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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 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0603599N / <i>FRIGATE Development</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	594.381	106.239	112.972	107.658	-	107.658	107.901	107.186	104.075	102.702	Continuing	Continuing
3086: <i>Frigate</i>	594.381	106.239	112.972	107.658	-	107.658	107.901	107.186	104.075	102.702	Continuing	Continuing

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): P606

A. Mission Description and Budget Item Justification

The Constellation class frigate (FFG 62) is a more lethal and survivable multi-mission small surface combatant. With FFG 62, the Navy will maximize the small surface combatant capabilities in the Anti-Surface Warfare (SUW), Anti-Submarine Warfare (ASW), Electronic Warfare/Information Operations (EW/IO), Air Warfare (AW) mission areas, and survivability while keeping the ship an affordable component of the "high-low" mix of surface ships. The FFG(X) Capability Development Document (CDD) was approved by the Joint Requirement Oversight Council (JROC) in Feb 2019 and completed Milestone B, an informed Independent Cost Estimate, and award of the Detail Design & Construction (DD&C) contract in April 2020.

FY25 funds continue development of the Variable Depth Sonar (VDS) capability via the Combined Active Passive Towed Array Sonar (CAPTAS) and continue Combat System and Over-the-Horizon (OTH) development and AEGIS Weapon System (AWS) integration, Live Fire Test & Evaluation (LFT&E) and Developmental Testing (DT) support as well as Cyber security implementation and Land Based Engineering Site (LBES) construction.

FY24 funds will develop Variable Depth Sonar (VDS) capability via the Combined Active Passive Towed Array Sonar (CAPTAS) and continue Combat System and Over-the-Horizon (OTH) development and AEGIS Weapon System (AWS) integration, test and evaluation efforts including Live Fire Test & Evaluation (LFT&E) and Developmental Testing (DT) support as well as Cyber security implementation and LBES construction.

FY23 funds continue to mature Combat System and C4I elements into an integrated baseline to support ship construction; assess platform risk via Early Integration Testing events; continue development, coding, test, and assessment of the FFG AWS; test and evaluation activities relevant to ship survivability; and mature the LBES test program.

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Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0603599N / <i>FRIGATE Development</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	108.626	112.972	112.914	-	112.914
Current President's Budget	106.239	112.972	107.658	-	107.658
Total Adjustments	-2.387	0.000	-5.256	-	-5.256
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.387	0.000			
• Program Adjustments	0.000	0.000	-4.938	-	-4.938
• Rate/Misc Adjustments	0.000	0.000	-0.318	-	-0.318

Change Summary Explanation

FY24 to FY25 net decrease of \$5.256M is due to programmatic adjustments (\$4.938M) and miscellaneous rate adjustments (\$.318M).

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Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0603599N / <i>FRIGATE Development</i>				Project (Number/Name) 3086 / <i>Frigate</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
3086: <i>Frigate</i>	594.381	106.239	112.972	107.658	-	107.658	107.901	107.186	104.075	102.702	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: P606

A. Mission Description and Budget Item Justification

Frigate (FFG 62 Class) efforts are composed of the design and development for a more lethal and survivable multi-mission warship focused on Anti-Surface Warfare (SUW) and Anti-Submarine Warfare capabilities (ASW), local air defense and enhanced survivability features. FFG 62 Class design modifications for added capability over the Littoral Combat Ship (LCS) include an Over-the-Horizon (OTH) surface-to-surface missile system, upgraded air defense weapons and sensors, advanced electronic warfare system and improved decoys, local air defense, and enhanced survivability features. This effort will encompass design, development, and technical issue resolution to support design maturity for DD&C FY 2020 contract award. Certification and testing efforts are also required to support the FFG 62 Class delivery, operations, and introduction to the fleet.

The FFG 62 Class design and development phases include platform design, development and risk reduction; combat system element integration; total ship system engineering and integration; combat systems and warfare systems certification; and planning and conduct of system testing. These efforts include procurement of combat and warfare system equipment and/or simulators to support production representative testing in support of design, development, and certification efforts and ordnance in support of testing.

This funding will also include efforts and activities required for formal Developmental and Operational testing of the FFG 62 program. Test and Evaluation (T&E) will concentrate on verifying integration and interoperability of employed technologies and systems in the FFG 62 design to achieve the mission capabilities and performance requirements as defined in the FFG 62 Class Capability Development Document (CDD). Funding will also be for the execution of LFT&E DT, C4I integration & test, cyber test and certification, warfare system integration & test and certification, aviation (manned and unmanned) integration & test and certification. T&E functions will include the evaluation of Critical Technical Parameters (CTP), Measures of Effectiveness (MOE), Measures of Suitability (MOS), and Key Performance Parameters (KPP).

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Test & Evaluation	29.777	33.764	33.749	0.000	33.749
Articles:	-	-	-	-	-
Description: Conduct FFG test planning in support of Developmental Testing (DT) and Operational Testing (OT). Plan for and begin testing in support of Live Fire Test and Evaluation (LFT&E) modeling and small-scale empirical testing to support initiation of efforts to model FFG survivability. Plan for and begin aligning resources to conduct future Early Integration Tests and Cybersecurity Tests as risk reductions for ship construction industrial stage testing. Refine testing schedules and testing resource requirements timelines to support later integration and certification testing. Complete high-level plans such as Test and Evaluation Master Plan (TEMP) and LFT&E Management Plan and begin review and refinement of more detailed test plans and procedures.					

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Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603599N / <i>FRIGATE Development</i>	Project (Number/Name) 3086 / <i>Frigate</i>

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

Plan for and execute DT, C4I integration & test, cyber test and certification, warfare system integration & test and certification, aviation (manned and unmanned) integration & test and certification.

FY 2024 Plans:

FY 2024 Plans:

Execute additional live-fire tests in support of generating empirical LFT&E survivability data to continue the verification, validation, and accreditation of multiple LFT&E survivability models. FY24 will include developing the LFT&E Detailed Survivability Assessment Ship Models, accrediting those models, and developing Detailed Design Survivability Report (DDSAR) and Modeling and Simulation (M&S) plans. The program will also be executing detailed test and M&S planning and material procurement for LFT&E Phase 2 testing efforts. LFT&E Phase 1 and LFT&E Phase 2 timelines on R-4 indicate actual LFT&E Phase 1 and Phase 2 test execution, and do not include test planning, material procurement, and test fixture design and fabrication efforts that occur between these events. Conduct and complete networked, multi-site land based Early Integration Testing events to include post-analysis and correction. Mature Test Procedures submitted for Government Furnished Equipment (GFE) to confirm suitability for shipyard stage testing. Align historical test results for use as FFG DT and OT data to reduce future at-sea testing requirements. Review and incorporate integrated Warfare System baseline test requirements to inform Combat System Test Bed (CSTB) development, verification, validation, and initial test runs. Utilize Early Operational Assessment (EOA) results for iterative assessment of the following: draft CONOPS, preliminary ship design documentation, planned mission critical systems hardware and software versions and how they are to be integrated into the ship design, and manning and training plans. Develop FFG LBES test indices and sequences to support future component, system, and plant light-offs. Provide integral engineering support of FFG LBES in parallel of ship construction findings and vendor guidance.

OCO:

FY 2024 OCO Plans:

N/A

FY 2025 Base Plans:

FY 2025 Plans:

Execute additional live-fire tests in support of generating empirical LFT&E survivability data to continue the verification, validation, and accreditation of multiple LFT&E survivability models. Conduct and complete networked, multi-site land based Early Integration Testing events to include post-analysis and correction. Mature Test Procedures submitted for Government Furnished Equipment (GFE) to confirm suitability for shipyard stage testing. Align historical test results for use as FFG DT and OT data to reduce future at-sea testing requirements.

FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total

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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>Review and incorporate integrated Warfare System baseline test requirements to inform Combat System Test Bed (CSTB) development, verification, validation, and initial test runs. Utilize Early Operational Assessment (EOA) results for iterative assessment of the following: draft CONOPS, preliminary ship design documentation, planned mission critical systems hardware and software versions and how they are to be integrated into the ship design, and manning and training plans. Develop FFG LBES test indices and sequences to support future component, system, and plant light-offs. Provide integral engineering support of FFG LBES in parallel of ship construction findings and vendor guidance.</p> <p>OCO: FY 2025 OCO Plans: N/A</p> <p>FY 2025 OCO Plans: N/A</p> <p>FY 2024 to FY 2025 Increase/Decrease Statement: No significant changes from FY 2024 to FY 2025.</p>					
<p>Title: Ship Systems / C4I / Warfare Systems Engineering</p> <p align="right">Articles:</p> <p>Description: The Frigate (FFG 62 Class) is a multi-mission ship that focuses on Anti-Surface Warfare (SUW), Anti-Submarine Warfare (ASW) capabilities and local air defense. Specific capabilities include Over-the-Horizon (OTH), upgraded Air Defense weapons and sensors, advanced electronic warfare system and improved decoys, towed array, torpedo defense, and enhanced survivability features.</p> <p>FY 2024 Plans: FY 2024 Base Plans: C4I / Warfare Systems Engineering Integrate the Variable Depth Sonar (VDS) capability onboard Frigates ships through the development and integration of the Combined Active Passive Towed Array Sonar (CAPTAS). Continue system engineering and platform integration efforts for C4I, Combat, and Aviation systems. Continue AWS development efforts to ensure platform combat capability, including the integration of AN/SPY-6(V)3 radar and Rolling Airframe Missile (RAM) system into the Combat System. Continue Over-the-Horizon (OTH) development and integration efforts of SQQ-89 with Frigate ASW sensor suite. Continue integration of AN/SPY-6(V)3 radar to meet Frigate requirements. The program will mature the integrated Warfare System baseline in support of integration and test</p>	76.462	79.208	73.909	0.000	73.909
	-	-	-	-	-

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

activities through the CSTB, to determine platform performance against a wide variety of threats in each mission area. Implement additional cyber security/information assurance (IA) measures on the warfare system and C4I suite to pace the current and future threats. Continue product development and planning for warfare system, C4I, and HM&E. Continue to optimize combat system capabilities for the design of hull. Continue modeling and simulation via Frigate Readiness Assessment Model for sustainment and readiness CDD requirements.

OCO:
FY 2024 OCO Plans:
N/A

FY 2025 Base Plans:

FY 2025 Base Plans:
C4I / Warfare Systems Engineering
Integrate the Variable Depth Sonar (VDS) capability onboard Frigates ships through the development and integration of the Combined Active Passive Towed Array Sonar (CAPTAS). Continue system engineering and platform integration efforts for C4I, Combat, and Aviation systems. Continue AWS development efforts to ensure platform combat capability, including the integration of AN/SPY-6(V)3 radar and Rolling Airframe Missile (RAM) system into the Combat System. Continue Over-the-Horizon (OTH) development and integration efforts of SQQ-89 with Frigate ASW sensor suite. Continue integration of AN/SPY-6(V)3 radar to meet Frigate requirements. The program will mature the integrated Warfare System baseline in support of integration and test activities through the CSTB, to determine platform performance against a wide variety of threats in each mission area. Implement additional cyber security/information assurance (IA) measures on the warfare system and C4I suite to pace the current and future threats. Continue product development and planning for warfare system, C4I, and HM&E. Continue to optimize combat system capabilities for the design of hull. Continue modeling and simulation via Frigate Readiness Assessment Model for sustainment and readiness CDD requirements.

OCO:
FY 2025 OCO Plans:
N/A

FY 2025 OCO Plans:

N/A

FY 2024 to FY 2025 Increase/Decrease Statement:

FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total

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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
FY24 to FY25 net decrease of \$5.299M is due to under execution mark (\$3.500M) and various rate adjustments (\$1.799M).					
Accomplishments/Planned Programs Subtotals	106.239	112.972	107.658	0.000	107.658

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>
• SCN/2128: <i>FFG-Frigate</i>	1,444.824	2,173.698	1,170.442	-	1,170.442	2,195.623	1,173.257	2,294.994	1,145.863	7,386.836	22,416.737

Remarks

D. Acquisition Strategy
The FFG 62 Class revised acquisition strategy was signed in 2nd QTR FY 2023.

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

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603599N / FRIGATE Development	Project (Number/Name) 3086 / Frigate
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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			
Conceptual Design Contracts	C/FFP	Various : Various	108.747	0.000		0.000		0.000		-		0.000	0.000	108.747	-
System SPEC Development	WR	Government Activities : Various	8.455	0.000		0.000		0.000		-		0.000	0.000	8.455	-
System SPEC Development	C/CPAF	Various Contractors : Various	26.686	0.000		0.000		0.000		-		0.000	0.000	26.686	-
Over the Horizon (OTH) Missile Integration	WR	NAWC, China Lake : China Lake, CA	3.748	1.816	Feb 2023	1.570	Feb 2024	1.601	Feb 2025	-		1.601	Continuing	Continuing	Continuing
Over the Horizon (OTH) Missile Integration	WR	Various : Various	4.538	1.875	Feb 2023	1.621	Feb 2024	1.653	Feb 2025	-		1.653	Continuing	Continuing	Continuing
FFG Architecture Framework/ Cyber	C/CPAF	Engility : San Diego, CA	4.192	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
C4I Development	WR	NIWC : Charleston, SC	13.232	1.548	Nov 2022	1.339	Nov 2023	1.365	Nov 2024	-		1.365	Continuing	Continuing	Continuing
C4I Development	WR	NIWC : San Diego, CA	14.896	1.527	Nov 2022	1.321	Nov 2023	1.347	Nov 2024	-		1.347	Continuing	Continuing	Continuing
AEGIS Weapons System Development (AWS)	C/CPIF	Lockheed Martin : Various	91.710	9.891	Jan 2023	10.101	Jan 2024	11.329	Jan 2025	-		11.329	Continuing	Continuing	Continuing
AEGIS Weapons System Development (AWS)	Various	Various Contractors : Various	16.734	15.526	Nov 2022	13.990	Nov 2023	13.332	Nov 2024	-		13.332	Continuing	Continuing	Continuing
AEGIS Weapons System Development (AWS)	WR	Government Activities : Various	19.777	9.291	Nov 2022	8.033	Nov 2023	8.193	Nov 2024	-		8.193	Continuing	Continuing	Continuing
Warfare Systems Development	WR	NUWC, Newport : Newport, RI	6.316	0.595	Nov 2022	0.515	Nov 2023	0.525	Nov 2024	-		0.525	Continuing	Continuing	Continuing
Warfare Systems Development	WR	NSWC, DD : Dahlgren, VA	15.953	3.666	Nov 2022	3.170	Nov 2023	3.233	Nov 2024	-		3.233	Continuing	Continuing	Continuing
Warfare Systems Development	WR	NSWC, CD : Carderock, MD	8.115	3.646	Nov 2022	3.153	Nov 2023	3.215	Nov 2024	-		3.215	Continuing	Continuing	Continuing
Warfare Systems Development	C/CPIF	Lockheed Martin : Various	28.467	8.026	Dec 2022	6.939	Dec 2023	6.212	Dec 2024	-		6.212	Continuing	Continuing	Continuing
Warfare Systems Development	Various	Various : Various	29.033	5.814	Nov 2022	16.112	Nov 2023	9.736	Nov 2024	-		9.736	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 / 4	R-1 Program Element (Number/Name) PE 0603599N / FRIGATE Development	Project (Number/Name) 3086 / Frigate
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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			
Warfare Systems Development	WR	Government Activities : Various	15.967	4.204	Nov 2022	3.635	Nov 2023	3.707	Nov 2024	-		3.707	Continuing	Continuing	Continuing
Aviation Integration Development	WR	NAWC, AD : Patuxent River, MD	7.164	0.312	Dec 2022	0.270	Dec 2023	0.275	Dec 2024	-		0.275	Continuing	Continuing	Continuing
Aviation Integration Development	WR	NSWC, DD : Dahlgren, VA	2.429	0.300	Nov 2022	0.260	Nov 2023	0.265	Nov 2024	-		0.265	Continuing	Continuing	Continuing
Product Development Support	WR	Various : Various	6.617	1.913	Nov 2022	1.654	Nov 2023	1.687	Nov 2024	-		1.687	Continuing	Continuing	Continuing
Subtotal			432.776	69.950		73.683		67.675		-		67.675	Continuing	Continuing	N/A

Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Government Engineering Support	WR	NSWC, CD : Carderock, MD	17.588	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Government Engineering Support	WR	NSWC, PD : Philadelphia, PA	7.768	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Government Engineering Support	WR	NSWC, DD : Dahlgren, VA	10.908	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Government Engineering Support	WR	NSWC, PHD : Port Hueneme, CA	2.488	0.558	Nov 2022	0.481	Nov 2023	0.492	Nov 2024	-		0.492	Continuing	Continuing	Continuing
Government Engineering Support	WR	Government Activities : Various	5.799	0.596	Nov 2022	0.516	Nov 2023	0.526	Nov 2024	-		0.526	Continuing	Continuing	Continuing
Contractor Engineering Support	C/CPAF	Booz Allen Hamilton : McLean, VA	4.270	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Contractor Engineering Support	C/CPAF	Gryphon : Arlington, VA	1.950	0.000		0.000		0.000		-		0.000	0.000	1.950	-
Contractor Engineering Support	C/CPIF	SERCO : Herndon, VA	13.494	2.187	Aug 2023	1.544	Aug 2024	2.175	Aug 2025	-		2.175	Continuing	Continuing	Continuing
Contractor Engineering Support	Various	Various : Various	7.742	1.147	Jan 2023	0.992	Jan 2024	1.011	Jan 2025	-		1.011	Continuing	Continuing	Continuing

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Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
1319 / 4				PE 0603599N / FRIGATE Development				3086 / Frigate							
Support (\$ 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
Subtotal			72.007	4.488		3.533		4.204		-		4.204	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)	WR	NSWC, CD : Carderock, MD	11.539	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Prior Year Developmental Test & Evaluation Not Funded FYDP (PYDT&E)	WR	Government Activities : Various	3.316	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	Government Activities : Various	11.777	7.274	Dec 2022	7.302	Dec 2023	6.395	Dec 2024	-		6.395	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	NSWC, PD : Philadelphia, PA	8.683	6.852	Nov 2022	11.900	Nov 2023	12.500	Nov 2024	-		12.500	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	WR	NSWC, CD : Carderock, MD	16.316	11.617	Dec 2022	11.074	Dec 2023	11.296	Dec 2024	-		11.296	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	Various	Various : Various	4.920	4.034	Dec 2022	3.488	Dec 2023	3.557	Dec 2024	-		3.557	0.000	15.999	-
Subtotal			56.551	29.777		33.764		33.748		-		33.748	Continuing	Continuing	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
Program Management Support	C/CPIF	Alion : Arlington, VA	6.332	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Management Support	WR	Various : Various	26.715	2.024	Dec 2022	1.992	Dec 2023	2.031	Dec 2024	-		2.031	Continuing	Continuing	Continuing
Subtotal			33.047	2.024		1.992		2.031		-		2.031	Continuing	Continuing	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy

Date: March 2024

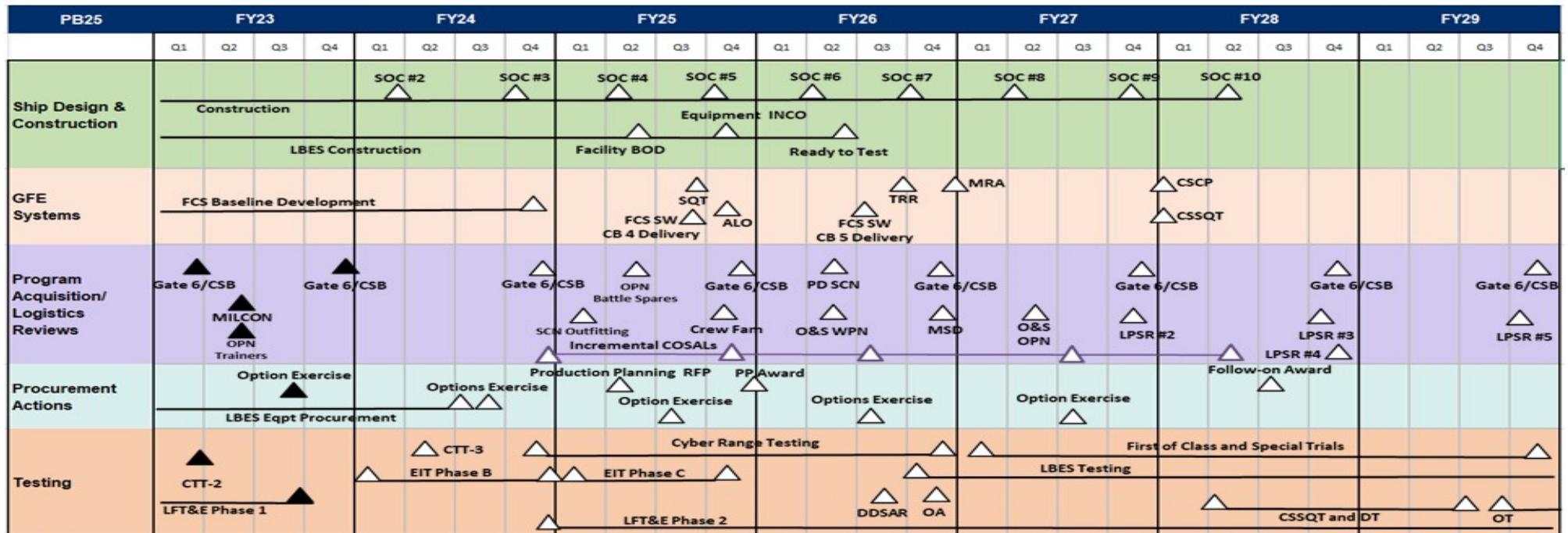
Appropriation/Budget Activity
1319 / 4

R-1 Program Element (Number/Name)
PE 0603599N / FRIGATE Development

Project (Number/Name)
3086 / Frigate



FFG – 62 Schedule



Acronyms:
 ALO: Aegis Light Off
 BOD: Beneficial Occupancy Date
 COSAL: Coordinated Shipboard Allowance List
 CSB: Configuration Steering Board
 CSCP: Combat System Certification Panel
 CSSQT: Combat System Ship Qualification Trials
 CTT: Cyber Table Top
 DD&C: Detail Design & Construction
 DDSAR: Detail Design Survivability Assessment Report
 DT: Developmental Testing
 EIT: Early Integration Test
 FCS: Frigate Combat System
 INCO: Installation and Check Out
 LBES: Land Based Engineering Site
 LFT&E: Live-Fire Test & Evaluation
 LPSR: Logistics Product Support Review
 MRA: Material Receipt Acknowledgement
 MSD: Material Support Date
 OA: Operational Assessment
 OT: Operational Testing
 SOC: Start of Construction
 SQT: Software Qualification Testing
 SW: Software
 TRR: Test Readiness Review

▲ = complete or started

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603599N / <i>FRIGATE Development</i>	Project (Number/Name) 3086 / <i>Frigate</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3086				
Ship Design: Ready to Test	2	2026	2	2026
Ship Design: Facility BOD	2	2025	2	2025
Ship Design: Equipment INCO	4	2025	4	2025
Ship Design: SOC # 2	1	2024	1	2024
Ship Design: SOC # 3	4	2024	4	2024
Ship Design: SOC # 4	2	2025	2	2025
Ship Design: SOC # 5	4	2025	4	2025
Ship Design: SOC # 6	2	2026	2	2026
Ship Design: SOC # 7	4	2026	4	2026
Ship Design: SOC # 8	2	2027	2	2027
Ship Design: SOC # 9	4	2027	4	2027
Ship Design: SOC # 10	2	2028	2	2028
Ship Design: LBES Design and Construction	1	2023	3	2026
GFE Systems: CSSQT	1	2028	1	2028
GFE Systems: CSCP	1	2028	1	2028
GFE Systems: MRA	4	2026	4	2026
GFE Systems: ALO	4	2025	4	2025
GFE Systems: FCS Baseline Development	1	2023	4	2024
GFE Systems: Software Qualification Test	3	2025	3	2025
GFE Systems: CS Software Technical Readiness Review (TRR)	3	2026	3	2026
GFE Systems: FCS SW Delivery 4	3	2025	3	2025
GFE Systems: FCS SW Delivery 5	3	2026	3	2026

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

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603599N / <i>FRIGATE Development</i>	Project (Number/Name) 3086 / <i>Frigate</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Program Acquisition/Logistics Reviews: Gate 6 /CSB #1	1	2023	1	2023
Program Acquisition/Logistics Reviews: Material Support Date	4	2026	4	2026
Program Acquisition/Logistics Reviews: Gate 6 /CSB #2	4	2023	4	2023
Program Acquisition/Logistics Reviews: Gate 6 /CSB #3	4	2024	4	2024
Program Acquisition/Logistics Reviews: Gate 6 /CSB #4	4	2025	4	2025
Program Acquisition/Logistics Reviews: Gate 6 /CSB #5	4	2026	4	2026
Program Acquisition/Logistics Reviews: Gate 6 /CSB #6	4	2027	4	2027
Program Acquisition/Logistics Reviews: Gate 6 /CSB #7	4	2028	4	2028
Program Acquisition/Logistics Reviews: Gate 6 /CSB #8	4	2029	4	2029
Program Acquisition/Logistics Reviews: Incremental COSALs	4	2024	2	2028
Program Acquisition/Logistics Reviews: Battle Spares	2	2025	2	2025
Program Acquisition/Logistics Reviews: Crew Familiarization	4	2025	4	2025
Program Acquisition/Logistics Reviews: PD SCN	2	2026	2	2026
Program Acquisition/Logistics Reviews: MSD	4	2026	4	2026
Program Acquisition/Logistics Reviews: O&S	2	2027	2	2027
Program Acquisition/Logistics Reviews: LPSR #2	4	2027	4	2027
Program Acquisition/Logistics Reviews: LPSR #3	4	2028	4	2028
Program Acquisition/Logistics Reviews: LPSR #4	4	2028	4	2028
Program Acquisition/Logistics Reviews: LPSR #5	4	2029	4	2029
Procurement: Production Planning RFP	2	2025	2	2025
Procurement: PP Award	4	2025	4	2025
Procurement: Follow-on Award	3	2028	3	2028
Procurement: Option Exercise 3	3	2023	3	2023
Procurement: Option Exercise 4	3	2024	3	2024
Procurement: Option Exercise 5	3	2025	3	2025
Procurement: Option Exercise 6	3	2026	3	2026

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

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0603599N / <i>FRIGATE Development</i>	Project (Number/Name) 3086 / <i>Frigate</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Procurement: Option Exercise 7	3	2027	3	2027
Procurement: LBES Equipment Procurement	1	2023	3	2024
Testing: CSSQT/DT	2	2028	3	2029
Testing: Cyber Range Testing	4	2024	4	2026
Testing: Live Fire Test & Evaluation (LFT&E) #1	1	2023	3	2023
Testing: Cyber Table Top (CTT)-2	1	2023	1	2023
Testing: Land Based SIM/STIM Testing/Early Integration Risk Reduction Test	3	2026	4	2029
Testing: EIT Phase B	1	2024	4	2024
Testing: Cyber Table Top (CTT-3)	2	2024	2	2024
Testing: EIT Phase C	1	2025	4	2025
Testing: Live Fire Test & Evaluation (LFT&E) #2	4	2024	4	2029
Testing: DDSAR	3	2026	3	2026
Testing: Operational Assessment	4	2026	4	2026
Testing: Special Trials	1	2027	4	2029