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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 0604567N / <i>Ship Contract Design/ Live Fire T&E</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	965.146	59.467	22.462	13.675	-	13.675	29.361	9.137	7.173	7.337	Continuing	Continuing
1803: <i>Ship Contract Design</i>	149.924	2.743	3.112	2.000	-	2.000	3.114	2.992	2.438	2.505	Continuing	Continuing
2465: <i>LHA(R) FLT Design and Total Ship Integration</i>	288.149	12.188	19.350	11.675	-	11.675	26.247	6.145	4.735	4.832	Continuing	Continuing
3108: <i>CVN 80 Total Ship Integration</i>	162.399	25.562	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	187.961
3179: <i>CVN-79 Total Ship Integration</i>	275.236	15.031	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	290.267
4007: <i>CVN 21 LFT&E</i>	89.438	3.943	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	93.381

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 333, 223

A. Mission Description and Budget Item Justification

This Program Element (PE) directly supports the Navy's Shipbuilding Plan by providing for the development of engineering, programmatic and acquisition documentation including ship specifications (including performance specifications) and contractual documentation associated with acquisition of Navy ships. This PE also supports the Congressionally mandated Live Fire Test and Evaluation (LFT&E) program for new ship designs.

Contract Design has traditionally been the engineering development of the technical and contractual definition of the ship design (including ship specifications and drawings) to a level of detail sufficient for shipbuilders to make a sound estimate of the construction cost and schedule. Additionally, the contract design package developed under this PE has provided the technical baseline from which the Navy selects the shipbuilder who then develops the detail design package required to support the construction and eventual delivery of the ship. This PE also supports the development of design methodologies/tools which facilitate and optimize the transition from ship design documents to efficient production of new ships and ship conversions, and supports engineering planning and ship affordability studies.

Under Acquisition Reform for new design ships, traditional distinct phasing of the design process has been replaced with a continuous concurrent engineering Integrated Product and Process Development (IPPD) process extending through and after contract award. This serves to maintain the focus of multi-discipline teams consisting of the government, shipbuilder, system programs, and suppliers. Government/Industry Integrated Product Team(s) (IPTs) will utilize the IPPD process to develop the design in an Integrated Product and Data Environment (IPDE). The design approach is part of an acquisition strategy that is based on commercial practices and incorporates a phased technical definition.

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CVN 78 Class efforts consisting of Project Units 3179, 3108, and 4007 were moved to PE 0604112N / Project Unit 2208 in FY 2024 and later, enabling Major Defense Acquisition Program (MDAP) transparency of the CVN 78 Class.

B. Program Change Summary (\$ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	60.791	22.462	27.543	-	27.543
Current President's Budget	59.467	22.462	13.675	-	13.675
Total Adjustments	-1.324	0.000	-13.868	-	-13.868
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.003	0.000			
• SBIR/STTR Transfer	-1.321	0.000			
• Program Adjustments	0.000	0.000	-13.873	-	-13.873
• Rate/Misc Adjustments	0.000	0.000	0.005	-	0.005

Change Summary Explanation

FY 2025 PROJ PU 1803: Decrease due to overall reduction as result of proper execution phasing and miscellaneous rate adjustments.

FY 2025 PROJ PU 2465: Decrease due to delay of LHA 8 Dynamic Interface Testing from FY 2025 to FY 2027.

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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 0604567N / <i>Ship Contract Design/ Live Fire T&E</i>				Project (Number/Name) 1803 / <i>Ship Contract Design</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
1803: <i>Ship Contract Design</i>	149.924	2.743	3.112	2.000	-	2.000	3.114	2.992	2.438	2.505	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

DDG Modernization:

The major effort is the engineering development of the technical and contractual definition of the ship's design (e.g. ship specifications and drawings), with sufficient details for the planning yard to make a sound estimate of cost and schedule. It also serves as the technical definition from which the planning yard develops the detailed design and testing package required to build and test the ship. It provides the Navy with a digital, ship design knowledge base, including lessons learned, required to ensure that a proper development, analysis and evaluation can be conducted of any current or future planned.

Another area this project funds is the development of specific Navy ship criteria and standards for newly developed technologies. Additionally, as new laws are passed, new safety regulations and environmental criteria are developed and other legal/Congressional requirements identified, this project funds the translation into Navy ship design criteria

and standards. This project also funds the translation of the traditional Ship Specifications into performance-based criteria, which supports the development of design methodologies/tools which facilitate and optimize the transition from ship design documents to ship alterations. This project also supports ship survivability studies, superstructure integrity analysis, developmental and operational testing, gun weapon system software integration and next generation Machinery Control System (MCS) software integration.

Expeditionary Sea Base (ESB) (formerly MLP AFSB)

Prior year funding included the performance specification development and Dynamic Interface Testing for various airframes as part of the ESB Special Operations Forces (SOF) Backfit.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Ship Contract Design	2.743	3.112	2.000	0.000	2.000
Articles:	-	-	-	-	-
FY 2024 Plans: DDG 51 Flt IIA ship design to include continued development of structural reliability and other alterations to include machinery control systems improvements in FY 2024. Funding will support continued research and development efforts associated with DDGM 2.0 and back-fit of SPY-6(v)4 on the DDG-51 Class. Funds will also support continued lab upgrades for Hull, Mechanical, and Electrical (HM&E) systems associated with DDGM.					
FY 2025 Base Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604567N / <i>Ship Contract Design/ Live Fire T&E</i>	Project (Number/Name) 1803 / <i>Ship Contract Design</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Funding will support continued research and development efforts associated with DDG Class design.					
<i>FY 2025 OCO Plans:</i> N/A					
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Overall reduction to project as result of proper execution phasing and miscellaneous rate adjustments.					
Accomplishments/Planned Programs Subtotals	2.743	3.112	2.000	0.000	2.000

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>
• OPN 0900: <i>DDG Mod</i>	741.354	628.532	861.066	-	861.066	860.988	930.378	946.139	965.049	11,632.088	22,260.273
• OPN 0960: <i>CG Mod</i>	59.054	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	3,936.983

Remarks

D. Acquisition Strategy
Continuing systems and software development for both development models and production machinery control units at Land Based Engineering Sites.

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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 0604567N / Ship Contract Design/ Live Fire T&E				1803 / Ship Contract Design							
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
CG Mod Electronics Systems Eng	C/CPAF	Lockheed : Martin, Moorestown, NJ	17.413	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
DON Energy Initiative - OEM	C/FPIF	L-3 Maritime Systems : Leesburg, VA	34.857	0.000		0.000		0.000		-		0.000	0.000	34.857	-
DON Energy Initiative	WR	NSWC/SSES : Philadelphia, PA	3.629	0.000		0.000		0.000		-		0.000	0.000	3.629	-
Engineering Development and Design	Various	COTF/NAVAIR/NSWCDD/NSWCDD/NSWCPC/NSWCPC/NSWCPC/NSWCSSSES : DC/MD/PA/CA	1.085	0.000		0.000		0.000		-		0.000	0.000	1.085	-
Preliminary and Contract Design	C/FPIF	NASSCO : San Diego, CA	6.500	0.000		0.000		0.000		-		0.000	0.000	6.500	-
Hybrid Electric Drive	C/CPIF	L-3 Maritime Systems : Leesburg, VA	6.911	0.000		0.000		0.000		-		0.000	0.000	6.911	-
Hybrid Electric Drive	C/CPAF	Rolls Royce : Walpole, MA	0.100	0.000		0.000		0.000		-		0.000	0.000	0.100	-
Hybrid Electric Drive	C/CR	General Atomics : San Diego, CA	0.040	0.000		0.000		0.000		-		0.000	0.000	0.040	-
Hybrid Electric Drive	C/CPAF	Herren Engineering : Alexandria, VA	0.600	0.000		0.000		0.000		-		0.000	0.000	0.600	-
Hybrid Electric Drive	C/CPAF	Syntek : Arlington, VA	0.099	0.000		0.000		0.000		-		0.000	0.000	0.099	-
Hybrid Electric Drive	WR	NSWC/SSES : Philadelphia, PA	0.750	0.000		0.000		0.000		-		0.000	0.000	0.750	-
Hybrid Electric Drive	Various	Not Specified : Not Specified	8.500	0.000		0.000		0.000		-		0.000	0.000	8.500	-
Subtotal			80.484	0.000		0.000		0.000		-		0.000	Continuing	Continuing	N/A

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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 0604567N / Ship Contract Design/ Live Fire T&E				Project (Number/Name) 1803 / Ship Contract Design							
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
DDG/CGM Program / Engineering Spt	WR	NSWC/DD : Dahlgren, VA	4.376	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
DDGM Program/ Engineering Spt	Various	SUPSHIP/BATH : Bath, ME	3.331	0.000		1.900	May 2024	1.000	Jun 2025	-		1.000	Continuing	Continuing	Continuing
DDG/CGM Program / Engineering Spt	C/CPAF	CSC/BAE : Hampton, VA	4.713	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
DDG/CGM Program / Engineering Spt	WR	SPAWARSYSCEN : Charleston, SC	2.004	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
CGM Program / Engineering Spt	WR	NRL : Washington, DC	0.617	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
CGM Program / Engineering Spt	C/CPAF	JJMA/ALION : Washington, DC	2.947	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
DDG/CGM Program / Engineering Spt	C/CPAF	Lockheed Martin : Moorestown, NJ	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
DDG/CGM Program / Engineering Spt	WR	NSWC/PHD : Port Hueneme, CA	2.889	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Integrated Logistics Support	C/CPFF	CSC : Washington DC	0.085	0.000		0.000		0.000		-		0.000	0.000	0.085	-
CGM/DDG Program / Engineering Spt	WR	COMPTEVFOR : Norfolk, VA	0.420	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
DDGM/HED Program / Engineering Spt	WR	NSWC/SSES : Philadelphia, PA	4.900	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
DDGM Program / Engineering Spt	WR	NSWC/SSES : Philadelphia, PA	7.921	0.437	Jan 2023	1.212	May 2024	1.000	Feb 2025	-		1.000	0.000	10.570	-
HED Program / Engineering Spt	WR	NSWC/SSES : Philadelphia, PA	0.500	0.000		0.000		0.000		-		0.000	0.000	0.500	-
HED	C/CPAF	L-3 Maritime Systems : Leesburg, VA	1.048	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
CG Program / Engineering Spt	WR	NSWC/BETHESDA : Bethesda, MD	11.416	0.291	Jan 2023	0.000		0.000		-		0.000	Continuing	Continuing	Continuing

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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 0604567N / Ship Contract Design/ Live Fire T&E				1803 / Ship Contract Design							
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
CG Program / Engineering Spt	Various	SUPSHIP/ PASCAGOULA : Pascagoula, MS	5.943	0.340	Jun 2023	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
DDG/CGM Program / Engineering Spt	C/CPFF	John Hopkins University : Laurel, MD	2.706	0.428	Apr 2023	0.000		0.000		-		0.000	0.000	3.134	-
ESB	Various	Various : Various	5.276	0.000		0.000		0.000		-		0.000	0.000	5.276	-
NAVSEA Boundary Defense Capability	Various	Various : Various	1.995	0.000		0.000		0.000		-		0.000	0.000	1.995	-
CG Program / Engineering Spt	WR	NSWC/SSES : Philadelphia, PA	6.353	1.247	Jan 2023	0.000		0.000		-		0.000	0.000	7.600	-
Subtotal			69.440	2.743		3.112		2.000		-		2.000	Continuing	Continuing	N/A
Project Cost Totals			149.924	2.743		3.112		2.000		-		2.000	Continuing	Continuing	N/A
Remarks															

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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 0604567N / <i>Ship Contract Design/ Live Fire T&E</i>	Project (Number/Name) 1803 / <i>Ship Contract Design</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 1803</i>				
Ship Contract Design: CGM Baseline 4 Mod Design	1	2023	4	2025
Ship Contract Design: CG Class Design	1	2023	4	2028
Ship Contract Design: DDG Technical Insertion 16 Mod Design	1	2023	4	2024
Ship Contract Design: DDG FLT IIA Mod Design	1	2023	2	2025
Ship Contract Design: CG Deliveries (CG 59,61,62,63-73)	1	2023	4	2024
Ship Contract Design: DDGM Deliveries (DDG 61,80,81,84,87)	1	2023	3	2024
Ship Contract Design: DDG Class Design	1	2023	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 0604567N / Ship Contract Design/ Live Fire T&E				Project (Number/Name) 2465 / LHA(R) FLT Design and Total Ship Integration			
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
2465: LHA(R) FLT Design and Total Ship Integration	288.149	12.188	19.350	11.675	-	11.675	26.247	6.145	4.735	4.832	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 333

A. Mission Description and Budget Item Justification

This project provides the contract design, development, and testing efforts for the Amphibious Assault Ship General Purpose Replacement Program - LHA(R). The LHA(R) is a ship construction program designed to: (1) provide a functional replacement for the Amphibious Assault Ships which reached the end of their extended service lives (2) be a key platform in the Amphibious Readiness Group (ARG) of the future and (3) provide for an affordable and sustainable amphibious ship development program. LHA(R) ships will provide forward presence and power projection as an integral part of Joint, inter-agency, and multi-national maritime expeditionary forces. Additionally, LHA(R) will be designed to operate for sustained periods in transit to and operations in an Amphibious Objective Area to include the embarkation, deployment, and landing of a Marine Landing Force in an assault with landing craft, helicopters and tilt rotors (MV-22) supported by Joint Strike Fighters (F-35B).

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: LHA (R) FLT 0 Design and Total Ship Integration - LHA 6	0.060	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2024 Plans: N/A					
FY 2025 Base Plans: N/A					
FY 2025 OCO Plans: N/A					
Title: LHA (R) FLT 1 Design and Total Ship Integration - LHA 8	12.128	19.350	11.675	0.000	11.675
Articles:	-	-	-	-	-
FY 2024 Plans: LHA 8 Initiate Lead Ship Operational Test (OT) Campaign (Air Warfare Ship Self Defense) Test and Evaluation (T&E) events					

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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
LHA 8 Continue research and systems engineering for replacing Fuel at Sea (FAS) equipment no longer obtainable LHA 8 Continue Dynamic Interface-Virtual Environment (DIVE) Modeling and Simulation LHA 8 Continue Reliability, Maintainability, and Availability (RM&A) analyses. LHA 8 Continue development of the Vulnerability Assessment Report (VAR) LHA 8 Continue Operational Test & Evaluation (OT&E) preparation for Operational Assessment LHA 8 Continue Cyber Security Developmental Test & Evaluation (DT&E) efforts LHA 8 Continue Live Fire Test & Evaluation (LFT&E) efforts FY 2025 Base Plans: LHA 8 Initiate resolution of Director, Operational Test and Evaluation (DOT&E) Operational Assessment findings related to UHF and HFR NSA encryption compliancy LHA 8 Initiate LHA class obsolescence research and system engineering LHA 8 Continue Lead Ship OT Campaign (Air Warfare Ship Self Defense) T&E events LHA 8 Continue DIVE Modeling and Simulation LHA 8 Continue RM&A analyses LHA 8 Continue development of the VAR LHA 8 Continue Operational Test & Evaluation (OT&E) preparation for Operational Assessment LHA 8 Continue Cyber Security DT&E efforts LHA 8 Continue LFT&E efforts LHA 8 Continue research and systems engineering for replacing FAS equipment no longer obtainable FY 2025 OCO Plans: N/A FY 2024 to FY 2025 Increase/Decrease Statement: FY 2024 to FY 2025 decrease of \$7.675M reflects the delay of Flight 1 Dynamic Interface Testing from FY 2025 to FY 2027.					
Accomplishments/Planned Programs Subtotals	12.188	19.350	11.675	0.000	11.675

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/3041/5300: LHA (R) Ships	1,393.770	1,830.149	176.515	-	176.515	513.203	2,326.073	1,383.974	0.000	0.000	18,808.654

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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Remarks

D. Acquisition Strategy

LHA 6 Advance Procurement (AP) and Long Lead Time Material (LLTM) was awarded on a sole source basis to Huntington Ingalls Inc., formerly Northrop Grumman Shipbuilding, on 15 July 2005; LHA 6 Detail Design and Construction (DD&C) was awarded on 1 June 2007. The AP and LLTM efforts were subsumed by the Fixed Price Incentive, Firm Target DD&C contract.

LHA 7 AP and LLTM was awarded on a sole source basis to Huntington Ingalls Inc., formerly Northrop Grumman Shipbuilding, on 30 June 2010; LHA 7 DD&C was awarded on 31 May 2012. The AP and LLTM efforts were subsumed by the Fixed Price Incentive, Firm Target DD&C contract.

LHA 8 Planning, Advanced Engineering and Procurement of LLTM for an LHA Replacement (LHA(R)) Flight 1 Amphibious Assault Ship was awarded on a competitive basis to Huntington Ingalls Inc. on 30 June 2016. The option for LHA 8 DD&C contract was awarded on 16 June 2017. The Planning, Advanced Engineering and Procurement of LLTM efforts were subsumed into this Fixed Price Incentive, Firm Target DD&C contract option.

LHA 9 Planning, Advanced Engineering and Procurement of LLTM was awarded on a sole source basis to Huntington Ingalls Inc. on 30 April 2020; the DD&C contract option was awarded on 27 October 2022 and subsumed the AP and LLTM efforts into this Fixed Price Incentive, Firm Target DD&C contract option.

LHA 10 Planning, Advanced Engineering and Procurement of LLTM was awarded on a sole source basis to Huntington Ingalls Inc. on 17 November 2023. The DD&C award is planned for Q1 FY 2027.

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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 0604567N / Ship Contract Design/ Live Fire T&E	Project (Number/Name) 2465 / LHA(R) FLT Design and Total Ship Integration
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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			
Ship Design	WR	NSWC : Various	97.905	0.000		0.000		0.000		-		0.000	0.000	97.905	-
Ship Design	C/CPFF	HII : Pascagoula, MS	5.009	0.000		0.000		0.000		-		0.000	0.000	5.009	-
Ship Design	C/CPFF	Various : Various	44.087	0.000		0.000		0.000		-		0.000	0.000	44.087	-
Special Studies	WR	NSWC : Panama City, FL	4.800	0.000		0.000		0.000		-		0.000	0.000	4.800	-
Ship Design	WR	PEO C4I : San Diego, CA	0.000	0.000		0.000		3.300	Jul 2025	-		3.300	0.000	3.300	-
Subtotal			151.801	0.000		0.000		3.300		-		3.300	0.000	155.101	N/A

Remarks
FY 2025 increase reflects the additional funds required to initiate the resolution of DOT&E Operational Assessment findings related to NSA mandated UHF and HFR encryption updates.

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			
Technical Engineering Services	Various	NSWC : Various	14.220	8.338	Dec 2022	5.750	Dec 2023	3.737	Nov 2024	-		3.737	Continuing	Continuing	Continuing
Technical Engineering Services	Various	NAVAIR : Patuxent River, MD	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Subtotal			14.220	8.338		5.750		3.737		-		3.737	Continuing	Continuing	N/A

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation (DT&E)	Various	NSWC, USS Secure : Various	7.535	2.034	Dec 2022	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Operational Test & Evaluation (OT&E)	WR	Various : Various	26.163	0.437	Dec 2022	13.500	Dec 2023	1.650	Mar 2025	-		1.650	Continuing	Continuing	Continuing

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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 0604567N / <i>Ship Contract Design/ Live Fire T&E</i>	Project (Number/Name) 2465 / <i>LHA(R) FLT Design and Total Ship Integration</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2465				
LHA (R) FLT Design and Total Ship Integration	1	2023	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 0604567N / Ship Contract Design/ Live Fire T&E				Project (Number/Name) 3108 / CVN 80 Total Ship Integration			
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
3108: CVN 80 Total Ship Integration	162.399	25.562	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	187.961
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 223

A. Mission Description and Budget Item Justification

Development and related testing of CVN 78 Class aircraft carrier specific technologies, the infusion of the ship technology base into existing and future aircraft carriers, and the potential realization of subsystem design capabilities not currently feasible. This project also funds the Contract Design efforts for the CVN 80. This project transitions the minimum sustaining technologies required to address obsolescence, critical survivability shortfalls as identified in CVN 78 Class testing, future requirements, and technologies which did not mature in time to support the CVN 78 or CVN 79. All systems developed in this project have the potential to support emerging requirements and other promising system technologies for insertion into new aircraft carrier designs. The emphasis is directed toward developing ship hull, mechanical, propulsion, electrical, aviation, warfare systems, and combat support systems, sub-systems and components to maintain aircraft carrier affordability, manpower requirements, survivability, and operational capabilities and to meet the requirements of existing and pending regulations and statutes critical to the operation of future aircraft carriers. This project also encompasses those tasks required to support CVN 80 procurement, including, but not limited to engineering support, programmatic and program support, modeling and simulation, manpower and program related studies, and design support systems, such as the Integrated Digital Environment.

This PU's efforts moved to PE 0604112N PU 2208 for FY 2024 and later.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Enterprise Radar Suite (ERS)/ Warfare Systems Development and Integration	3.635	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2024 Plans: N/A					
FY 2025 Base Plans: N/A					
FY 2025 OCO Plans: N/A					
Title: CVN 78 Class Design for Affordability (DFA) and Systems Integration	21.927	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-

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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 0604567N / <i>Ship Contract Design/ Live Fire T&E</i>	Project (Number/Name) 3108 / <i>CVN 80 Total Ship Integration</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
FY 2024 Plans: N/A					
FY 2025 Base Plans: N/A					
FY 2025 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	25.562	0.000	0.000	0.000	0.000

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
• RD TEN / 0604112N: <i>Project Units 2208, 4004, 9999</i>	112.504	118.182	96.670	-	96.670	113.761	112.807	58.679	59.733	Continuing	Continuing
• SCN / 2001: <i>Carrier Replacement Program</i>	1,465.880	1,115.296	1,186.873	-	1,186.873	1,135.378	1,582.108	2,574.201	2,744.200	Continuing	Continuing
• SCN / 2004: <i>CVN 81</i>	1,052.024	800.492	721.045	-	721.045	2,052.709	2,569.131	2,068.582	0.000	0.000	14,015.634
• SCN / 5300: <i>Completion of PR Shpblgdg Progr</i>	461.700	624.600	236.000	-	236.000	0.000	0.000	0.000	0.000	0.000	3,079.160
• OPN / 5664: <i>Surface Training Equipment</i>	2.468	2.430	2.474	-	2.474	2.649	2.701	2.759	2.816	Continuing	Continuing
• OMN / 1B2B: <i>CVN 78 Ford Class Training and Sustainment</i>	5.457	6.064	6.129	-	6.129	6.222	6.258	6.230	6.360	Continuing	Continuing
• OMN / 1B5B: <i>Ford Class PCU Housing</i>	4.421	15.587	13.584	-	13.584	0.800	10.600	10.812	11.039	Continuing	Continuing

Remarks

D. Acquisition Strategy

The CVN 80 is the third ship of the CVN 78 Class of aircraft carriers designed to replace USS ENTERPRISE and the ships of the NIMITZ Class Carriers. The CVN 80 is a modified repeat of the CVN 78, which features a new nuclear propulsion and electrical generation / distribution system, electromagnetic aircraft launching system, advanced arresting gear system, electric auxiliaries, warfare system improvements, survivability enhancements, improved weapons handling, and improved aircraft servicing. These design features will result in lower manpower and total ownership costs as compared to the NIMITZ Class. Additionally, the following war-

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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 0604567N / <i>Ship Contract Design/ Live Fire T&E</i>	Project (Number/Name) 3108 / <i>CVN 80 Total Ship Integration</i>
<p>fighting benefits will be realized: increased sortie generation rate, improved ship self-defense capability, increased launch and recovery capability / flexibility, increased operational availability, and increased flexibility to support future upgrades.</p> <p>CVN 80 will use late integration of Government Furnished Equipment (GFE) to provide the latest combat system and Command, Control, Communications, Computers, and Intelligence (C4I) suite applications within the planned system baseline. CVN 80 will improve upon processes used on CVN 78 and CVN 79 to gain efficiencies during the CVN 80 Construction Preparation and Construction periods.</p>		

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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 0604567N / Ship Contract Design/ Live Fire T&E	Project (Number/Name) 3108 / CVN 80 Total Ship Integration
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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			
Advanced Design & Development	C/CPAF	HII : VA	81.162	8.000	Nov 2022	0.000		0.000		-		0.000	0.000	89.162	-
Advanced Design & Development	C/CPFF	GRYPHON (SEI&T) : IN	5.537	2.500	Nov 2022	0.000		0.000		-		0.000	0.000	8.037	-
Advanced Design & Development	WR	NSWC DAHLGREN : VA	15.626	2.500	Nov 2022	0.000		0.000		-		0.000	0.000	18.126	-
Advanced Design & Development	WR	NSWC CARDEROCK : MD	8.152	1.500	Nov 2022	0.000		0.000		-		0.000	0.000	9.652	-
Advanced Design & Development	WR	NSWC PHILADELPHIA : PA	5.001	2.000	Nov 2022	0.000		0.000		-		0.000	0.000	7.001	-
Advanced Design & Development	C/CPFF	NAVSEA SEAPORT : VARIOUS	22.930	3.000	Nov 2022	0.000		0.000		-		0.000	0.000	25.930	-
Advanced Design & Development	C/BA	NAWCAD PAX RIVER : MD	6.563	1.000	Nov 2022	0.000		0.000		-		0.000	0.000	7.563	-
Advanced Design & Development	WR	SPAWAR : VARIOUS	3.947	0.900	Nov 2022	0.000		0.000		-		0.000	0.000	4.847	-
Advanced Design & Development	Various	NSRP : VARIOUS	4.005	1.500	Nov 2022	0.000		0.000		-		0.000	0.000	5.505	-
Advanced Design & Development	Various	MISCELLANEOUS : VARIOUS	9.164	2.662	Nov 2022	0.000		0.000		-		0.000	0.000	11.826	-
Prior Year AD&D No Longer Funded in the FYDP	Various	VARIOUS : VARIOUS	0.312	0.000		0.000		0.000		-		0.000	0.000	0.312	-
Subtotal			162.399	25.562		0.000		0.000		-		0.000	0.000	187.961	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	162.399	25.562	0.000	0.000	-	0.000	0.000	187.961	N/A

Remarks

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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 0604567N / <i>Ship Contract Design/ Live Fire T&E</i>	Project (Number/Name) 3108 / <i>CVN 80 Total Ship Integration</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3108				
CVN 80 Total Ship Integration	1	2023	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 0604567N / Ship Contract Design/ Live Fire T&E				Project (Number/Name) 3179 / CVN-79 Total Ship Integration			
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
3179: CVN-79 Total Ship Integration	275.236	15.031	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	290.267
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 223

A. Mission Description and Budget Item Justification

Development and related testing of CVN 78 Class aircraft carrier specific technologies, the infusion of the ship technology base into existing and future aircraft carriers, and the potential realization of subsystem design capabilities not currently feasible. This project also funds the Contract Design efforts for the CVN 79. This project transitions the minimum sustaining technologies required to address obsolescence, critical survivability shortfalls as identified in CVN 78 Class testing, future requirements, and technologies which did not mature in time to support the CVN 78. All systems developed in this project have the potential to support emerging requirements and other promising systems technologies for insertion into new aircraft carrier designs. The emphasis is directed toward developing ship hull, mechanical, propulsion, electrical, aviation, warfare systems, and combat support systems, sub-systems and components to maintain aircraft carrier affordability, manpower requirements, survivability, and operational capabilities and to meet the requirements of existing and pending regulations and statutes critical to the operation of future aircraft carriers. This project also encompasses those tasks required to develop the contract data package necessary to support CVN 79 procurement, including, but not limited to, engineering support, programmatic and program support, logistics support, modeling and simulation, manpower and program related studies, and design support systems, such as the Integrated Digital Environment. In addition, this project focuses on significant procurement and life cycle cost reduction compared to the first ship of the class. Cost reductions are sought, developed and implemented in the areas of design, labor and material.

This PU's efforts moved to PE 0604112N PU 2208 for FY 2024 and later.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: CVN-79 Total Ship Integration	15.031	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2024 Plans: N/A					
FY 2025 Base Plans: N/A					
FY 2025 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	15.031	0.000	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 0604567N / <i>Ship Contract Design/ Live Fire T&E</i>	Project (Number/Name) 3179 / <i>CVN-79 Total Ship Integration</i>

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2025</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• RD TEN / 0604112N: <i>Project Units 2208, 4004, 9999</i>	112.504	118.182	96.670	-	96.670	113.761	112.807	58.679	59.733	Continuing	Continuing
• SCN / 2001: <i>Carrier Replacement Program</i>	1,465.880	1,115.296	1,186.873	-	1,186.873	1,135.378	1,582.108	2,574.201	2,744.200	Continuing	Continuing
• SCN / 2004: <i>CVN 81</i>	1,052.024	800.492	721.045	-	721.045	2,052.709	2,569.131	2,068.582	0.000	0.000	14,015.634
• SCN / 5300: <i>Completion of PY Shpblgdg Progr</i>	461.700	624.600	236.000	-	236.000	0.000	0.000	0.000	0.000	0.000	3,079.160
• OPN / 5664: <i>Surface Training Equipment</i>	2.468	2.430	2.474	-	2.474	2.649	2.701	2.759	2.816	Continuing	Continuing
• OMN / 1B2B: <i>CVN 78 Ford Class Training and Sustainment</i>	5.457	6.064	6.129	-	6.129	6.222	6.258	6.230	6.360	Continuing	Continuing
• OMN / 1B5B: <i>Ford Class PCU Housing</i>	4.421	15.587	13.584	-	13.584	0.800	10.600	10.812	11.039	Continuing	Continuing

Remarks

D. Acquisition Strategy

The CVN 78 is the first ship of the CVN 78 Class of aircraft carriers designed to replace USS ENTERPRISE and the ships of the NIMITZ Class. The CVN 78 class will feature a new nuclear propulsion and electrical generation/distribution system, new electromagnetic aircraft launching system (EMALS), advanced arresting gear (AAG) system, all electric auxiliaries, warfare system improvements, survivability enhancements, improved weapons handling, and improved aircraft servicing. These design features will result in lower manpower and total ownership costs as compared to the NIMITZ Class. Additionally, the following war fighting benefits will be realized: increased sortie generation rate, improved ship self-defense capability, increased launch and recovery capability / flexibility, increased operational availability, and increased flexibility to support future upgrades.

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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 0604567N / Ship Contract Design/ Live Fire T&E				3179 / CVN-79 Total Ship Integration								
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	
Total Ship Integration	C/CPAF	HII : VA	135.936	15.031	Nov 2022	0.000		0.000		-		0.000	0.000	150.967	-	
Prior Year Total Ship Integration No Longer Funded in the FYDP	Various	VARIOUS : VARIOUS	130.279	0.000		0.000		0.000		-		0.000	0.000	130.279	-	
Subtotal			266.215	15.031		0.000		0.000		-		0.000	0.000	281.246	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)	Various	VARIOUS : VARIOUS	8.840	0.000		0.000		0.000		-		0.000	0.000	8.840	-	
Subtotal			8.840	0.000		0.000		0.000		-		0.000	0.000	8.840	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	
Prior Year Management Services No Longer Funded in the FYDP	Various	VARIOUS : VARIOUS	0.181	0.000		0.000		0.000		-		0.000	0.000	0.181	-	
Subtotal			0.181	0.000		0.000		0.000		-		0.000	0.000	0.181	N/A	
Project Cost Totals			275.236	15.031		0.000		0.000		-		0.000	0.000	290.267	N/A	
Remarks																

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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 0604567N / <i>Ship Contract Design/ Live Fire T&E</i>	Project (Number/Name) 3179 / <i>CVN-79 Total Ship Integration</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3179				
CVN 79 Total Ship Integration	1	2023	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 0604567N / Ship Contract Design/ Live Fire T&E	Project (Number/Name) 4007 / CVN 21 LFT&E
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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
4007: CVN 21 LFT&E	89.438	3.943	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	93.381
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 223

A. Mission Description and Budget Item Justification

This project encompasses Live Fire Test and Evaluation (LFT&E) efforts for the CVN 78 Class. Title 10, US Code, Section 2366, CVN 21 Operational Requirements Document (ORD) and the CVN 78 Class Test and Evaluation Master Plan (TEMP) 1610 prescribe requirements for LFT&E. The purpose of LFT&E is to evaluate covered systems in a realistic combat environment before proceeding beyond low-rate initial production. Since the application of the survivability testing required by 10 USC 2366 to a CVN 78 Class ship would be unreasonably expensive and impractical, the Secretary of Defense waived the live fire testing requirement in 2004 and submitted a certification of that determination to Congress. The CVN 78 Class LFT&E Management Plan details the testing, modeling and simulation, and engineering analyses that are being used to determine whether CVN 78 Class ships will be able to survive and carry out their missions against the threat weapons identified in the Surface Ship Capstone System Threat Assessment Report (CSTAR) that are likely to be encountered in combat. The results of these tests and analyses are documented in periodic Vulnerability Assessment Reports (VARs).

The CVN 78 Class VAR 3 was completed in the summer of 2007 and the CVN 78 Class VAR 4 is scheduled to be completed in FY 2018.

This PU's efforts moved to PE 0604112N PU 2208 for FY 2024 and later.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: CVN 21 LFT&E	3.943	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2024 Plans: N/A					
FY 2025 Base Plans: N/A					
FY 2025 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	3.943	0.000	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 0604567N / <i>Ship Contract Design/ Live Fire T&E</i>				Project (Number/Name) 4007 / CVN 21 LFT&E			

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

Line Item	FY 2023	FY 2024	FY 2025	FY 2025	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	Cost To	
			Base	OCO	Total					Complete	Total Cost
• RD TEN / 0604112N: <i>Project Units 2208, 4004, 9999</i>	112.504	118.182	96.670	-	96.670	113.761	112.807	58.679	59.733	Continuing	Continuing
• SCN / 2001: <i>Carrier Replacement Program</i>	1,465.880	1,115.296	1,186.873	-	1,186.873	1,135.378	1,582.108	2,574.201	2,744.200	Continuing	Continuing
• SCN / 2004: <i>CVN 81</i>	1,052.024	800.492	721.045	-	721.045	2,052.709	2,569.131	2,068.582	0.000	0.000	14,015.634
• SCN / 5300: <i>Completion of PY Shpbldg Progr</i>	461.700	624.600	236.000	-	236.000	0.000	0.000	0.000	0.000	0.000	3,079.160
• OPN / 5664: <i>Surface Training Equipment</i>	2.468	2.430	2.474	-	2.474	2.649	2.701	2.759	2.816	Continuing	Continuing
• OMN / 1B2B: <i>CVN 78 Ford Class Training and Sustainment</i>	5.457	6.064	6.129	-	6.129	6.222	6.258	6.230	6.360	Continuing	Continuing
• OMN / 1B5B: <i>Ford Class PCU Housing</i>	4.421	15.587	13.584	-	13.584	0.800	10.600	10.812	11.039	Continuing	Continuing

Remarks

D. Acquisition Strategy

The CVN 78 is the first ship of the CVN 78 Class of aircraft carriers designed to replace USS ENTERPRISE and the ships of the NIMITZ Class. The CVN 78 will feature a new nuclear propulsion and electrical generation/distribution system, new electromagnetic aircraft launching system (EMALS), advanced arresting gear (AAG) system, all electric auxiliaries, warfare system improvements, survivability enhancements, improved weapons handling, and improved aircraft servicing. These design features will result in lower manpower and total ownership costs as compared to the NIMITZ Class. Additionally, the following war fighting benefits will be realized: increased sortie generation rate, improved ship self-defense capability, increased launch and recovery capability/flexibility, increased operational availability, and increased flexibility to support future upgrades.

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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 0604567N / Ship Contract Design/ Live Fire T&E				4007 / CVN 21 LFT&E							
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
Live Fire Test & Evaluation (LFT&E)	WR	NSWC Carderock : MD	74.174	2.231	Nov 2022	0.000		0.000		-		0.000	0.000	76.405	-
Live Fire Test & Evaluation (LFT&E)	C/CPAF	HII : VA	14.126	0.750	Nov 2022	0.000		0.000		-		0.000	0.000	14.876	-
Live Fire Test & Evaluation (LFT&E)	WR	NSWC Dahlgren : VA	0.834	0.426	Nov 2022	0.000		0.000		-		0.000	0.000	1.260	-
Live Fire Test & Evaluation (LFT&E)	WR	NAWCAD PAX RIVER : MD	0.093	0.233	Oct 2022	0.000		0.000		-		0.000	0.000	0.326	-
Live Fire Test & Evaluation (LFT&E)	WR	NSWC Philadelphia : PA	0.000	0.303	Oct 2022	0.000		0.000		-		0.000	0.000	0.303	-
Prior Year Live Fire Test & Evaluation Not Funded FYDP (PYLFT&E)	Various	VARIOUS : VARIOUS	0.201	0.000		0.000		0.000		-		0.000	0.000	0.201	-
Subtotal			89.428	3.943		0.000		0.000		-		0.000	0.000	93.371	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
Prior Year Management Services No Longer Funded in the FYDP	Various	VARIOUS : VARIOUS	0.010	0.000		0.000		0.000		-		0.000	0.000	0.010	-
Subtotal			0.010	0.000		0.000		0.000		-		0.000	0.000	0.010	N/A
Project Cost Totals			89.438	3.943		0.000		0.000		-		0.000	0.000	93.381	N/A
Remarks															

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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 0604567N / <i>Ship Contract Design/ Live Fire T&E</i>	Project (Number/Name) 4007 / CVN 21 LFT&E

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 4007				
CVN 21 LFT&E	1	2023	4	2029