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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 0604454N / LX (R)
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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	124.215	18.830	21.319	12.785	-	12.785	36.010	16.488	15.666	15.985	Continuing	Continuing
2474: <i>LPD Flight II Design & Total Integration</i>	124.215	18.830	21.319	12.785	-	12.785	36.010	16.488	15.666	15.985	Continuing	Continuing

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 542

A. Mission Description and Budget Item Justification

LPD 17 Flight II will replace LSD-41 Class ships and LSD-49 Class ships for embark, transport, control, insert, sustainment, and extract of Marine Air-Ground Task Force elements and supporting forces by helicopters, landing craft, and amphibious vehicles. This project includes efforts to reduce the cost of building and repairing ships, resolving obsolescence issues, and improving shipbuilding industry productivity through: advanced technology and processes with emphasis towards developing ship hull, mechanical, propulsion, electrical, aviation, warfare system, combat support system, sub-systems and components to maintain manpower, survivability, operational capabilities, and pursue affordability initiatives. This program element includes the planning & documentation for Developmental Test and Evaluation (DT&E), Live Fire Test & Evaluation (LFT&E), Operational Evaluation (OPEVAL), and Follow-on Operational Test and Evaluation (FOT&E) tests required for LPD 17 Flight II. These test events will be conducted on the lead Flight II Ship (LPD 30) or where configuration supports capabilities on earlier ships (LPD 28 or LPD 29).

Per signed Acquisition Decision Memorandum, LPD 17 Flight II will meet the Capabilities Development Document for LX(R) and shall subsume all previous LX(R) efforts. Name change endorsed in JROCM 093-21, from "Amphibious Ship Replacement LX(R)" to "LPD 17 San Antonio Class Amphibious Transport Dock FLT II." LPD 30 is the first ship of LPD 17 Flight II.

B. Program Change Summary (\$ in Millions)	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	18.830	21.319	15.434	-	15.434
Current President's Budget	18.830	21.319	12.785	-	12.785
Total Adjustments	0.000	0.000	-2.649	-	-2.649
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	-2.657	-	-2.657
• Rate/Misc Adjustments	0.000	0.000	0.008	-	0.008

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<u>Change Summary Explanation</u> Funding Change: The FY 2025 funding request was decreased from FY24 to FY25 due to planned operational test events in FY24, and the completion of first in class non-recurring engineering and common rail modification development of the engineering control system (ECS). Program Schedule Changes (0604454N / PU 2474): The previously reported Development Test and Evaluation Phase schedule was incorrectly displayed. The schedule has been updated to correctly reflect the program's DT&E phase. Program Schedule Changes (LI 3010): LPD 32 delivery date reflects negotiated contract timeline. LPD 33 DD&C award was added to FY 2025.		

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

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604454N / LX (R)	Project (Number/Name) 2474 / LPD Flight II Design & Total Integration
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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
2474: LPD Flight II Design & Total Integration	124.215	18.830	21.319	12.785	-	12.785	36.010	16.488	15.666	15.985	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 542

A. Mission Description and Budget Item Justification

LPD 17 Flight II will replace LSD-41 Class ships and LSD-49 Class ships for embark, transport, control, insert, sustainment, and extract of Marine Air-Ground Task Force elements and supporting forces by helicopters, landing craft, and amphibious vehicles. This project includes efforts to reduce the cost of building and repairing ships, resolving obsolescence issues, and improving shipbuilding industry productivity through: advanced technology and processes with emphasis towards developing ship hull, mechanical, propulsion, electrical, aviation, warfare system, combat support system, sub-systems and components to maintain manpower, survivability, operational capabilities, and pursue affordability initiatives. This program element includes the planning & documentation for Developmental Test and Evaluation (DT&E), Live Fire Test & Evaluation (LFT&E), Operational Evaluation (OPEVAL), and Follow-on Operational Test and Evaluation (FOT&E) tests required for LPD 17 Flight II. These test events will be conducted on the lead Flight II Ship (LPD 30) or where configuration supports capabilities on earlier ships (LPD 28 or LPD 29).

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: LPD Flight II DESIGN/TOTAL SHIP INTEGRATION	18.830	21.319	12.785	0.000	12.785
Articles:	-	-	-	-	-
FY 2024 Plans:					
Focus on planning efforts for testing in FY25-27:					
- Begin FOT&E efforts for the EASR/Self Defense, including the Plans, Exercises, Targets, and Missiles.					
- FOT&E Surface Warfare (SUW) Planning resulting from updated boat/craft threat and resolve the updated Flight II SUW capability requirement.					
- Cybersecurity Test Planning and conducting the manpower and equipment intensive Cyber Cooperative Vulnerability Identification (CVI) and Adversarial Cyber DT&E (ACD) for each LPD Network Enclave.					
- Interoperability Test Planning (NR-KPP).					
- Overall test support, documentation/plans (TEMP), coordination, and event conduct support.					
Efforts will also focus on implementation of new GFE/CFE on new construction LPDs:					
- Assessment of HERO/HERP for EASR, SPY-6(V)2 and other associated radar-to-ship integration activities for the new radar.					

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Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604454N / LX (R)	Project (Number/Name) 2474 / LPD Flight II Design & Total Integration

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<p>- Cybersecurity risk assessments, validation, and approvals under RMF process for new systems.</p> <p>- Qualification of systems/equipment impacted by obsolescence such as shock, vibration, and EMI for new systems.</p> <p>- Alternative LFT&E assessments and evaluation tools for affordable assessment vs. full scale test.</p> <p>Continue Software Support Activity/ Development & Integration for management and evaluation of new/unique LPD HM&E systems, networks, and control systems.</p> <p>FY 2025 Base Plans: Focus on continuation of planning efforts and begin initial execution for testing in FY25-27:</p> <ul style="list-style-type: none"> - Completion of FOT&E SUW Planning in preparation for testing in FY27. - Continue FOT&E efforts for the EASR/Self Defense, including the Plans, Exercises, Targets, and Missiles. - Cybersecurity Test Planning and conducting the manpower and equipment intensive Cyber Cooperative Vulnerability Identification (CVI) and Adversarial Cyber DT&E (ACD) for additional LPD Network Enclaves. - Interoperability Test Planning and initial year of test execution (NR-KPP). - Overall test support, documentation/plans (TEMP), coordination, and event conduct support. <p>Efforts will also focus on implementation of new GFE/CFE on new construction LPDs:</p> <ul style="list-style-type: none"> - Continuation of assessment of HERO/HERP for ship, aircraft, and weapons integration with EASR, SPY-6(V)2 and other associated radar-to-ship integration activities for the new radar. - Cybersecurity risk assessments, validation, and approvals under RMF process for new, modified, or continued fielding of LPD unique systems. - Qualification of systems/equipment impacted by obsolescence such as shock, vibration, and EMI for new systems. - Study of obsolescence cases and resolution of emergent items identified under DMSMS/Obsolescence working groups. - Study and assessments of ship impacts due to GFE system obsolescence and technology refresh, including Configuration Management and Concurrent Engineering activities. <p>Continue Software Support Activity/ Development & Integration for management and evaluation of new/unique LPD HM&E systems, networks, and control systems.</p> <p>FY 2025 OCO Plans:</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604454N / LX (R)	Project (Number/Name) 2474 / LPD Flight II Design & Total Integration

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A					
<i>FY 2024 to FY 2025 Increase/Decrease Statement:</i> Funding Change: The FY 2025 funding request was decreased from FY24 to FY25 due to planned operational test events in FY24, and the completion of first in class non-recurring engineering and common rail modification development of the engineering control system (ECS).					
Accomplishments/Planned Programs Subtotals	18.830	21.319	12.785	0.000	12.785

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/3010: LPD Flight II	1,923.000	0.000	1,581.121	-	1,581.121	295.742	1,819.450	297.850	1,894.000	0.000	11,834.800
• SCN/5300: Completion of PY Shpbldg Progr	0.000	0.000	19.158	-	19.158	45.742	21.450	22.850	0.000	0.000	109.200

Remarks

D. Acquisition Strategy

Sole Source to Huntington Ingalls Industries.

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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 0604454N / LX (R)					Project (Number/Name) 2474 / LPD Flight II Design & Total 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
Design/Systems Integration	WR	NAVSEALOGCEN : Mechanicsburg, PA	0.647	0.000		0.000		0.000		-		0.000	0.000	0.647	-
Design/Systems Integration	WR	PEO C4I/IWS : Washington, DC	7.474	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Design/Systems Integration Support	C/CPFF	General Dynamics : San Diego, CA	13.066	0.000		0.000		0.000		-		0.000	0.000	13.066	-
Design/Systems Integration	WR	NAWC Lakehurst : Lakehurst, NJ	2.105	0.000		0.000		0.000		-		0.000	0.000	2.105	-
Design/Systems Integration Support	C/CPFF	HII : Pascagoula, MS	22.000	0.211	Apr 2023	0.175	Dec 2023	1.158	Dec 2024	-		1.158	0.000	23.544	-
Design/Systems Integration Support	C/CPIF	Various : Washington, DC	32.928	0.701	Mar 2023	0.492	Dec 2023	0.202	Dec 2024	-		0.202	0.000	34.323	-
Design/Systems Integration	WR	NSWC : Bethesda, MD/Philadelphia, PA	34.163	7.783	Mar 2023	8.165	Dec 2023	6.201	Dec 2024	-		6.201	Continuing	Continuing	Continuing
Design/Systems Integration	WR	NSWC : Various	6.677	4.705	Mar 2023	4.088	Dec 2023	0.788	Dec 2024	-		0.788	0.000	16.258	-
Subtotal			119.060	13.400		12.920		8.349		-		8.349	Continuing	Continuing	N/A

Remarks
Product development decreased from FY24 to FY25 due to the completion of first in class non-recurring engineering and common rail modification development of the engineering control system (ECS).

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)	C/CPIF	Various : Washington, DC	1.902	0.485	Mar 2023	0.466	Dec 2023	0.700	Dec 2024	-		0.700	0.000	3.553	-
Developmental Test & Evaluation (DT&E)	C/BA	COTF : Norfolk, VA	0.560	0.854	May 2023	0.197	Dec 2023	0.270	Dec 2024	-		0.270	0.000	1.881	-
Developmental Test & Evaluation (DT&E)	MIPR	JITC/MCOTEA : Various	0.025	0.095	Apr 2023	0.103	Dec 2023	0.111	Dec 2024	-		0.111	0.000	0.334	-

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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 0604454N / LX (R)					Project (Number/Name) 2474 / LPD Flight II Design & Total Integration				

Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation (DT&E)	WR	NSWC : Bethesda, MD/Philadelphia, PA	1.680	0.315	Mar 2023	0.332	Dec 2023	0.575	Dec 2024	-		0.575	0.000	2.902	-
Developmental Test & Evaluation (DT&E)	WR	NAVAIR : Various	0.788	1.798	Mar 2023	0.392	Dec 2023	0.000		-		0.000	0.000	2.978	-
Operational Test & Evaluation (OT&E)	WR	NSWC : Various	0.000	0.000		5.541	Dec 2023	0.845	Dec 2024	-		0.845	0.000	6.386	-
Operational Test & Evaluation (OT&E)	TBD	TBD : TBD	0.000	0.953	Mar 2023	0.929	Dec 2023	0.950	Dec 2024	-		0.950	0.000	2.832	-
Live Fire Test & Evaluation (LFT&E)	WR	NSWC : Various	0.200	0.930	Mar 2023	0.439	Dec 2023	0.985	Dec 2024	-		0.985	0.000	2.554	-
Subtotal			5.155	5.430		8.399		4.436		-		4.436	0.000	23.420	N/A

Remarks
Test and Evaluation decreased from FY24 to FY25 due to planned operational test events in FY24.

	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	124.215	18.830	21.319	12.785	-	12.785	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 / 4	R-1 Program Element (Number/Name) PE 0604454N / LX (R)	Project (Number/Name) 2474 / LPD Flight II Design & Total Integration
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Fiscal Year	FY23				FY24				FY25				FY26				FY27				FY28				FY29			
Quarter	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
Acquisition Milestones	<p>The chart shows a horizontal line spanning from the start of FY23 to the end of FY29. Milestones are marked with orange triangles:</p> <ul style="list-style-type: none"> FY23 Q2: LPD 32 DD&C Award FY25 Q3: LPD 33 DD&C Award FY26 Q3: LPD 30 Delivery FY27 Q3: LPD 34 DD&C Award FY28 Q2: LPD 31 Delivery FY29 Q4: LPD 32 Delivery FY29 Q4: LPD 35 DD&C Award 																											
Product Development																												
DT&E																												
OT&E																												
LFT&E																												

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 2474				
Developmental Test and Evaluation Phase	1	2023	2	2029
Operational Test and Evaluation Begins	1	2023	4	2029
Live Fire Test and Evaluation Phase	1	2023	4	2028