	2026
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #17	1	2027	1	2027
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #18	2	2027	2	2027

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

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #19	3	2027	3	2027
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #20	4	2027	4	2027
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: EQUIPMENT QUALIFICATION TEST #4	4	2027	1	2028
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #21	1	2028	1	2028
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #22	2	2028	2	2028
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #23	3	2028	3	2028
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #24	4	2028	4	2028
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #25	1	2029	1	2029
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #26	2	2029	2	2029
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #27	3	2029	3	2029
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW (IPR) #28	4	2029	4	2029
TI16 MK6 MOD X COMPUTING INFRASTRUCTURE: EQUIPMENT QUALIFICATION TEST #5	4	2029	4	2029
TI16 MK6 MOD 1 IaaS: COMBAT SYSTEM CERTIFICATION PANEL	2	2025	2	2025
SW FACTORY: PROGRAM INCREMENT DEMO 2025	4	2025	4	2025
SW FACTORY: ICS SOFTWARE RELEASE 2025	4	2025	4	2025
SW FACTORY: PROGRAM INCREMENT DEMO 2026	4	2026	4	2026

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1111 / <i>Integrated Combat System (ICS)</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
SW FACTORY: ICS SOFTWARE RELEASE 2026	4	2026	4	2026
SW FACTORY: PROGRAM INCREMENT DEMO 2027	4	2027	4	2027
SW FACTORY: ICS SOFTWARE RELEASE 2027	4	2027	4	2027
SW FACTORY: PROGRAM INCREMENT DEMO 2028	4	2028	4	2028
SW FACTORY: ICS SOFTWARE RELEASE 2028	4	2028	4	2028
SW FACTORY: PROGRAM INCREMENT DEMO 2029	4	2029	4	2029
SW FACTORY: ICS SOFTWARE RELEASE 2029	4	2029	4	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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>				Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</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
1447: <i>Surf Combatant Combat System Imp</i>	5,441.020	318.739	445.124	432.811	-	432.811	335.500	306.471	295.175	299.816	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 180

A. Mission Description and Budget Item Justification

AEGIS BL 10.0 provides critical warfighter improvements on AEGIS FLT III DDGs, delivering in FY24. AEGIS BL 10.0 combat system development efforts include integration of the Air and Missile Defense Radar (AMDR) SPY-6(V)1 radar while building upon AEGIS BL 9 to form the AEGIS FLT III DDG Combat System. BL 10.0 delivers previous BL 9 Common Source Library (CSL) capabilities plus SPY-6(V)1; Mk 160 Gun Combat System (GCS) concurrent engagements; Close in Weapon System (CIWS) sensor integration; Tactical Data Link (TDL); and the Missile Defense Agency's Ballistic Missile Defense 6.0 (BMD 6.0) program (MDA-developed). Fields to new construction FLT III DDGs beginning FY24 in support of the Air and Missile Defense Commander (AMDC) fleet requirement.

AEGIS BL 10.0.1 continues combat system development efforts to include integration of the Technical Insertion (TI) 16 Mod 1 hardware suite, Red Hat Enterprise Linux (RHEL) 8.0 operating environment, and combat system element updates. Fields to new construction FLT III DDGs beginning in FY26 in support of the AMDC fleet requirement and BMD Flight Test Missions.

AEGIS BL 10.M provides critical warfighter improvements on AEGIS FLT II A DDGs, delivering in FY27. AEGIS BL 10.M combat system development efforts include integration of the Air and Missile Defense Radar (AMDR) SPY-6V(4) radar, as well as BMD 6.1 and Sea Based Terminal (SBT) Increment 3 (MDA-developed). Fields to in-service FLT IIA DDGs during AEGIS Modernization (AMOD) upgrade 2.0.

AEGIS BL 10.1 continues combat system development efforts to include integration of SPY-6(V)1 radar performance updates, BMD 6.1 and Sea Based Terminal (SBT) Increment 3 (MDA-developed), MK 6 MOD 1 hardware, and Cybersecurity updates. Fields to new construction FLT III DDGs beginning FY28 in support of the AMDC fleet requirement, BMD Flight Test Missions, and Full Operational Capability (FOC). Effort delayed due to ship schedule, cert delayed from FY26 to FY28.

AEGIS BL 9.2.2 delivered in FY21 integrated previous CSL capabilities plus Surface Electronic Warfare Improvement Program (SEWIP) BLK 2 integration (auto association); MH-60R integration; Advanced Training Doman; Boundary Defense Capability; Integrated Air and Missile Defense (IAMD) mission planner; Above Water Sensor Coordinator; Agile Moondog, Sirocco, Sundog part 1, Silent Squall part 1, and Vortex; Advanced Calibration Experiment; Cyber enhancements (cyber resource services, boundary proxy service, Security Information and Event Management (SIEM), network device integrity, update manager); and BMD 5.1.3.1 (MDA-developed).

AEGIS Capability Package (CP) 2022 builds upon previous CSL capabilities, integrating Multi Mission Signal Processor (MMSP)-Restoration (AMOD DDG only); AEGIS Linear Processing System (ALPS); High-Energy Laser with Integrated Optical-Dazzler and Surveillance (HELIOS); SM-2 Blk IIIC initial capability; Agile Firestorm; Mk 38

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<p>Mod 4 Engineering Operational Sequencing System (EOSS) integration; and BMD 5.1.4 (MDA-developed) capabilities. CP 2022-2, will deliver to DDG 91 to support its modernization test program in FY24. Dependent on SEWIP BLK 3 Integration effort.</p> <p>AEGIS Capability Package 2024 delivers previous CSL capabilities, integrating additional warfighting improvements to include Evolved Sea Sparrow Missile (ESSM) BLK 2 Optimized, Elevated Radar Advanced Experiment (ERACE) integration, SEWIP BLK 3 Test Certification, Cooperative Engagement Capability (CEC) BLK II Integration Capability Group 3 (CIG 3), urgent fleet needs, and BMD 5.1.5 with SBT Inc 3 (MDA-developed). Dependent on SEWIP BLK 3 Integration effort.</p> <p>SEWIP BLK 3 Integration brings non-kinetic electronic attack capability into the AEGIS Weapons Systems inventory, expanding the number of threats the AEGIS Fleet can counter. Electronic attack is a cornerstone capability that will meet the urgent operational needs of the Fleet as the pace and complexity of emerging threats continues to escalate.</p> <p>AEGIS Capability Package 2026 delivers previous CSL capabilities plus additional warfighting improvements necessary to improve operational effectiveness and address future threats. Specific warfighting improvements will be defined in FY24.</p> <p>TASK FORCE CYBER AWAKENING assesses and delivers design improvements to AEGIS Combat System Computer Program and hardware configurations to counter emerging cyber threats. These improvements are implemented within AEGIS Combat Systems configurations currently fielded and under development and include updates to Boundary Defense Components (BDC) and other cyber capabilities.</p> <p>Collaborative IAMD Planning Program (CIPP) will provide multi-ship ballistic missile and air defense (BMD and AAW) in a common collaborative planning environment that enables an exchange of plans and data. CIPP software will be integrated with and fielded with the Maritime Tactical Command and Control (MTC2) PoR, which along with the Naval Operational Architecture (NOA) data platform provides asset scheduling/tasking/data services, a common user interface, common map, and data replication/sharing.</p> <p>AEGIS DEVELOPMENTAL TESTING / OPERATIONAL TESTING (DT/OT) will support the AEGIS Test and Evaluation Master Plan (TEMP) including AEGIS Combat System (ACS), which is made up of several elements including AEGIS Weapons System (AWS) Components, the SPY-1 or SPY-6 radars, Ship Electronic Warfare Improvement Program (SEWIP), Standard Missile (SM), Evolved Sea Sparrow Missile (ESSM) and CIWS. CP 2024 will be developed with five Capability Baselines (CB) that will require CS DT/OT testing prior to deployment. BL 10.1 consists of the ACS for DDG FL III ships, providing improved capability to the already established BL 10.0 and will require CS DT/OT testing prior to deployment. Test requirements will be documented in TEMP 1669.</p> <p>AEGIS BL 5.4.1 delivers NGSSR integration; Global Positioning System (GPS), Navigation, and Timing Service (GPNT)S; portions of Agile Sundog, Silent Squall, & Vortex; Command and Control Processor (C2P) tech refresh; and BMD 4.1.3 (MDA-developed). Supports installations beginning in FY25.</p> <p>COMBAT SYSTEMS TEST BED (CSTB) addresses the current limitations in AEGIS Modeling and Simulation (M&S) highlighted by Director of Operational Test and Evaluation (DOT&E) in previous AEGIS BL's. CSTB will provide M&S supporting program test and evaluation to represent conceptual systems that do not exist and</p>		

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existing systems which cannot be subjected to actual environments due to safety requirements or resource limitations. CSTB supports Development Test (DT) and Operational Test (OT) runs-for-record for AEGIS BL 9 DDG's, BL 10 FLT III DDG's, BL 10M FLT IIA DDG's and BL 10F FFG's.

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: AEGIS DEVELOPMENT SUPPORT</p> <p align="right">Articles:</p> <p>Description: AEGIS Development Support includes the following: AEGIS Technical Design Agent (TDA), AEGIS System Engineering, Commercial Off-the-Shelf (COTS), Obsolescence Evaluation, AEGIS Development Site Operations and Maintenance, Small Business Innovation Research (SBIR), and Computer Program SW License Procurements.</p> <p>FY 2024 Plans: Continue to provide AEGIS System Engineering evaluation of AEGIS Combat System performance and development of the AEGIS Capability Phasing Plan to ensure that warfighter improvements are implemented through future Combat System upgrades to meet emerging threats. These efforts are focused on defining future capability upgrades to the AEGIS Combat System. Conduct System Engineering review for Computer Program developments after CP 2026 to evaluate current gaps and external weapon element updates available to address and determine most effective way to complete integration.</p> <p>Continue to provide AEGIS COTS Obsolescence mitigation to include evaluation of systems currently delivered as well as those under development. These updates are focused on replacing high failure rate components in addition to monitoring and resolving obsolescence issues for all AEGIS hardware configurations. Hardware configurations include: Q-70, TI-12, TI-12H, MK 6 MOD 0, MK 6 MOD 1, and MK 6 MOD X.</p> <p>Continue to provide AEGIS Development Site Operation and Maintenance for the Land Based Test Sites (LBTS) to ensure that LBTS support is able to execute all planned AEGIS baseline development efforts. The LBTS include: Combat System Engineering Development Site (CSEDS), Program Generation Center (PGC), SPY-1A Test Facility (STF), Naval Systems Computing Center (NSCC), and Surface Combat System Center (SCSC). In FY24, these sites are supporting testing on BL 5, CP 2022, CP 2024, CP 2026, MK 6 MOD X, BL 10 FLT III DDG and BL 10 SPY-6 Integration Testing (BL 10.0, and BL 10.1).</p> <p>Provide SBIR withhold in accordance with the appropriation law.</p> <p>FY 2025 Base Plans:</p>	16.569	27.445	80.956	0.000	80.956
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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
Continue to provide AEGIS System Engineering evaluation of AEGIS Combat System performance and development of the AEGIS Capability Phasing Plan to ensure that warfighter improvements are implemented through future Combat System upgrades to meet emerging threats. These efforts are focused on defining future capability upgrades to the AEGIS Combat System. Conduct System Engineering review for CP 2026+ to evaluate current gaps and external weapon element updates available to address and determine most effective way to complete integration.					
Continue to provide AEGIS COTS Obsolescence mitigation to include evaluation of systems currently delivered as well as those under development. These updates are focused on replacing high failure rate components in addition to monitoring and resolving obsolescence issues for all AEGIS hardware configurations. Hardware configurations include: Q-70, TI-12, TI-12H, MK 6 MOD 0, MK 6 MOD 1, and MK 6 MOD X.					
As part of COTS Obsolescence, updates TI-12H and MK-6 MOD 0 are required to implement fact of life Operating Environment changes with RHEL 6.5 being no longer supported, updates are required to implement RHEL 8.0 to ensure these hardware configurations can continue to be operated and support future Computer Program installations.					
Investments to increase combat system and facility infrastructure readiness at the Land Based Test and Training Sites (LBTTs) support development and testing milestones. Investments include combat system upgrades, facility combat system infrastructure upgrades, and introduction of new AEGIS Combat System (ACS) capabilities. Investments will support development baselines (BL) to include BL5, CP2022, CP2024, CP2026, BL10, BL10.1, and BL10M. The Land Based Test and Training Sites (LBTTs) include the Naval Surface Computing Center (NSCC), Combat System Engineering Development Site (CSEDS), SPY-1A Test Facility (STF), and Surface Combat Systems Center (SCSC).					
Support the procurement of Equipment to support AEGIS Development efforts at CSEDS to modernize the Development site infrastructure, update AWS and ACS hardware to support future test requirements.					
Provide SBIR withhold in accordance with the appropriation law.					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement:					

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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
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Increase in FY2024 to FY2025 is associated with investments for Land Based Test & Training Sites (LBTTs) to address combat system and facility infrastructure readiness by investing in combat system upgrades, facility infrastructure upgrades, and introduction of new AEGIS Combat System (ACS) equipment required to support testing and training efforts. In addition, Fact of Life changes to Operating Environment RHEL 6.5 are required for TI-12H and MK-6 MOD 0.					
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<p>Title: AEGIS CAPABILITY PACKAGE 2022</p> <p align="right">Articles:</p> <p>Description: AEGIS Capability Package (CP) 2022 captures additional warfighting improvements to include Multi-Mission Signal Processor Restoration Hardware, SM2-IIIIC Functional Capability, AEGIS Linear Processor System (ALPS), ASToCs (Agile Sundog Part 2 and Silent Squall Part 2), and MK 38 MOD 4 Gun Weapon System (GWS) Initial Capability, High Energy Laser with Optical-Dazzler and Surveillance (HELIOS), Expanded AEGIS BMD Threat Space, Hypersonic Tactical Data Information Link (TADIL) Upgrades, Electronic Attack / Electronic Protection Inc 1, Missile Power Application Non-Launch (MPAN) Inc 2, AEGIS Ashore and BMD Warfighter Improvements capabilities. Computer Program development supported AEGIS Light Off (ALO) on first ship installation on DDG 87 in the 2nd QTR FY21. Provides CP 2022-2 computer program in support of DDG 91 AEGIS Modernization and Testing in FY24.</p> <p>FY 2024 Plans: AEGIS CP 2022-2 Combat System Ship Qualification Test (CSSQT) Q1-Q2 FY24 AEGIS CP 2022-2 Code Delivery Q3 FY24</p> <p>Complete Weapon system integration and combat system test events to include test planning and analysis.</p> <p>Complete Executing integration events, maintainability events, and stability events.</p> <p>Complete the Development of DDG at-sea test plans in support of at-sea test event execution and post event support efforts executed to field AEGIS CP 2022-1 on DDG 81, 89, 122,124 & 127.</p> <p>Complete Support installation and checkout of computer programs.</p> <p>Execute Change Review Boards (CRB) to review computer program defects, characterize risk to system performance, and identify defect corrections.</p>	14.700	7.200	0.000	0.000	0.000
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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
Complete and maintain all risk management activities required to identify, mitigate and resolve critical risk that would impact the fielding of CP 2022.					
Complete and develop criteria evaluation metrics for technical and programmatic events in support of Mission Readiness Assessments (MRA), In Process Reviews (IPR), Program Reviews, and Test Readiness Reviews (TRRs) as required to support the requirements of each milestone to ensure program success.					
Execute Combat System Safety Program to address all Weapon System Explosive Safety Review Board (WSESRB) requirements.					
Identify, test and fix critical issues identified that impact the operational effectiveness of the AEGIS Combat System.					
Provide programmatic and technical leadership in a collaborative Navy and industry environment.					
Complete Execution of development and test program in support of SEWIP BLK 3 System Test and CSSQT on DDG 91.					
FY 2025 Base Plans: NA					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement: Effort completes in FY24.					
Title: AEGIS CAPABILITY PACKAGE 2024	40.389	40.000	39.950	0.000	39.950
Articles:	-	-	-	-	-
Description: AEGIS Capability Package (CP) 2024 captures additional warfighting improvements to include ESSM BLK 2 Optimized, Elevated Radar Advanced Experiment (ERACE) integration, SEWIP BLK 3 Test Certification, CEC BLK II Capability Group 3 Integration, urgent fleet needs, and BMD 5.1.5 with SBT Inc 3 as delivered by Missile Defense Agency. Initial operating environment architecture migration from Red-Hat					

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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>Enterprise Linus (RHEL) Version 6.5 to Version 8.0. CP 2024 is dependent on SEWIP BLK 3 integration line item.</p> <p>FY 2024 Plans: CP 2024 In-Progress Review #3 Q1 FY24 CP 2024 In-Progress Review #4 Q2 FY24 CP 2024 In-Progress Review #5 Q3 FY24 CP 2024 In-Progress Review #6 Q4 FY24</p> <p>Continue design, development and integration of CP 2024 and entering the Capability Package Phase 4 Combat System Shipboard Testing, Final Certification and fielding.</p> <p>Conduct Combat System Safety Program to address all Weapon System Explosive Safety Review Board (WSESRB) requirements.</p> <p>Provide system engineering efforts required to support the Integrated Product Teams, Program Management Team (PMT), System Engineering Cross Product Team (SECPT), Element, Safety, Configuration Management (CM), Test & Evaluation (T&E), Certification, and Subject Matter Experts (SME). Execute AEGIS CP 2024 design decisions, Engineering Technical Reviews (ETR), Specification Change, Review, Implementation, and baseline governance boards and Navy Review Team (NRT).</p> <p>Continue to develop criteria evaluation metrics for technical and programmatic events in support of Mission Readiness Assessments (MRA), In Process Reviews (IPR), Program Reviews, and Test Readiness Reviews (TRRs) as required to support the requirements of each milestone to ensure program success.</p> <p>Provide programmatic and technical leadership in a collaborative Navy and industry environment.</p> <p>Planning in support of Combat System certification.</p> <p>FY 2025 Base Plans: CP 2024 In-Progress Review #7 Q2 FY25 CP 2024 Combat Systems Certification Panel (CSCP) Q3 FY25</p>					

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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>Continue to support the incremental design, development and integration of CP 2024, completing the Capability Package Phase 4 Combat System Shipboard Testing, Final Certification and fielding. Continue to support incremental design, development and integration of the capabilities identified in the description above.</p> <p>Continue weapon system integration and combat system test events to include test planning, execution, and analysis. Continue executing integration events, maintainability events, and stability events. Finalize training curriculum and documentation updates to reflect new capabilities.</p> <p>Continue to test and make computer program updates to address various hardware configurations and Weapon System Elements. Continue development of DDG at-sea test plans in support of at-sea test event execution and post event support efforts executed to field AEGIS CP 2024 on TI-16 MK 6 Mod 1 DDGs 82, 90, 92, 93, 94, 95, 97, 100 and recently added TI-16 MK 6 Mod 0 DDGs 81, 85, 87, 88, and 89:</p> <ul style="list-style-type: none"> - Installation and checkout of computer program - Combat System Test events 1 and 2 - Discrepancy investigation and resolution - Scenario development - CSSQT planning DDG's 82, 90, and 94 (FY25 CSSQTs) <p>Provide system engineering efforts required to support the Integrated Product Teams. Program Management Team (PMT), System Engineering Cross Product Team (SECPT), Element, Safety, Configuration Management (CM), Test & Evaluation (T&E), Certification, and Subject Matter Experts (SME). Execute remaining AEGIS CP 2024 design decisions, Engineering Technical Reviews (ETR), Specification Change, Review, Implementation, and baseline governance boards and Navy Review Team (NRT).</p> <p>Execute all Test activities and stimulation capability required to validate system functionality system interfaces, performance requirements, multi-unit interoperability and ensure system stability.</p> <p>Execute Change Review Boards (CRB) to review computer program defects, characterize risk to system performance, and identify defect corrections. Conduct Combat System certification activities required to support Q3 FY25 Certification.</p>					

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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>Conduct and maintain all risk management activities required to identify, mitigate and resolve critical risk that would impact the fielding of CP 2024.</p> <p>Continue to develop criteria evaluation metrics for technical and programmatic events in support of Mission Readiness Assessments (MRA), In Process Reviews (IPR), Program Reviews, and Test Readiness Reviews (TRRs) as required to support the requirements of each milestone to ensure program success.</p> <p>Execute Combat System Safety Program to address all Weapon System Explosive Safety Review Board (WSESRB) requirements.</p> <p>Provide programmatic and technical leadership in a collaborative Navy and industry environment. Identify, test and fix critical issues identified that impact the operational effectiveness of the AEGIS Combat System.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease is due to ramp down of CP 2024 Program.</p>					
<p>Title: SEWIP BLK 3 INTEGRATION</p> <p align="right">Articles:</p> <p>Description: SEWIP BLK 3 Integration brings non-kinetic electronic attack options to the AEGIS Fleet to counter threats. Electronic attack is a cornerstone capability that will meet the urgent operational needs of the Fleet as the pace and complexity of emerging threats continues to escalate. This functionality will be fielded as part CP 2024.</p> <p>FY 2024 Plans: SEWIP BLK 3 integration TECHEVAL Q2 FY24. SEWIP BLK 3 integration IOT&E Q2-Q3 FY24.</p> <p>Complete SEWIP BLK 3 Combat System Requirements definition based on Interface Design Definition (IDD) and Concept of Operations (CONOPS).</p> <p>Complete Incremental design, development and integration of AEGIS code to support SEWIP BLK 3 Integration.</p>	17.000	8.000	0.000	0.000	0.000
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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>Complete systems engineering, software engineering and program management tasks to include develop and review specifications, interface definition, code development, component level testing, element verification, and early system level integration.</p> <p>Complete system engineering efforts required to support the Integrated Product Teams. Program Management Team (PMT), System Engineering Cross Product Team (SECPT), Element, Safety, Configuration Management (CM), Test & Evaluation (T&E), Certification, and Subject Matter Experts (SME). Participate in and evaluate Engineering Technical Reviews (ETR), Specification Change, Review, Implementation, and baseline governance boards and Navy Review Team (NRT).</p> <p>Continue to Provide support for technical and programmatic meetings in support of In Process Reviews (IPR), Software Increment Reviews (SWIR), Program Reviews, and Test Readiness Reviews (TRR) as required to support the requirements of each milestone to ensure program success.</p> <p>Support SEWIP BLK 3 Technical Evaluation.</p> <p>Support SEWIP BLK 3 IOT&E Efforts in support of AEGIS integration.</p> <p>FY 2025 Base Plans: NA</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Effort complete in FY24.</p>					
<p>Title: AEGIS CAPABILITY PACKAGE 2026</p> <p align="right">Articles:</p> <p>Description: AEGIS Capability Package (CP) 2026 builds open previous CSL capabilities, implementing necessary warfighting improvements to improve operational effectiveness and address future threats. Specific warfighting improvements will be defined in FY24 to address fleet priorities. CP 2026 will be the first delivery of AEGIS utilizing the ICS Code base.</p>	0.000	19.365	35.245	0.000	35.245
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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><i>FY 2024 Plans:</i> Begin Capability Package 2026 development. Complete assessment of warfighting improvements that address known gaps within existing functionality and define specific improvements that will be targeted for integration as part of CP2026.</p> <p>Leverage best practices from previous capability package development. Conduct systems engineering, software engineering and program management tasks to include develop and review specifications, interface definition, code development, component level testing, element verification, and early system level integration.</p> <p>Provide system engineering efforts required to support the Integrated Product Teams. Program Management Team (PMT), System Engineering Cross Product Team (SECPT), Element, Safety, Configuration Management (CM), Test & Evaluation (T&E), Certification, and Subject Matter Experts (SME). Participate in and evaluate Engineering Technical Reviews (ETR), Specification Change, Review, Implementation, and baseline governance boards and Navy Review Team (NRT).</p> <p>Provide support for technical and programmatic meetings in support of In Process Reviews (IPR), Software Increment Reviews (SWIR), Program Reviews, and Test Readiness Reviews (TRR) as required to support the requirements of each milestone to ensure program success.</p> <p><i>FY 2025 Base Plans:</i> CP 2026 In-Progress Review #1 Q2 FY25 CP 2026 In-Progress Review #2 Q4 FY25</p> <p>Continue to conduct systems engineering, software engineering and program management tasks to include develop and review specifications, interface definition, code development, component level testing, element verification, and early system level integration.</p> <p>Continue to provide system engineering efforts required to support the Integrated Product Teams. Program Management Team (PMT), System Engineering Cross Product Team (SECPT), Element, Safety, Configuration Management (CM), Test & Evaluation (T&E), Certification, and Subject Matter Experts (SME). Participate in and evaluate Engineering Technical Reviews (ETR), Specification Change, Review, Implementation, and baseline governance boards and Navy Review Team (NRT).</p>					

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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
Continue to provide support for technical and programmatic meetings in support of In Process Reviews (IPR), Software Increment Reviews (SWIR), Program Reviews, and Test Readiness Reviews (TRR) as required to support the requirements of each milestone to ensure program success.					
Develop criteria evaluation metrics for technical and programmatic events in support of Mission Readiness Assessments (MRA), In Process Reviews (IPR), Program Reviews, and Test Readiness Reviews (TRRs) as required to support the requirements of each milestone to ensure program success.					
Begin Code Development and Integration and supporting early Level 1-2 Testing requirements. Support incremental design, development and integration of AEGIS code for the capabilities as defined by resource sponsor.					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement: Increase in FY25 is due to increase level of effort to support code development and integration testing.					
Title: AEGIS FLT IIA & III DESTROYER BL 10 UPGRADES	146.906	194.930	173.388	0.000	173.388
Articles:	-	-	-	-	-
Description: AEGIS BL 10.0 provides critical warfighter improvements on AEGIS FLT III DDGs, delivering in FY24. AEGIS BL 10.0 combat system development efforts include integration of the Air and Missile Defense Radar (AMDR) SPY-6(V)1 radar while building upon AEGIS BL 9 to form the AEGIS FLT III DDG Combat System. BL 10.0 delivers previous BL 9 Common Source Library (CSL) capabilities plus SPY-6(V)1; Mk 160 Gun Combat System (GCS) concurrent engagements; Close in Weapon System (CIWS) sensor integration; Tactical Data Link (TDL) J3.4 message; and the Missile Defense Agency's Ballistic Missile Defense 6.0 (BMD 6.0) program. Fields to new construction FLT III DDGs beginning FY24 in support of the Air and Missile Defense Commander (AMDC) fleet requirement.					
AEGIS BL 10.0.1 continues combat system development efforts to include integration of the Technical Insertion (TI) 16 Mod 1 hardware suite, Red Hat Enterprise Linus (RHEL) 8.0 operating environment, and combat system element updates. Fields to new construction FLT III DDGs beginning in FY26 in support of the AMDC fleet requirement and BMD Flight Test Missions.					

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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>AEGIS BL 10.M provides critical warfighter improvements on AEGIS FLT II A DDGs, delivering in FY27. AEGIS BL 10.M combat system development efforts include integration of the Air and Missile Defense Radar (AMDR) SPY-6V(4) radar, as well as BMD 6.1 and Sea Based Terminal (SBT) Increment 3. Fields to in-service FLT IIA DDGs during AEGIS Modernization (AMOD) upgrade 2.0.</p> <p>AEGIS BL 10.1 continues combat system development efforts to include integration of SPY-6(V)1 radar performance updates, BMD 6.1 and Sea Based Terminal (SBT) Increment 3, MK 6 MOD 1 hardware, and Cybersecurity updates. Fields to new construction FLT III DDGs beginning FY28 in support of the AMDC fleet requirement, BMD Flight Test Missions, and Full Operational Capability (FOC).</p> <p>FY 2024 Plans: AEGIS BL 10.1/10.0.1 In-Progress Review #9 Q1 FY24 AEGIS BL 10.1/10.0.1 In-Progress Review #10 Q2 FY24 AEGIS BL 10.0 Combat System Certification Panel Q4 FY24 AEGIS BL 10.M In-Progress Review #1 Q3 FY24</p> <p>Continued Site activation and integration efforts required to support AEGIS BL 10.1/10.0.1 Development and Integration Testing.</p> <p>SPY-6(V)1 Radar Integration within the AEGIS Combat System.</p> <p>Continue to support the integration of SPY-6(V)1 Radar and BMD 6.0 functionality including: Development and review of specifications, Code development, Component level testing, Element verification, Early system level integration, weapon system and subsystem integration.</p> <p>Continue to support incremental design, development and integration of AEGIS code and integration for the following capabilities as part of BL 10.1/10.0.1: SPY-6(V)1 BMD 6.1 MK 6 Mod 1 Cross Domain Solution</p>					

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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>Continue to support incremental design, development and integration of AEGIS code and integration for the following capabilities as part of BL 10.M: SPY-6(V)4</p> <p>Conduct integration events, maintainability events, and stability events.</p> <p>Update training curriculum and documentation to reflect new capabilities.</p> <p>Support Land Based testing at CSEDS to validate code development and reduce risk to Shipboard testing programs. Support Sea Trials of DDG 128.</p> <p>Execute FLT III DDG test plan to include the following: Combat System Ship's Qualification Trials (CSSQT) on DDG 125 in Q3 FY24 Sea Trials of DDG 128 in Q4 FY24 Initial shipboard checkout and subsequent at-sea event preparation</p> <p>Support the installation of AEGIS BL 10.1/10.0.1 on DDG 128 to include the following: Installation and checkout of computer program Combat System Test events 2 and 3 (BRAVO and CHARLIE Trials) Discrepancy investigation and resolution Scenario development</p> <p>Provide system engineering efforts required to support the Integrated Product Teams. Program Management Team (PMT), System Engineering Cross Product Team (SECPT), Element, Safety, Configuration Management (CM), Test & Evaluation (T&E), Certification, and Subject Matter Experts (SME). Participate in and evaluate remaining AEGIS BL 10.1 design decisions, Engineering Technical Reviews (ETR), Specification Change, Review, Implementation, and baseline governance boards and Navy Review Team (NRT).</p> <p>Execution of all Test activities and stimulation capability required to validate system functionality, system interfaces, performance requirements, multi-unit interoperability and ensure system stability.</p> <p>Conduct Change Review Boards (CRB) to review computer program defects, characterize risk to system performance, and identify defect corrections.</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
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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>Conduct Combat System certification activities required to support planned FY24 Certification.</p> <p>Develop and maintain risk management activities required to identify, mitigate and resolve critical risk that would impact the fielding of BL 10.0 / BL 10.0.1 / BL 10.1 / BL 10.M.</p> <p>Continue to develop criteria metrics for technical and programmatic events in support of Mission Readiness Assessments (MRA), In Process Reviews (IPR), Program Reviews, and Test Readiness Reviews (TRR) as required to support the requirements of each milestone to ensure program success.</p> <p>Conduct Combat System Safety Program to address all Weapon System Explosive Safety Review Board (WSESRB) requirements. Provide programmatic and technical leadership in a collaborative Navy and industry environment.</p> <p>Continue to evaluate and monitor DDG 125 schedule to ensure all required products are delivered to the ship to support continued shipboard testing as planned.</p> <p>Continue to evaluate and monitor DDG 128 schedule to ensure all required products are delivered to the ship to support AEGIS Light-Off and continued shipboard testing as planned.</p> <p>Identify, test and fix critical issues identified that impact the operational effectiveness of the AEGIS Combat System.</p> <p>FY 2025 Base Plans: AEGIS BL 10.1/10.0.1 In-Progress Review #11 Q1 FY25 AEGIS BL 10.M In-Progress Review #2 Q1 FY25 AEGIS BL 10.1/10.0.1 In-Progress Review #12 Q3 FY25 AEGIS BL 10.M In-Progress Review #3 Q3 FY25</p> <p>Development and review of specifications, Code development, Component level testing, Element verification, Early system level integration, weapon system and subsystem integration.</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
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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>Continue to support incremental design, development and integration of AEGIS code and integration for the following capabilities as part of BL 10.1/10.0.1: SPY-6(V)1 BMD 6.1 MK 6 Mod 1 Cross Domain Solution</p> <p>Continue to support incremental design, development and integration of AEGIS code and integration for the following capabilities as part of BL 10.M: SPY-6(V)4</p> <p>Conduct integration events, maintainability events, and stability events.</p> <p>Update training curriculum and documentation to reflect new capabilities.</p> <p>Provide system engineering efforts required to support the Integrated Product Teams. Program Management Team (PMT), System Engineering Cross Product Team (SECPT), Element, Safety, Configuration Management (CM), Test & Evaluation (T&E), Certification, and Subject Matter Experts (SME). Participate in and evaluate remaining AEGIS BL 10.1 design decisions, Engineering Technical Reviews (ETR), Specification Change, Review, Implementation, and baseline governance boards and Navy Review Team (NRT).</p> <p>Execution of all Test activities and stimulation capability required to validate system functionality, system interfaces, performance requirements, multi-unit interoperability and ensure system stability.</p> <p>Conduct Change Review Boards (CRB) to review computer program defects, characterize risk to system performance, and identify defect corrections.</p> <p>Conduct Combat System certification activities required to support planned FY24 Certification.</p> <p>Develop and maintain risk management activities required to identify, mitigate and resolve critical risk that would impact the fielding of BL 10.1 & BL 10.M.</p>					

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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>Continue to develop criteria metrics for technical and programmatic events in support of Mission Readiness Assessments (MRA), In Process Reviews (IPR), Program Reviews, and Test Readiness Reviews (TRR) as required to support the requirements of each milestone to ensure program success.</p> <p>Conduct Combat System Safety Program to address all Weapon System Explosive Safety Review Board (WSESRB) requirements.</p> <p>Provide programmatic and technical leadership in a collaborative Navy and industry environment. Continue to evaluate and monitor DDG 128 (10.1) and DDG 91 (10.M) schedules to ensure all required products are delivered to the ship to support continued shipboard testing as planned.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in FY25 funding due to completion of BL 10.0.</p>					
<p>Title: AEGIS DESTROYER BL 5 UPGRADES</p> <p align="right">Articles:</p> <p>Description: AEGIS BL 5.4.1 delivers NGSSR integration; Global Positioning System (GPS), Navigation, and Timing Service (GPNT)S; portions of Agile Sundog, Silent Squall, & Vortex; Command and Control Processor (C2P) tech refresh; and BMD 4.1.3 (MDA-developed). Required to support first install planned in FY25.</p> <p>FY 2024 Plans: AEGIS BL 5.4.1 In-Progress Review #1 Q1 FY24 AEGIS BL 5.4.1 In-Progress Review #2 Q3 FY24</p> <p>Continued AEGIS BL 5.4.1 code development, integration, and testing to support the planned updates to bring capability to 21 BL 5 DDGs.</p> <p>Provide system engineering efforts required to support the Integrated Product Teams. Program Management Team (PMT), System Engineering Cross Product Team (SECPT), Element, Safety, Configuration Management (CM), Test & Evaluation (T&E), Certification, and Subject Matter Experts (SME). Participate in and evaluate</p>	20.745	18.480	24.116	0.000	24.116
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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>remaining AEGIS BL 5.4.1 design decisions, Engineering Technical Reviews (ETR), Specification Change, Review, Implementation, and baseline governance boards and Navy Review Team (NRT).</p> <p>Execute all Test activities and stimulation capability required to validate system functionality, system interfaces, performance requirements, multi-unit interoperability and ensure system stability.</p> <p>Support Change Review Boards (CRB) to review computer program defects, characterize risk to system performance, and identify defect corrections.</p> <p>Conduct and maintain all risk management activities required to identify, mitigate and resolve critical risk that would impact the fielding of BL 5.4.1.</p> <p>Continue to develop briefs for technical and programmatic meetings in support of Mission Readiness Assessments (MRA), In Process Reviews (IPR), Program Reviews, and Test Readiness Reviews (TRR) as required to support the requirements of each milestone to ensure program success.</p> <p>Execute Combat System Safety Program to address all Weapon System Explosive Safety Review Board (WSESRB) requirements.</p> <p>Support BL 5.4.0 installation on 2 ships.</p> <p>FY 2025 Base Plans: AEGIS BL 5.4.1 In-Progress Review #3 Q1 FY25 AEGIS BL 5.4.1 Combat Systems Certification Panel (CSCP) Q3 FY25</p> <p>Integrate BMD capabilities as delivered by MDA.</p> <p>Continue to support the incremental design, development and integration of AEGIS BL 5.4.1, completing the Baseline Phase 4 Combat System Shipboard Testing, Final Certification and fielding. Continue to support incremental design, development and integration of the capabilities identified in the description above.</p>					

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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
Continue weapon system integration and combat system test events to include test planning, execution, and analysis. Continue executing integration events, maintainability events, and stability events. Finalize training curriculum and documentation updates to reflect new capabilities.					
Continue to test and make computer program updates to address various hardware configurations and Weapon System Elements.					
Provide system engineering efforts required to support the Integrated Product Teams. Program Management Team (PMT), System Engineering Cross Product Team (SECPT), Element, Safety, Configuration Management (CM), Test & Evaluation (T&E), Certification, and Subject Matter Experts (SME). Execute remaining AEGIS BL 5.4.1 design decisions, Engineering Technical Reviews (ETR), Specification Change, Review, Implementation, and baseline governance boards and Navy Review Team (NRT).					
Execute all Test activities and stimulation capability required to validate system functionality system interfaces, performance requirements, multi-unit interoperability and ensure system stability.					
Execute Change Review Boards (CRB) to review computer program defects, characterize risk to system performance, and identify defect corrections. Conduct Combat System certification activities required to support Q3 FY25 Certification.					
Conduct and maintain all risk management activities required to identify, mitigate and resolve critical risk that would impact the fielding of Baseline 5.4.1.					
Continue to develop criteria evaluation metrics for technical and programmatic events in support of Mission Readiness Assessments (MRA), In Process Reviews (IPR), Program Reviews, and Test Readiness Reviews (TRRs) as required to support the requirements of each milestone to ensure program success.					
Execute Combat System Safety Program to address all Weapon System Explosive Safety Review Board (WSESRB) requirements.					

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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>Provide programmatic and technical leadership in a collaborative Navy and industry environment. Identify, test and fix critical issues identified that impact the operational effectiveness of the AEGIS Combat System.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase in FY25 funding due to addition of 11 ships to fielding profile to new total of 21 and cost associated with Combat Systems Certification Panel (CSCP) planned for Q3 FY25.</p>					
<p>Title: COMBAT SYSTEMS TEST BED (CSTB)</p> <p align="right">Articles:</p> <p>Description: Combat Systems Test Bed (CSTB) is an AEGIS Modeling and Simulation (M&S) tool built to conduct high fidelity analysis for AEGIS Developmental Test (DT) and Operational Test (OT) that DOT&E highlighted in previous AEGIS baselines. CSTB models AEGIS Combat System (ACS) performance against adversary threats through the use of high-fidelity M&S, generating Objective Quality Evidence (OQE) that directly supports Director, Operational Test and Evaluation (DOT&E) evaluations of new AEGIS baselines. CSTB reduces Navy OT costs by enabling portions of AEGIS operational testing to be conducted via M&S increasing requirements coverage and avoiding the costs of targets and weapons that would ordinarily be required to conduct OT solely via live fire events. In letters dated August 9, 2013 and June 9, 2014, DOT&E has established the requirement that Navy use tactical code-based M&S (CSTB) in conjunction with live tests for AEGIS OT. IWS1 and Commander Operational Test and Evaluation Force (OPT) will continue to use CSTB for AEGIS Baseline 9 and Baseline 10 Critical Operational Issue evaluations in 2023 and beyond.</p> <p>CSTB has also been used extensively to develop pre-flight performance predictions and post-flight performance reconstructions for AEGIS Baseline live fire tests since January 2015. During this time, CSTB has established a track record of accurate predictions over 185,000 missile scenarios - identifying mission-critical software defects that led directly to \$584M in cost avoidance and precluded numerous flight test failures.</p> <p>In addition to its support for AEGIS BL9/10 OT and flight test predictions, CSTB is also critical to Frigate (FFG) Combat System and Integrated Combat System Development. CSTB end to end Hard Kill capabilities are available to SM-2 missile models to support BL9 testing. Delivery of Hardkill/Software (HK/SK) models are planned to provide additional functionality in support of BL9, BL10, and FFG Combat System testing requirements.</p>	16.366	23.937	23.527	0.000	23.527
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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><i>FY 2024 Plans:</i> Code Delivery #9 Q1 FY24 Code Delivery #10 Q2 FY24 BL10.0 OT Runs For Record Q2 FY24 Code Delivery #11 Q3 FY24</p> <p>Continued Federate development and integration of ESSM Block 2, SM-6 BI (AW), NULKA decoy, CIWS, Interactive Threat models, and BMD Debris models. Commence Federate development and integration SKCS/BAM, SM-3 Blk IB/IIA, SM-6 BIA (SBT), SLQ-32(V)6, and Lethality Models. (6 Additional efforts)</p> <p>Commence Verification and Validation (V&V) SM-6 BI (AW), SPY-6(V)1, SLQ-32(V)6, SM-3 BI/IIA, ESSM Block 2, SM-3 Blk IB/IIA, CIWS, NULKA decoy, Interactive Threat models, and AAW/BMD Debris model capabilities. (13 Additional efforts)</p> <p>Conduct Pre and Post-Live Fire Comparison analysis in support of DDG 125 DT/OT Runs for Record, FTX-23, and FTM-32.</p> <p>Conduct 4 Simulation Control Panel Readiness Reviews Boards and CSTB BL10.0 IOC M&S Runs for Record (Q3FY24).</p> <p>FFG-62 Support: Commence Federate development and integration of SPY-6(V)3 and SM-2 Blk IIIC models in support of FFG-62.</p> <p><i>FY 2025 Base Plans:</i> Code Delivery #12 Q1 FY25 BL10.0 BMD OT Runs For Record Q2 FY25 Code Delivery #13 Q2 FY25 BL10.0 AW OT Runs For Record Q3 FY25 Code Delivery #14 Q3 FY25</p> <p>Continued Federate development and integration SM-2 BIIC, SKCS/BAM, SM-3 Blk IB/IIA, SLQ-32(V)6, and Lethality Models.</p>					

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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
Continued Verification and Validation (V&V) SM-6 BI (AW), SPY-6(V)1, SLQ-32(V)6, SM-3 BI/IIA, ESSM Block 2, SM-3 Blk IB/IIA, CIWS, NULKA decoy, Interactive Threat models, and AAW/BMD Debris model capabilities. Conduct 3 Simulation Control Panel Readiness Reviews Boards and CSTB BL10.0 IT M&S Runs for Record. FFG-62 Support: Continued Federate development and integration of SPY-6(V)3, RAM, and SM-2 Blk IIIC models in support of FFG-62 (1 Additional effort). Commence Integrated Testing of BL10.X Federation to support ACB 20 Navy Capabilities Document (NCD) requirements. (1 Additional effort). FY 2025 OCO Plans: N/A FY 2024 to FY 2025 Increase/Decrease Statement: Decrease in FY25 due to rate and pricing adjustments.					
Title: TASK FORCE CYBER AWAKENING (TFCA) Description: Provides solutions to address AEGIS Cyber deficiencies and vulnerabilities. Solutions include the AEGIS Cyber security toolkit, file integrity checker, anti-malware, USB media detection, boundary proxy service, system incident and event manager, common user interface, network device integrity, identification management, certificate management, secure boot, application whitelisting, sandbox, cross domain and daily report capabilities. These solutions will be delivered as part of planned AEGIS BL 9 and 10 updates. FY 2024 Plans: In-Progress Review #16 2Q FY24 In-Progress Review #17 4Q FY24 Continue to implement the AEGIS Cyber Roadmap which will introduce enterprise grade cyber security protection to the AEGIS Weapon System. Prepare cyber solutions for transition into DevSecOps and evaluate	15.164	15.330	32.288	0.000	32.288
Articles:	-	-	-	-	-

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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>zero trust options. Support the evaluation of the DevOps software pipeline security from developer to ship to assess Cyber requirements coverage.</p> <p>FY 2025 Base Plans: In-Progress Review #18 2Q FY25 In-Progress Review #19 4Q FY25</p> <p>Continue to implement the AEGIS Cyber Roadmap which introduces enterprise grade cyber security protection to the AEGIS Weapon System. Support implementation and integration of Situational Awareness, Boundary Enforcement, & Response (SABER), which provides essential cybersecurity capabilities required to protect Navy Control Systems and support service cybersecurity objectives.</p> <p>Support integration, test and fielding of PUMP III Cross Domain Solution to enable secure communications across different security domains.</p> <p>Integrate updated cyber capabilities to comply with Cyber Security Technical Authority (CSTA) Standards, and close vulnerabilities identified during pen-test events.</p> <p>Utilize Model Based Systems Engineering (MBSE) to provide mission-based cyber risk assessments, Risk Management Framework (RMF) artifact generation, threat informed defense analysis, critical vulnerability identification, and continuous monitoring through NIST 800-53 security control automation.</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Increase is due to integration, testing and fielding of PUMP III Cross Domain Solution and SABER solution to continue to comply with Cyber Security Technical Authority (CSTA) Standards.</p>					
<p>Title: COLLABORATIVE IAMD PLANNING PROGRAM (CIPP)</p> <p align="right">Articles:</p> <p>Description: The Collaborative IAMD Planning Program will provide multi-ship, multi-baseline ballistic missile and air defense planning (BMD and AAW) in a common collaborative environment across ships, strike groups, and higher headquarters for IAMD that enables an exchange of plans and data. CIPP software will be integrated and fielded with Maritime Tactical Command and Control (MTC2) which provides asset scheduling/tasking/</p>	0.000 -	0.000 -	3.341 -	0.000 -	3.341 -

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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>data services, a common user interface, common map, and data replication/sharing. CIPP replaces Maritime IAMD Planning System (MIPS) which was removed from service in FY22. CIPP transitions ongoing discrete Battle Management Aids (BMAs) efforts into a Program of Record (PoR) thereby creating a comprehensive IAMD planning capability, initially consisting of SPY Slide Rule (SSR), Engageability Slide Rule (EnSR), Air Warfare Screen Planner (AWSP), NIFC Performance Assessment Tool (NPAT), Tactical Technologies Toolset (T3) Tactical Data Link (T3-TDL), T3 SPY Health and Status (T3-SPY), Linguistic Geometry Real-time Adversarial Intelligence and Decision-making (LG-RAID), and Cerberus. CIPP will integrate BMAs using modern DEVSECOPS techniques. Each successive build of CIPP will expand upon these capabilities and incorporate updated underlying models, leading to a future comprehensive end-to-end Terminal Defense (TD) planning for AEGIS and Integrated Combat System (ICS). CIPP will integrate into designated host environments, maintain cyber-security posture, conduct required testing, training and support.</p> <p>FY 2024 Plans: NA</p> <p>FY 2025 Base Plans: Acquisition Decision Memorandum 1Q FY25 Capability Needs Statement 1Q FY25 Software Acquisition Pathway Planning 2Q FY25</p> <p>Get approved Acquisition Decision Memorandum (ADM) and develop Draft Capability Needs Statement (CNS) to enter into Software Acquisition Pathway (SwAP) planning phase</p> <p>Develop required documentation for entry into SwAP Execution phase</p> <p>Establish and maintain CIPP PoR DEVSECOPS pipeline within the approved software armory</p> <p>Design and Development of CIPP BMA capabilities</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement:</p>					

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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
FY25 Increase due to implementation of Collaborative IAMD Planning Program (CIPP). CIPP is replacing the MIPS capability for IAMD tactical planning on AEGIS platforms.					
Title: AEGIS DEVELOPMENTAL TESTING / OPERATIONAL TESTING (DT/OT)					
Articles:					
	0.000	0.000	20.000	0.000	20.000
Description: The AEGIS Combat System (ACS) is made up of several elements including AEGIS Weapons System (AWS) Components, the SPY-1 or SPY-6 radars, Ship Electronic Warfare Improvement Program (SEWIP), Standard Missile (SM), Evolved Sea Sparrow Missile (ESSM) and CIWS. CP 2024 will be developed with five Capability Baselines (CB) that will require CS DT/OT testing prior to deployment. BL 10.1 consists of the ACS for DDG FL III ships, providing improved capability to the already established BL 10.0 and will require CS DT/OT testing prior to deployment. Test requirements will be documented in TEMP 1669.					
FY 2024 Plans: NA					
FY 2025 Base Plans: Conduct DT/OT Planning, Execution, Analysis, and Reporting (PEAR) for DT/OT of AWS BL 10.1 on new construction FLT III DDGs and CP-24 on modernized FLT IIA DDG. Coordinate with T&E stakeholders to include Operational Test and Evaluation Force (OPTEVFOR) and DOT&E to ensure alignment between T&E stakeholders to support conduct of DT/OT in accordance with DoD 5000.					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement: Increase is due to additional DT/OT requirements to validate Warfighting Capabilities implemented as part CP 2024 and BL 10.1. Supports Live Fire Test Events to validate Navy Capabilities Document (NCD) requirements. Costs associated with DT/OT for CP 2024 and BL 10.1 are found here and not duplicated within the CP 2024 and BL 10 program lines.					
Title: MK 6 MOD X COMPUTING INFRASTRUCTURE (CI)					
Articles:					
	30.900	51.437	0.000	0.000	0.000
Description: Development and deliver MK 6 MOD X Computing Infrastructure (CI) and Infrastructure as a Service Ordnance Alteration (ORDALT) kits to T116 MK6 MOD0 and T116 MK6 MOD 1 Ships. The MK 6 MOD X and T116 MK6 MOD0 and T116 MK6 MOD 1 IaaS ORDALT kits are foundational elements of the surface Navy's					

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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>efforts to achieve continuous capability delivery via a continuous Integration / Continuous Delivery (CI/CD) pipeline that supports all future ship classes. MK 6 MOD X replaces obsolete legacy Combat System hardware configurations enabling continuous hardware upgrades that deliver improved capability to the Fleet pier side (no hull cuts or dry docks required) resulting in faster delivery to more platforms. The IaaS ORDALT will be developed to support modification of in-service T116 MK 6 Mod 0 and Mod 1 hardware (Lead Ship DDG 81).</p> <p>FY 2024 Plans: MK 6 Mod X Level III TDP Q1 FY24 Complete MK 6 MOD X EQT Q1 FY24 MK 6 MOD 0 Hardware Delivery Q1 FY24 MK 6 MOD X In-Progress Review #5 Q2 FY24 MK 6 Mod 0 Combat System Certification Panel Q2 FY24 MK 6 Mod 1 Test and Certification Q1 FY24 - Q3 FY25 MK 6 MOD 1 Hardware Delivery Q3 FY24 MK 6 MOD X In-Progress Review #6 Q4 FY24</p> <p>Complete MK 6 MOD X EQT Q1 FY24 MK 6 MOD X Level III TDP Q1 FY24 (Post EQT) MK 6 MOD X In-Progress Review #5 / PI DEMO Q1 FY24 MK 6 MOD X In-Progress Review #6 / PI DEMO Q2 FY24 MK 6 MOD X In-Progress Review #7 / PI DEMO Q3 FY24 MK 6 MOD X In-Progress Review #8 / PI DEMO Q4 FY24 MK 6 MOD 0 Hardware Delivery Q1 FY24 MK 6 MOD 0 Combat System Certification Panel Q2 FY24 MK 6 MOD 1 Test and Certification Q1 FY24 - Q3 FY25 MK 6 MOD 1 Hardware Delivery Q3 FY24 MK 6 MOD 0 IaaS WSESRB Concurrence Q1 FY24 MK 6 MOD 0 IaaS ILS Certification Q2 FY24 MK 6 MOD 0 IaaS Cyber ATO Q2 FY24 MK 6 MOD 0 IaaS Combat System Certification Panel Q2 FY24 MK 6 MOD 0 IaaS OCB Q2 FY24 MK 6 MOD 1 IaaS Test and Certification Q1 FY24 - Q3 FY25 MK 6 MOD 1 IaaS field to first FFG platform Q4 FY24</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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</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>MK 6 MOD 1 IaaS field to first OPC platform Q4 FY24</p> <p>MK 6 MOD 0/1 IaaS In-Progress Review #12 Q1 FY24</p> <p>MK 6 MOD 0/1 IaaS In-Progress Review #13 Q2 FY24</p> <p>MK 6 MOD 0/1 IaaS In-Progress Review #14 Q3 FY24</p> <p>MK 6 MOD 0/1 IaaS In-Progress Review #15 Q4 FY24</p> <p>Continue to Improve IaaS design and further software defined network and software defined storage.</p> <p>Complete Environmental Qualification Testing for the MK 6 MOD X Computing Infrastructure, to include Non-Destructive, Destructive and Telecommunications Electronics Material Protected from Emanating Spurious Transmissions (TEMPEST) testing. Complete Development of MK 6 MOD X Level III TDP (post EQT) in support of FY 25 Ship Deliveries.</p> <p>Continue to address Diminishing Manufacture Sources (DMS) issues identified as part of MK 6 MOD X configurations.</p> <p>Establish Unclassified and Classified Labs for MK 6 MOD X development. Support the establishment of Land-Based Test Sites (LBTS) in support of Ship Software and Hardware deliveries.</p> <p>Continued to mature MK 6 MOD X MBSE. Finalize base MK 6 MOD X Cybersecurity posture and Authorization-to-Operate (ATO).</p> <p>Test and Certify virtualized AEGIS Weapon System with MK 6 MOD 0 ORDALT configuration. Continue to develop, test, and certify virtualized AEGIS Weapon System with MK 6 MOD 1 ORDALT configuration.</p> <p>FY 2025 Base Plans: Effort shifts from Project 1447 to Project 1111 within the same Project Element (PE).</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: Decrease due to effort shifting from Project 1447 to Project 1111 within the same Project Element (PE).</p>					
Title: SOFTWARE (SW) FACTORY	0.000	39.000	0.000	0.000	0.000

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Articles:	-	-	-	-	-
<p>Description: Surface Force Combat System SW Factory. Develop a continuous integration/continuous delivery (CI/CD) pipeline, where Combat System applications are developed, tested, certified, and fielded to the Fleet at speed. AEGIS and SSDS will be re-factored into a single ICS computer program by FY2028. Provides rapid CS development, test, certification, authorization, more frequent delivery, and faster turnaround of Fleet feedback into working SW and fielding to the Infrastructure-as-a-Service (IaaS) Fleet.</p> <p>FY 2024 Plans: iL6 Cloud Development Environment established Q1 FY24 CI/CD Continuous Authority To Operate (ATO) Q3 FY24 Program Increment Demo and Planning Q4 FY24 ICS Software release (as defined by capabilities in RDP) Q4 FY24 ICS Reference Architecture matured in alignment to ICS Refactoring Completion Q4 FY24</p> <p>Begin re-architecture of AEGIS and SSDS to ICS with the SW Factory using Agile development and management practices to include breaking down work into Program Increments. ICS re-architecture plan includes: -Development of ICS Reference Architecture by allocating current combat system functions to ICS sub-domains and components and defining ICS patterns and behaviors to align to Joint Common System Function List (JCSFL)s. -Prioritization of system threads and development of corresponding functional flows and MK 6 Mod X initial deliver (and core infrastructure functionality of ICS) Focus on force level architecture enablement.</p> <p>Execution of Code Convergence Plan aligned to Program Decision Memorandum (PDM) plan and prioritization of system threads. At a minimum FY24 development includes: -Platform as a Services (PaaS) -Core Services (NAV, system time) -Display Capabilities for Mod X Hardware -Tactical Situation (TACSIT) redesign -Common Track Management -Onboard training -Sensor enablement capabilities rearchitecture work</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
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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
Continued build development of the Forge Ecosystem to include development and testing pipeline buildout, CI/CD and Over-The-Air enablement. FY 2025 Base Plans: Effort shifts from LI 1447 to LI 1111 within the same Project Element (PE). FY 2025 OCO Plans: N/A FY 2024 to FY 2025 Increase/Decrease Statement: Decrease due to effort shifting from LI 1447 to LI 1111 within the same Project Element (PE).					
Accomplishments/Planned Programs Subtotals	318.739	445.124	432.811	0.000	432.811

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
• SCN 2122: <i>DDG 51</i>	7,870.766	4,709.131	6,684.428	-	6,684.428	5,234.448	5,362.172	6,434.911	5,507.180	14,079.680	158,384.774
• OPN 0900: <i>DDG Modernization</i>	741.354	628.532	861.066	-	861.066	860.988	930.378	946.139	965.049	11,632.088	22,260.273

Remarks

D. Acquisition Strategy

Combat system improvements are implemented in Capability Packages (CP) as described in the project mission statement. After the combat system is completed and tested, the computer program and associated equipment are delivered to the new construction shipbuilders and modernization shipyards where the computer program and equipment are installed and tested along with all other elements of the shipboard combat system and associated combat support systems. The computer program is a Government Furnished Computer Program (GFCP) deliverable Combat System deliveries that certify by 2024 will be provided using the Combat System Engineering Agent (CSEA) contract, with future Integrated Combat System (ICS) deliveries developed and certified under the pending competitively awarded Systems Engineering and Software Integration (SESI) contract. The latter will utilize the Surface Force Software Factory (SFSF) for software development within the US Navy Forge ecosystem. Additional modifications to the existing contracts will address war fighting improvements as directed by Office of the Chief of Naval Operations (OPNAV). Currently PEO IWS 1.0 and IWS X has existing contracts or pending contract actions supporting all efforts defined within the Budget Exhibit. A summary of contracts and contractual actions are captured below.

AEGIS executes Capability Package development in a 4 phased approach as outlined below.

- Phase 1 Combat System Requirements definition and Specification Development

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
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<p>- Phase 2 Code Development and Integration and supporting early Level 1-2 Testing requirements - Phase 3 Combat System and Weapon Element Integration and continuing Level 3-5 Testing - Phase 4 Combat System Shipboard Testing, Final Certification and fielding</p> <p>Active Major Contracts: N00024-13-C-5116: Competitive award to support AEGIS BL 9 2018 and follow on efforts - Period of Performance FY13-23 N00024-23-C-5123: AEGIS Fielding and Sustainment to complete development and certification of Baseline 10.0/10.1 and Capability Packages 22 and 24, and sustain/maintain in-service AEGIS BLs - Period of Performance FY23-29 N00024-13-C-5103: Sole source follow on to support New Jersey (NJ) Sites - Period of Performance FY18-23 N00024-14-C-5104: Sole source to support ship installation and test - Period of Performance FY14-23 N00024-15-C-5151: AEGIS ship integration and test - Period of Performance FY15-25 N00024-21-C-5100 Automated Test and Analysis (ATA) capability, FY21-26 N00024-21-F-5114: IT Ops, Cyber, and Classified Space - Period of Performance FY21-26 N00024-21-9-5150: Forge Classified Infrastructure - Period of Performance FY21-26 N00024-21-9-5151: Forge Software Factory Development Teams. Period of Performance FY21-24 N00024-21-9-5153: Forge Software Factory Development Teams. Period of Performance FY21-24 N00024-22-9-5154: Forge Software Factory Development Teams. Period of Performance FY22-24 N00024-22-F-5101: Black Pearl DevSecOps Pipeline. Period of Performance FY22-27 (Effort shifts from 1447 to 1111 in FY25).</p> <p>Contract Amendments: N00024-13-C-5116: Sole Source extension to FY26 for systems engineering, FFG-62 and USCG to support transition out of to the Competitive SESI (awarded Q4 FY23)</p> <p>New Contracts: SW Factory: N00024-23-C-5117: Surface Combatant System Engineering and Software Integration - Awarded SEPT 2023 Follow-on IT Ops, Cyber, and Classified Space - Planned Award Date APRIL 2024 (Effort shifts from 1447 to 1111 in FY25). Follow-on Forge Software Factory Development Teams. Planned Award Date MAY 2024 (Effort shifts from 1447 to 1111 in FY25).</p> <p>MK 6 MOD X: N00024-23-9-5204: Network, Processing, Storage (NPS) - Awarded AUG 2023 (Effort shifts from 1447 to 1111 in FY25). N00024-23-9-5238: Consoles - Awarded AUG 2023 (Effort shifts from 1447 to 1111 in FY25). Follow-on Large Screen Display (LSD), Thin Client Display (TCD), and Video Asset Management System - Planned Award Date MAR 2024 (Effort shifts from 1447 to 1111 in FY25). Follow-on Shipboard Secure Voice Communication System (SVCS) - Planned Award Date JUL 2024 (Effort shifts from 1447 to 1111 in FY25).</p> <p>In addition, PEO IWS 1.0 leverages contracts maintained by other organizations in support AEGIS Development. These include: MDA-LM BMD Contract (AEGIS BL 5 2020/2023 DEV)</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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>
NAVSEA - BAH, MANTECH, Strategic Insight, Tech Marine Business and Engility (PSS/ESS) JHU APL - Technical Direction Agent NSWC DD - Lead System Engineer NSWC PHD - Life cycle logistics support		

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>					Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>				

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
Systems Engineering	C/CPIF	Lockheed Martin : Moorestown, NJ	3,874.085	209.031	Oct 2022	253.333	Oct 2023	283.017	Oct 2024	-		283.017	Continuing	Continuing	Continuing
Systems Engineering	SS/CPFF	APL : Baltimore, MD	196.402	12.211	Oct 2022	17.301	Oct 2023	18.100	Oct 2024	-		18.100	Continuing	Continuing	Continuing
Systems Engineering	WR	NSWC : Dahlgren, VA	644.675	30.231	Oct 2022	40.024	Oct 2023	43.202	Oct 2024	-		43.202	Continuing	Continuing	Continuing
Systems Engineering	SS/CPAF	BAE Systems : Rockville, MD	92.182	7.382	Oct 2022	7.288	Oct 2023	6.900	Oct 2024	-		6.900	Continuing	Continuing	Continuing
Systems Engineering	C/CPIF	Raytheon : St. Petersburg, FL	16.042	5.430	Oct 2022	8.501	Oct 2023	2.400	Oct 2024	-		2.400	0.000	32.373	-
Systems Engineering	WR	NSWC : Port Hueneme, CA	117.229	12.322	Oct 2022	12.484	Oct 2023	18.655	Oct 2024	-		18.655	Continuing	Continuing	Continuing
Systems Engineering	WR	NWAS : Corona, CA	56.409	2.980	Oct 2022	2.960	Oct 2023	3.486	Oct 2024	-		3.486	Continuing	Continuing	Continuing
Systems Engineering	WR	SPAWAR : San Diego, CA	19.094	6.211	Oct 2022	6.220	Oct 2023	7.951	Oct 2024	-		7.951	Continuing	Continuing	Continuing
Systems Engineering	C/IDIQ	TBD : TBD	246.031	14.223	Oct 2022	16.332	Nov 2023	14.751	Oct 2024	-		14.751	Continuing	Continuing	Continuing
Award fees	WR	Various : Various	10.935	0.000	Oct 2022	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Systems Engineering	C/CPIF	Technology Service Corporation : Silver Spring , MD	6.647	9.122	Oct 2022	5.206	Nov 2023	1.300	Oct 2024	-		1.300	0.000	22.275	-
Systems Engineering	C/IDIQ	Various : Various	0.000	0.000	Oct 2022	62.250	Nov 2023	18.346	Oct 2024	-		18.346	0.000	80.596	-
Subtotal			5,279.731	309.143		431.899		418.108		-		418.108	Continuing	Continuing	N/A

Remarks
 Various Performing Activities consist of multiple performing activities with funding for each no greater than \$1 million per year. These larger performing activities include CDSA Dam Neck and NSWC/Crane.

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	Department of Interior : Boise, Idaho	49.392	1.342	Oct 2022	1.345	Oct 2023	0.709	Oct 2024	-		0.709	Continuing	Continuing	Continuing

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</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	NAVAIR : Pax River, MD	25.029	1.902	Oct 2022	1.940	Oct 2023	2.342	Oct 2024	-		2.342	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	Various	PMRF : Hawaii, HI	7.664	1.209	Oct 2022	1.198	Oct 2023	0.750	Oct 2024	-		0.750	0.000	10.821	-
Subtotal			82.085	4.453		4.483		3.801		-		3.801	Continuing	Continuing	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			
Program Management Support	SS/CPAF	Mantech : Washington DC	39.491	1.902	Oct 2022	3.105	Oct 2023	5.361	Oct 2024	-		5.361	Continuing	Continuing	Continuing
Program Management Support	SS/CPAF	TMB : Mclean, VA	37.906	3.241	Oct 2022	2.955	Oct 2023	2.998	Oct 2024	-		2.998	Continuing	Continuing	Continuing
Program Management Support	Various	Booz Allen Hamilton : Washington DC	1.807	0.000		2.682	Oct 2023	2.543	Oct 2024	-		2.543	0.000	7.032	-
Subtotal			79.204	5.143		8.742		10.902		-		10.902	Continuing	Continuing	N/A

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	5,441.020	318.739	445.124	432.811	-	432.811	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
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RD&E/N/BA-5	0604307N/SURFACE COMBATANT COMBAT SYSTEM ENGINEERING																1447/Surface Combatant Combat System Implementation											
Fiscal Year	2023				2024				2025				2026				2027				2028				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
CAPABILITY PACKAGE 2022																												
CAPABILITY PACKAGE 2022-1																												
CAPABILITY PACKAGE 2022-2 (DDG 91)																												

- **PB 2024 to PB 2025 Change Summary:**
- Updated CP 2022-1 CSCP to MAY 23
- Updated CP 2022-2 IPR dates
- Updated DDG 91 CSSQT Dates based on ship schedule
- Updated BL 9 CP 2022-2 Delivery

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
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RDT&E/BA-5	0604307N/SURFACE COMBATANT COMBAT SYSTEM ENGINEERING																1447/Surface Combatant Combat System Implementation													
Fiscal Year	2023				2024				2025				2026				2027				2028				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		
CAPABILITY PACKAGE 2024			IPR #1	IPR #2	IPR #3	IPR #4	IPR #5	IPR #6	IPR #7	CP 2024 CSCP																				
	Code Develop		System Test and Integration				Underway Testing																							

- PB 2024 to PB 2025 Change Summary:
- Updated IPR dates based on latest MPP; Added IPR # 4, 5, 6, and 7

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
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RDT&E/N/BA-5	0604307N/SURFACE COMBATANT COMBAT SYSTEM ENGINEERING												1447/Surface Combatant Combat System Implementation																			
Fiscal Year	2023				2024				2025				2026				2027				2028				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				
SEWIP BLK III INTEGRATION																																

- PB 2024 to PB 2025 Change Summary:
- No Change

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
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Fiscal Year	2023				2024				2025				2026				2027				2028				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
	CAPABILITY PACKAGE 2026										IPR #1	IPR #2	IPR #3				IPR #4				CP 2026 CSCP							
										Code Develop	System Test and Integration					Underway Testing												

- PB 2024 to PB 2025 Change Summary:
- No Effort

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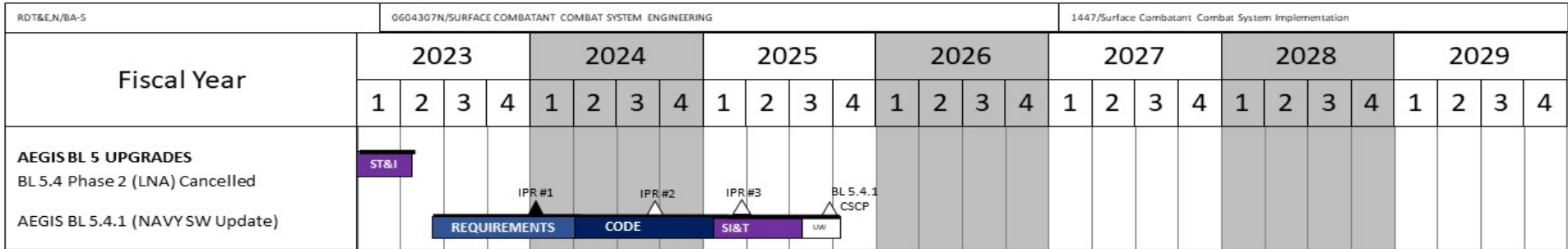
Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>

Fiscal Year	2023				2024				2025				2026				2027				2028				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
	AEGIS BL 10.0 (FLT III DESTROYER 2024)		IPR #8			IPR #9				BL 10.0 CSCP				BL 10.0.1 CSCP														
AEGIS BL 10.0.1/10.1 (FLT III DESTROYER 2026/2028)						IPR #10			IPR #11	IPR #12			BL 10.0.1 CSCP	IPR #13			IPR #14				IPR #15				BL 10.1 CSCP			
AEGIS BL 10M (FLT IIA DESTROYER 2028)							IPR #1		IPR #2	IPR #3				IPR #4			IPR #5				ALO				BL 10.M CSCP			

- **PB 2024 to PB 2025 Change Summary:**
- AEGIS BL 10.0 - Updated IPR#8 to MAR 23, removed EA #1, added IPR #9 (OCT 23)
- AEGIS BL 10.0 – Added BL 10.0.1 certification in JAN2026
- AEGIS BL 10.1 – Added IPR#12 AUG 25, IPR #13 MAY 26, IPR #14 FEB 27, IPR #15 NOV 27 and updated CSCP to Q4FY28
- AEGIS BL 10.M - Updated IPR#2 FEB 25, IPR #3 AUG 25, IPR #4 MAY 26, IPR #5 FEB 27, ALO Q1FY28, and CSCP Q4FY28

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
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- PB 2024 to PB 2025 Change Summary:
- IPR's shift based on Contract Award

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
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RDT&E/N/BA-5	0604307N/SURFACE COMBATANT COMBAT SYSTEM ENGINEERING																1447/Surface Combatant Combat System Implementation											
Fiscal Year	2023				2024				2025				2026				2027				2028				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
COMBAT SYSTEM TEST BED (CSTB)	CD #6	CD #7	CD #8	CD #9	CD #10	CD #11	CD #12	CD #13	CD #14	CD #15	CD #16	CD #17	CD #18	CD #19	CD #20	CD #21	CD #22	CD #23	CD #24	CD #25	CD #26	CD #27	CD #28	CD #29	CD #30	CD #31	CD #32	CD #33
	CP22-1 DT RFR #3	CP22-1 DT RFR			BL 10.0 OT IOCRFR Test Period 1A					BL 10.0 OT AW RFR #1 BL 10.0 OT BMD RFR #1 Test Period 1B			BL 10.0 OT BMD RFR #2 BL 10.0 OT AW RFR #2 Test Period 2A				BL 10.0 OT BMD RFR #3 BL 10.0 IAMD Dry-Runs Test Period 2B				BL 10.0 IAMD RFR #1 Test Period 3				BL 10.X FFG DT RFR #1			

- **PB 2024 to PB 2025 Change Summary:**
- CP22-1 DT RFR #3 was added based on IWS 1TE testing requirements.
- BL10.0 OT IOCRFR shifted to MAR24.
- BL10.0 AW/BMD RFR's into 5 separate Test Periods to support segmented execution of runs.
- BL10.0 Test Period 1B (FY25) added AW/BMD RFR #1 (Changed from OT BMD RFR).
- BL10.0 Test Period 2A (FY26) added AW/BMD RFR #2.
- BL10.0 Test Period 2B (FY27) added BMD RFR #3 and IAMD Dry-Runs (Changed from OT IAMD RFR).
- BL10.0 Test Period 3 (FY28) added for IAMD RFR #1.
- BL10.X FFG Test Period was added to FY29 with DT/OT RFR.

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>

RDT&E,N/BA-5	0604307N/SURFACE COMBATANT COMBAT SYSTEM ENGINEERING																1447/Surface Combatant Combat System Implementation															
Fiscal Year	2023				2024				2025				2026				2027				2028				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				
AEGIS CYBER AWAKENING TASK FORCE	IPR #14				IPR #15								IPR #18				IPR #19				IPR #20				IPR #21							

- **PB 2024 to PB 2025 Change Summary:**
- Added IPR #20 in 2nd QTR FY26
- Added IPR #21 in 4th QTR FY26

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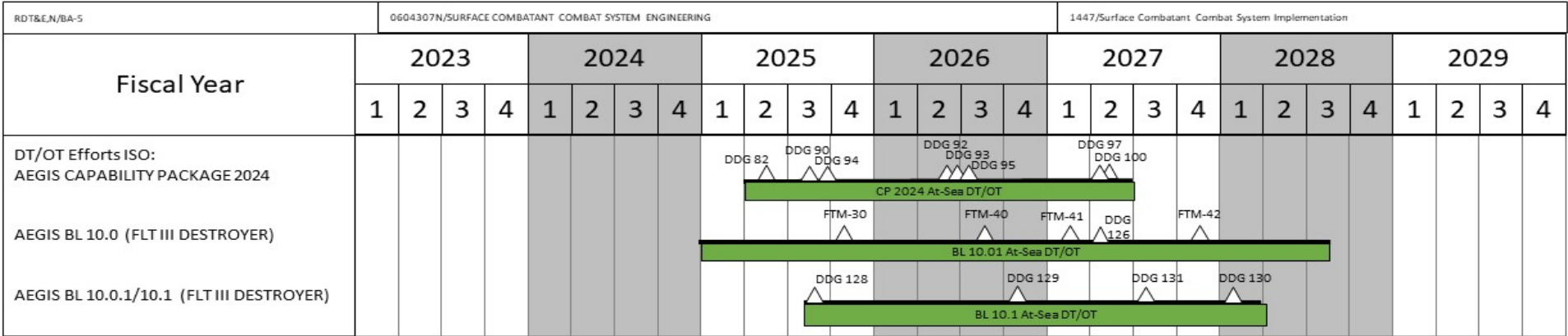
Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>

RDT&E/BA-5	0604307N/SURFACE COMBATANT COMBAT SYSTEM ENGINEERING																1447/Surface Combatant Combat System Implementation															
Fiscal Year	2023				2024				2025				2026				2027				2028				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				
CIPP Efforts									ADM	CNS			Enter SwAP				CIPP v1.0				CIPP v2.0				CIPP v3.0				CIPP v4.0			
									Enter SwAP	Planning Phase			Execution Phase				CIPP Continuous Int / Continuous Deployment															

- PB 2024 to PB 2025 Change Summary:
- New Effort Starting In FY25

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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 0604307N / <i>Surface Combatant Cmbt S</i> <i>ys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i> <i>ys Eng</i>



- PB 2024 to PB 2025 Change Summary:
- New Project effort in FY25

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>

Fiscal Year	2023				2024				2025				2026				2027				2028				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				
	RDT&E/BA-5 0604307N/SURFACE COMBATANT COMBAT SYSTEM ENGINEERING 1447/Surface Combatant Combat System Implementation																															
TI16 MK 6 MOD X Computing Infrastructure (CI) TI-16 Mod 0 IAAS Development and Delivery TI-16 MOD 1 IAAS Development and Delivery	IPR #3	IPR #4	Level III TDP	IPR #5	IPR #6	IPR #7	IPR #8	IPR #9	IPR #10	IPR #11	IPR #12	IPR #13	IPR #14	LBTS Activation	IPR #15	IPR #17	IPR #18	IPR #19	IPR #20	IPR #21	IPR #22	IPR #23	IPR #24	IPR #25	IPR #26	IPR #27	IPR #28	IPR #28				
	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT	EQT				

- **PB 2024 to PB 2025 Change Summary:**
- Effort shifts from Project Code 1447 to 1111 in FY25.
- Added additional IPR's

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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 0604307N / <i>Surface Combatant Cmbt S</i> <i>ys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i> <i>ys Eng</i>

RDT&E/BA-5	0604307N/SURFACE COMBATANT COMBAT SYSTEM ENGINEERING																1447/Surface Combatant Combat System Implementation													
Fiscal Year	2023				2024				2025				2026				2027				2028				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		
SW FACTORY					iL6 Cloud Env ▲▲▲				PI Event ▲	ICS Reference Architecture				PI Event ▲				PI Event ▲				PI Event ▲				PI Event ▲				
◇ SW Releases					Certificate for Continuous Development (CfCD)				Certificate to Ship (CtS)																					

- **PB 2024 to PB 2025 Change Summary:**
- Effort shifts from Project Code 1447 to 1111 in FY25.

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 1447				
CAPABILITY PACKAGE 2022: CP 2022-1 COMBAT SYSTEM CERTIFICATION PANEL (CB-1.4)	3	2023	3	2023
CAPABILITY PACKAGE 2022: CP 2022 IN-PROGRESS REVIEW (IPR) #2	3	2023	3	2023
CAPABILITY PACKAGE 2022: CP 2022 IN-PROGRESS REVIEW (IPR) #3	4	2023	4	2023
CAPABILITY PACKAGE 2022: CP 2022-2 COMPUTER PROGRAM DELIIVERY	1	2024	1	2024
CAPABILITY PACKAGE 2022: DDG 91 CSSQT	4	2024	4	2024
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #1	3	2023	3	2023
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #2	4	2023	4	2023
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #3	1	2024	1	2024
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #4	2	2024	2	2024
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #5	3	2024	3	2024
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #6	4	2024	4	2024
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #7	2	2025	2	2025
CAPABILITY PACKAGE 2024: CP 2024-1 COMBAT SYSTEM CERTIFICATION PANEL	3	2025	3	2025
SEWIP BLK III INTEGRATION: SEWIP BLK III IN-PROGRESS REVIEW #2	2	2023	2	2023
SEWIP BLK III INTEGRATION: SEWIP BLK III IN-PROGRESS REVIEW #3	4	2023	4	2023
SEWIP BLK III INTEGRATION: SEWIP TECH EVAL	2	2024	2	2024
SEWIP BLK III INTEGRATION: SEWIP IOT&E	2	2024	3	2024
CAPABILITY PACKAGE 2026: CP 2026 IN-PROGRESS REVIEW (IPR) #1	2	2025	2	2025
CAPABILITY PACKAGE 2026: CP 2026 IN-PROGRESS REVIEW (IPR) #2	3	2025	3	2025
CAPABILITY PACKAGE 2026: CP 2026 IN-PROGRESS REVIEW (IPR) #3	1	2026	1	2026

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
CAPABILITY PACKAGE 2026: CP 2026 IN-PROGRESS REVIEW (IPR) #4	4	2026	4	2026
CAPABILITY PACKAGE 2026: CP 2026-1 COMBAT SYSTEM CERTIFICATION PANEL	2	2027	2	2027
BL10.0: BL 10.0 IN-PROGRESS REVIEW (IPR) #8	2	2023	2	2023
BL10.0: BL 10.0 IN-PROGRESS REVIEW (IPR) #9	1	2024	1	2024
BL10.0: BL 10.0 COMBAT SYSTEM CERTIFICATION PANEL	4	2024	4	2024
BL10.0: BL 10.0 .1 COMBAT SYSTEM CERTIFICATION PANEL	2	2026	2	2026
BL10.0: BL10.1: BL 10.1 IN-PROGRESS REVIEW (IPR) #10	2	2024	2	2024
BL10.0: BL10.1: BL 10.1 IN-PROGRESS REVIEW (IPR) #11	1	2025	1	2025
BL10.0: BL10.1: BL 10.1 IN-PROGRESS REVIEW (IPR) #12	3	2025	3	2025
BL10.0: BL10.1: BL 10.0.1 COMBAT SYSTEM CERTIFICATION PANEL	2	2026	2	2026
BL10.0: BL10.1: BL 10.1 IN-PROGRESS REVIEW (IPR) #13	3	2026	3	2026
BL10.0: BL10.1: BL 10.1 IN-PROGRESS REVIEW (IPR) #14	2	2027	2	2027
BL10.0: BL10.1: BL 10.1 IN-PROGRESS REVIEW (IPR) #15	1	2028	1	2028
BL10.0: BL10.1: BL 10.1 COMBAT SYSTEM CERTIFICATION PANEL	4	2028	4	2028
BL10.0: BL 10.M: BL 10.M IN-PROGRESS REVIEW (IPR) #1	3	2024	3	2024
BL10.0: BL 10.M: BL 10.M IN-PROGRESS REVIEW (IPR) #2	1	2025	1	2025
BL10.0: BL 10.M: BL 10.M IN-PROGRESS REVIEW (IPR) #3	3	2025	3	2025
BL10.0: BL 10.M: BL 10.M IN-PROGRESS REVIEW (IPR) #4	3	2026	3	2026
BL10.0: BL 10.M: BL 10.M IN-PROGRESS REVIEW (IPR) #5	2	2027	2	2027
BL10.0: BL 10.M: BL 10.M AEGIS LIGHT OFF	1	2028	1	2028
BL10.0: BL 10.M: BL 10.M COMBAT SYSTEM CERTIFICATION PANEL	4	2028	4	2028
AEGIS DESTROYER BL 5 UPGRADES: AEGIS BL 5.4.1 IN-PROGRESS REVIEW (IPR) #1	4	2023	4	2023
AEGIS DESTROYER BL 5 UPGRADES: AEGIS BL 5.4.1 IN-PROGRESS REVIEW (IPR) #2	3	2024	3	2024

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
AEGIS DESTROYER BL 5 UPGRADES: AEGIS BL 5.4.1 IN-PROGRESS REVIEW (IPR) #3	1	2025	1	2025
AEGIS DESTROYER BL 5 UPGRADES: AEGIS BL 5.4.1 COMBAT SYSTEM CERTIFICATION PANEL	3	2025	3	2025
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #6	1	2023	1	2023
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #7	2	2023	2	2023
COMBAT SYSTEM TEST BED (CTSB): CSTB CP 22-1 DT RFR #3	2	2023	2	2023
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #8	3	2023	3	2023
COMBAT SYSTEM TEST BED (CTSB): CSTB CP 22-1 OT RFR	3	2023	3	2023
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #9	1	2024	1	2024
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #10	2	2024	2	2024
COMBAT SYSTEM TEST BED (CTSB): CSTB BL 10 OT IOC RFR	2	2024	2	2024
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #11	3	2024	3	2024
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #12	1	2025	1	2025
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #13	2	2025	2	2025
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #14	3	2025	3	2025
COMBAT SYSTEM TEST BED (CTSB): CSTB BL 10 OT AW RFR #1	4	2025	4	2025
COMBAT SYSTEM TEST BED (CTSB): CSTB BL 10 OT BMD RFR #1	4	2025	4	2025
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #15	1	2026	1	2026
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #16	2	2026	2	2026
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #17	3	2026	3	2026
COMBAT SYSTEM TEST BED (CTSB): CSTB BL 10 OT BMD RFR #2	4	2026	4	2026
COMBAT SYSTEM TEST BED (CTSB): CSTB BL 10 OT AW RFR #2	4	2026	4	2026
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #18	1	2027	1	2027
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #19	2	2027	2	2027
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #20	3	2027	3	2027

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
COMBAT SYSTEM TEST BED (CTSB): CSTB BL 10 OT BMD RFR #3	4	2027	4	2027
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #21	1	2028	1	2028
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #22	2	2028	2	2028
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #23	3	2028	3	2028
COMBAT SYSTEM TEST BED (CTSB): CSTB BL 10 IAMD RFR #1	4	2028	4	2028
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #24	1	2029	1	2029
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #25	2	2029	2	2029
COMBAT SYSTEM TEST BED (CTSB): CSTB BL 10 .X FFG DT RFR #1	3	2029	3	2029
COMBAT SYSTEM TEST BED (CTSB): CODE DELIVERY #26	3	2029	3	2029
TASK FORCE CYBER AWAKENING (TFCA): TFCA IN-PROGRESS REVIEW #14	2	2023	2	2023
TASK FORCE CYBER AWAKENING (TFCA): TFCA IN-PROGRESS REVIEW #15	4	2023	4	2023
TASK FORCE CYBER AWAKENING (TFCA): TFCA IN-PROGRESS REVIEW #16	2	2024	2	2024
TASK FORCE CYBER AWAKENING (TFCA): TFCA IN-PROGRESS REVIEW #17	4	2024	4	2024
TASK FORCE CYBER AWAKENING (TFCA): TFCA IN-PROGRESS REVIEW #18	2	2025	2	2025
TASK FORCE CYBER AWAKENING (TFCA): TFCA IN-PROGRESS REVIEW #19	4	2025	4	2025
TASK FORCE CYBER AWAKENING (TFCA): TFCA IN-PROGRESS REVIEW #20	2	2026	2	2026
TASK FORCE CYBER AWAKENING (TFCA): TFCA IN-PROGRESS REVIEW #21	4	2026	4	2026
TASK FORCE CYBER AWAKENING (TFCA): CIPP: ACQUISITION DEVELOPMENT MEMORANDUM (ADM)	1	2025	1	2025
TASK FORCE CYBER AWAKENING (TFCA): CIPP: CAPABILITY NEEDS STATEMENT (CNS)	3	2025	3	2025
TASK FORCE CYBER AWAKENING (TFCA): CIPP: ENTER SwAP PLANNING PHASE	2	2025	1	2026
TASK FORCE CYBER AWAKENING (TFCA): CIPP: CIPP v1.0	1	2026	1	2026
TASK FORCE CYBER AWAKENING (TFCA): CIPP: CIPP v2.0	1	2027	1	2027
TASK FORCE CYBER AWAKENING (TFCA): CIPP: CIPP v3.0	1	2028	1	2028

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
TASK FORCE CYBER AWAKENING (TFCA): CIPP: CIPP v4.0	1	2029	1	2029
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT CP 2024: CP 24 DDG 82 Test Event	2	2025	2	2025
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT CP 2024: CP 24 DDG 90 Test Event	3	2025	3	2025
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT CP 2024: CP 24 DDG 94 Test Event	3	2025	3	2025
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT CP 2024: CP 24 DDG 92 Test Event	2	2026	2	2026
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT CP 2024: CP 24 DDG 93 Test Event	2	2026	2	2026
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT CP 2024: CP 24 DDG 95 Test Event	2	2026	2	2026
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT CP 2024: CP 24 DDG 97 Test Event	2	2027	2	2027
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT CP 2024: CP 24 DDG 100 Test Event	2	2027	2	2027
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT BL 10.0.1: BL 10.0.1 FTM 30	4	2025	4	2025
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT BL 10.0.1: BL 10.0.1 FTM 40	3	2026	3	2026
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT BL 10.0.1: BL 10.0.1 FTM 41	1	2027	1	2027
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT BL 10.0.1: BL 10.0.1 DDG 126 Test Event	2	2027	2	2027
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT BL 10.0.1: BL 10.0.1 FTM 42	4	2027	4	2027
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT BL 10.1: BL 10.1 DDG 128 Test Event	2	2025	2	2025

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 1447 / <i>Surf Combatant Combat System Imp</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT BL 10.1: BL 10.1 DDG 129 Test Event	4	2026	4	2026
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT BL 10.1: BL 10.1 DDG 131 Test Event	3	2027	3	2027
TASK FORCE CYBER AWAKENING (TFCA): AEGIS DT/OT BL 10.1: BL 10.1 DDG 130 Test Event	1	2028	1	2028
MK 6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW #3	1	2023	1	2023
MK 6 MOD X COMPUTING INFRASTRUCTURE: EQUIPMENT QUALIFICATION TEST #1	2	2023	3	2024
MK 6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW #4	3	2023	3	2023
MK 6 MOD X COMPUTING INFRASTRUCTURE: LEVEL III TECHNICAL DATA PACKAGE	4	2023	4	2023
MK 6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW #5	1	2024	1	2024
MK 6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW #6	2	2024	2	2024
MK 6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW #7	3	2024	3	2024
MK 6 MOD X COMPUTING INFRASTRUCTURE: IN-PROGRESS REVIEW #8	4	2024	4	2024
MK 6 MOD 0 IaaS: HARDWARE DELIVERY	4	2023	4	2023
MK 6 MOD 0 IaaS: COMBAT SYSTEM CERTIFICATION PANEL	2	2024	2	2024
MK 6 MOD 1 IaaS: HARDWARE DELIVERY	2	2024	2	2024
SOFTWARE FACTORY: I6 CLOUD ENVIRONMENT ESTABLISHMENT	1	2024	1	2024
SOFTWARE FACTORY: CERTIFICATION FOR CONTINUOUS DEVELOPMENT	1	2024	1	2024
SOFTWARE FACTORY: CERTIFICATE TO SHIP	2	2024	2	2024
SOFTWARE FACTORY: PI EVENT	4	2024	4	2024
SOFTWARE FACTORY: ICS SOFTWARE RELEASED 2024	4	2024	4	2024
SOFTWARE FACTORY: ICS REFERENCE ARCHITECTURE	4	2024	4	2024

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>				Project (Number/Name) 3357 / <i>Aegis Training Improvement 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
3357: <i>Aegis Training Improvement Program</i>	77.117	6.317	8.187	10.262	-	10.262	10.050	7.613	7.156	7.293	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The AEGIS Training Improvement project provides enhancements and upgrades to the Total Ship Training Capability (TSTC) training components within the combat system to address needs for increased training capability and functionality in conjunction with AEGIS Capability Packages. These enhancements will address current and future training requirements by implementing new functionality to enable the individual warfighter through distributed battle group events to engage in more complex training requirements to support fleet required training certification events. Capability Development and integration are related to Integrated Air and Missile Defense, Underwater, Surface, and other warfare areas. Capability enhancements and upgrades include development of re-useable common components that can be leveraged by SSDS MK2 combat systems, and/or integration of re-usable common components developed by the TSTC Battle Force Tactical Trainer (BFTT) Program and Ship Self Defense System (SSDS) MK2 TSTC Training Improvement programs to meet AEGIS combat system training requirements. TSTC provides realistic joint warfare training across the spectrum of armed conflict, realistic unit level team training in all warfare areas (e.g. Naval Integrated Fire Control-Counter Air (NIFC-CA) and BMD missions to support IAMD). TSTC provides ships' Commanding Officers and Battle Group/Battle Force Commanders with the ability to conduct coordinated realistic, high stress, combat system level team training as an integral part of the Afloat Training Organization, the Tactical Training Groups and C2F/C3F Fleet Synthetic Trainers (FSTs). TSTC continues to integrate and update, as new tactical capabilities are being introduced, to enable crew operator proficiency training for basic and sustainment level training events, through distributed strike group certification fleet synthetic training (FST) events and including Composite Training Unit Exercise (COMPTUEX) Fleet Synthetic Training (FST) at Sea integration into Live, Virtual and Constructive (LVC) environment. Continued Development is required to integrate new capabilities and interfaces to provide training for AEGIS and SSDS combat system capability upgrades, and to address the Fleet's Live, Virtual and Constructive (LVC) Fleet Training Wholeness initiative. Additionally, modernization is needed to support the DoD Training Transformation Plan, the Chief of Naval Operations Fleet Response Plan and Commander United States Fleet Forces Command Fleet Readiness Training Plan.

The Advanced Training Domain (ATD) is being developed to combine BFTT and the AEGIS Combat Training System (ACTS) into a common system that integrates with AEGIS BL 9.2.2AF, and SSDS BL 11.xAF. ATD is being hosted along with the AEGIS and SSDS combat system on TI-16AF common processing and display hardware. ATD is being designed to be the core of the Total Ship Training Capability, and is projected to be more reliable, simpler to use, and architecturally extensible to meet interoperability and capability enhancement challenges in the future.

The BFTT is being updated to maintain integration and capability enhancements developed for the Cooperative Engagement Capability (CEC), Surface Electronic Warfare Improvement Program (SEWIP), and the Carrier Tactical Support Center (CV-TSC), and SSDS Fire Control Loop Improvement Program.

TSTC integrates ATD or BFTT with combat systems elements such as such as AWS, SQQ-89, Vehicle Control Domain via MH-60R Sim, Surface and Air Search Radars, Electronic Warfare Systems (BEWT/SEWTT), Identification Friend or Foe (IFF), CEC & Data Link Systems, and Missile/Weapon Systems to provide a multi-warfare integrated training capability used for training and certification of crews and strike groups.

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 3357 / <i>Aegis Training Improvement Program</i>

Integrate Navy Continuous Training Environment (NCTE) networking and cyber security upgrades to maintain authorization to participate in distributed shipboard training events.

Design, develop, and test of Advanced Training Domain (ATD) (formerly Internal Training Domain (ITD)) modifications aligned to the ICS architecture to deliver LVC training in-stride with Combat System deliveries from the SW Factory.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: AEGIS Training Improvement and Integration	5.417	7.217	7.728	0.000	7.728
Articles:	-	-	-	-	-
Description: AEGIS Total Ship Training Capability (TSTC) provides enhancements to training components and increase training functionality in conjunction with AEGIS development and integration. These enhancements will address current and future training requirements and implement new functionality to support more complex training requirements related to Underwater, Surface and other warfighter upgrades.					
FY 2024 Plans:					
- Continue development, integration and testing of ATD on Aegis with new capabilities being implemented into CP 24-1/BL 10.X and enable leveraging for Ship Self Defense System (SSDS) BL 12.X.					
- Design, develop, and test of Advanced Training Domain (ATD) (formerly Internal Training Domain (ITD)) modifications aligned to the ICS architecture to deliver LVC training in-stride with Combat System deliveries from the SW Factory.					
FY 2025 Base Plans:					
- Continue development, integration and testing of ATD on AEGIS with new capabilities being implemented into CP 24-1/BL 10.X and enable leveraging for Ship Self Defense System (SSDS) BL 12.X including Cooperative Engagement Capability (CEC).					
- Continue to design, develop, and test of Advanced Training Domain (ATD) modifications aligned to the Infrastructure as a Service (IaaS) and ICS to deliver LVC training with Combat System Simulation/Stimulation (CS3) in-stride with Combat System deliveries from the SW Factory.					
FY 2025 OCO Plans:					
N/A					
FY 2024 to FY 2025 Increase/Decrease Statement:					
Increase of \$1.173M from FY24 to FY25 is for ramp up of efforts for TSTC to integrate Synthetic Training Advanced Virtual Environment (STAVE) fidelity capabilities into the Total Ship Training Capability (TSTC)					

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 3357 / <i>Aegis Training Improvement 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
Advanced Training Domain (ATD)/LVC Training Capability as part of the shipboard IaaS computing, networking and displays to enhance realistic training within a contested environment. Develop and integrate ATD, CS3, and mission area LVC capabilities into ICS infrastructure.					
Title: Fleet Training Wholeness	0.900	0.970	2.534	0.000	2.534
Articles:	-	-	-	-	-
FY 2024 Plans: - Continue development of Advanced Training Domain (ATD) for Aegis BL 9 and 10 variants.					
FY 2025 Base Plans: - Continue development of Advanced Training Domain (ATD) for Aegis BL 9 and 10 variants. - Update embedded training systems to support Surface LVC engagement capability during Fleet training events.					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement: Increase of 1.564M from FY24 to FY25 to develop and integrate LVC capabilities, required for crew and strike group training deployment certifications.					
Accomplishments/Planned Programs Subtotals	6.317	8.187	10.262	0.000	10.262

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>
• RDTEN/0204571N/1427: <i>Surface Tactical Team Trainer (STTT)</i>	13.532	33.057	71.805	-	71.805	44.782	25.577	23.830	24.292	Continuing	Continuing

Remarks

D. Acquisition Strategy
Efforts will be completed on various contracts to support requirements updates to multiple products that will support Training Integration and Implementation within AEGIS development capabilities.

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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 0604307N / Surface Combatant Cmbt Sys Eng	Project (Number/Name) 3357 / Aegis Training Improvement 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			
Product Development	Various	Various : Various	43.053	3.970	Dec 2022	5.151	Dec 2023	6.337	Dec 2024	-		6.337	Continuing	Continuing	Continuing
System Engineering	Various	Various : Various	28.611	1.692	Dec 2022	2.231	Dec 2023	3.111	Dec 2024	-		3.111	Continuing	Continuing	Continuing
Subtotal			71.664	5.662		7.382		9.448		-		9.448	Continuing	Continuing	N/A

Remarks
System Engineering moved from Support to Product Development

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			
Engineering Support	C/CPIF	BAH/NRL : Arlington, VA/Maryland	4.388	0.555	Dec 2022	0.692	Dec 2023	0.699	Dec 2024	-		0.699	Continuing	Continuing	Continuing
Professional Support	C/CPIF	TMB : Washington DC	1.065	0.100	Dec 2022	0.113	Dec 2023	0.115	Dec 2024	-		0.115	Continuing	Continuing	Continuing
Subtotal			5.453	0.655		0.805		0.814		-		0.814	Continuing	Continuing	N/A

Project Cost Totals	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
	77.117	6.317	8.187	10.262	-	10.262	Continuing	Continuing	N/A

Remarks

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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 0604307N / Surface Combatant Cmbt Sys Eng	Project (Number/Name) 3357 / Aegis Training Improvement Program
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Proj 3357	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
CAPABILITY PACKAGE 2022			▲	▲			▲																					
CAPABILITY PACKAGE 2024			▲	▲	▲	▲	▲	▲		▲	▲																	
CAPABILITY PACKAGE 2026										▲	▲			▲				▲										
BL10.0	▲							▲																				
BL10.1						▲				▲	▲			▲				▲				▲						
BL10.M							▲			▲	▲							▲	▲			▲						

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 3357 / <i>Aegis Training Improvement Program</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3357				
CAPABILITY PACKAGE 2022: CP 2022-1 COMBAT SYSTEM CERTIFICATION PANEL (CB-1.4)/CP 2022 IN-PROGRESS REVIEW (IPR) #3	3	2023	3	2023
CAPABILITY PACKAGE 2022: CP 2022 IN-PROGRESS REVIEW (IPR) #4	4	2023	4	2023
CAPABILITY PACKAGE 2022: CP 2022-2 COMPUTER PROGRAM DELIIVERY	3	2024	3	2024
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #1	3	2023	3	2023
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #2	4	2023	4	2023
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #3	1	2024	1	2024
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #4	2	2024	2	2024
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #5	3	2024	3	2024
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #6	4	2024	4	2024
CAPABILITY PACKAGE 2024: CP 2024 IN-PROGRESS REVIEW (IPR) #7	2	2025	2	2025
CAPABILITY PACKAGE 2024: CP 2024-1 COMBAT SYSTEM CERTIFICATION PANEL	3	2025	3	2025
CAPABILITY PACKAGE 2026: CP 2026 IN-PROGRESS REVIEW (IPR) #1	2	2025	2	2025
CAPABILITY PACKAGE 2026: CP 2026 IN-PROGRESS REVIEW (IPR) #2	3	2025	3	2025
CAPABILITY PACKAGE 2026: CP 2026 IN-PROGRESS REVIEW (IPR) #3	1	2026	1	2026
CAPABILITY PACKAGE 2026: CP 2026 IN-PROGRESS REVIEW (IPR) #4	4	2026	4	2026
CAPABILITY PACKAGE 2026: CP 2026-1 COMBAT SYSTEM CERTIFICATION PANEL	2	2027	2	2027
BL10.0: BL 10.0 IN-PROGRESS REVIEW (IPR) #9	1	2023	1	2023
BL10.0: BL 10.0 COMBAT SYSTEM CERTIFICATION PANEL	4	2024	4	2024
BL10.1: BL 10.1 IN-PROGRESS REVIEW (IPR) #10	2	2024	2	2024

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 3357 / <i>Aegis Training Improvement Program</i>

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
BL10.1: BL 10.1 IN-PROGRESS REVIEW (IPR) #11	1	2025	1	2025
BL10.1: BL 10.1 IN-PROGRESS REVIEW (IPR) #12	3	2025	3	2025
BL10.1: BL 10.1 IN-PROGRESS REVIEW (IPR) #13	3	2026	3	2026
BL10.1: BL 10.1 IN-PROGRESS REVIEW (IPR) #14	2	2027	2	2027
BL10.1: BL 10.1 IN-PROGRESS REVIEW (IPR) #15	1	2028	1	2028
BL10.1: BL 10.1 COMBAT SYSTEM CERTIFICATION PANEL	4	2028	4	2028
BL10.M: BL 10.M IN-PROGRESS REVIEW (IPR) #1	3	2024	3	2024
BL10.M: BL 10.M IN-PROGRESS REVIEW (IPR) #2	1	2025	1	2025
BL10.M: BL 10.M IN-PROGRESS REVIEW (IPR) #3	3	2025	3	2025
BL10.M: BL 10.M IN-PROGRESS REVIEW (IPR) #4	3	2027	3	2027
BL10.M: BL 10.M IN-PROGRESS REVIEW (IPR) #5	2	2027	2	2027
BL10.M: BL 10.M AEGIS LIGHT OFF	1	2028	1	2028
BL10.M: BL 10.M COMBAT SYSTEM CERTIFICATION PANEL	4	2028	4	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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 9999 / <i>Congressional Adds</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
9999: <i>Congressional Adds</i>	0.000	9.646	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	9.646
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Integration and delivery of a best-of-breed capability to enable Condition Based Maintenance Plus (CBM+) and optimized mission planning will provide real-time predictive analyses of a weapon system's ability to meet Key Performance Parameters (KPPs), Key System Attributes (KSAs), and Technical Performance Measures (TPMs), for optimized combat systems corrective maintenance tactical decision making.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2023	FY 2024
<i>Congressional Add:</i> Enabling Condition-Based Maintenance Plus (CBM+)	9.646	0.000
<i>FY 2023 Accomplishments:</i> Provide real-time shipboard readiness and mission-based analytics capability to compete and win in a high-end fight.		
<i>FY 2024 Plans:</i> N/A		
Congressional Adds Subtotals	9.646	0.000

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

N/A

Remarks

D. Acquisition Strategy

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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 9999 / <i>Congressional Adds</i>
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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 9999	
Model Based System Engineering Delivery	■

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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 0604307N / <i>Surface Combatant Cmbt Sys Eng</i>	Project (Number/Name) 9999 / <i>Congressional Adds</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 9999				
Model Based System Engineering Delivery	4	2023	4	2023