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**Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319: Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development	<b>R-1 Program Element (Number/Name)</b> PE 0204413N / Amphibious Tactical Supt Units
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	70.320	1.672	1.657	1.789	-	1.789	2.200	1.972	1.851	1.888	Continuing	Continuing
2231: LCAC / LCU 1700	59.085	0.969	1.158	1.279	-	1.279	1.686	1.459	1.328	1.354	Continuing	Continuing
2477: NECC Additive Manufacturing	0.000	0.478	0.499	0.510	-	0.510	0.514	0.513	0.523	0.534	Continuing	Continuing
2909: Amphibious Lighterage Development	11.235	0.225	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	11.460

**Note**

The FY 2023 funding request was reduced by \$0.385 million due to the availability of prior year execution balances.

**A. Mission Description and Budget Item Justification**

Landing Craft, Air Cushion (LCAC): Research and development efforts to transfer technologies into functional uses on the current LCACs. Current technology initiatives include sustainability/reliability/readiness/performance analyses, LCAC communication improvements, compliance with Cybersecurity policy regulations, and LCAC Total Ownership Costs (TOC) reduction initiatives.

Landing Craft, Utility (LCU 1700): Replacement program for the current LCU 1610 class craft - a class of craft that has exceeded its 25-year planned service life by nearly double, average age of craft is approaching 50-years-old. LCU 1700 will provide similar payload, range, speed, and interoperability. Detail design contract awarded Q2 FY18.

The Amphibious Support Craft Vehicle (ASCV) which will be the Lighter Amphibious Resupply Cargo, 5 ton (LARC-V) Replacement, provides amphibious equipment and personnel transport as well as near shore salvage and diving capability.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2023 Navy	<b>Date:</b> April 2022
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<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0204413N / <i>Amphibious Tactical Supt Units</i>
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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
Previous President's Budget	1.706	1.657	0.000	-	0.000
Current President's Budget	1.672	1.657	1.789	-	1.789
Total Adjustments	-0.034	0.000	1.789	-	1.789
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.034	0.000			
• Program Adjustments	0.000	0.000	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	1.789	-	1.789

**Change Summary Explanation**

The FY 2022 funding request was reduced by \$0.385 million to account for the availability of prior year execution balances.

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FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0204413N / <i>Amphibious Tactical Supt Units</i>	<b>Project (Number/Name)</b> 2231 / LCAC / LCU 1700
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
2231: LCAC / LCU 1700	59.085	0.969	1.158	1.279	-	1.279	1.686	1.459	1.328	1.354	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

Landing Craft, Air Cushion (LCAC): Research and development efforts to transfer technologies into functional uses on the current LCACs. Ongoing technology initiatives include sustainability/reliability/readiness/performance analyses, LCAC communication improvements, Cybersecurity policy regulations compliance, and LCAC Total Ownership Costs (TOC) reduction initiatives.

Landing Craft, Utility (LCU 1700): Replacement program for the current LCU 1610 class craft - a class of craft that has exceeded its 25-year planned service life by nearly double, average age of craft is approaching 50-years-old. LCU 1700 will provide similar payload, range, speed, and interoperability. Detail design contract awarded Q2 FY18.

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Title:</b> LCAC and LCU 1700 RDT&E,N	0.969	1.158	1.279	0.000	1.279
<b>Articles:</b>	-	-	-	-	-
<b>FY 2022 Plans:</b>					
LCAC:					
- Continue to improve reliability and maintainability of the LCAC Hull, Mechanical & Electrical (HM&E) systems.					
- Maintain compliance with cybersecurity directives and mandates.					
LCU:					
- Conduct risk reduction efforts, which support Life Cycle/Total Ownership Cost (TOC) reductions for the class.					
- Conduct and Support Developmental Testing & Operational Testing (DT/OT).					
<b>FY 2023 Base Plans:</b>					
LCAC:					
- Continue to improve reliability and maintainability of the LCAC Hull, Mechanical & Electrical (HM&E) systems.					
- Maintain compliance with cybersecurity directives and mandates.					
LCU:					
- Conduct risk reduction efforts, which support Life Cycle/Total Ownership Cost (TOC) reductions for the class.					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0204413N / <i>Amphibious Tactical Supt Units</i>	<b>Project (Number/Name)</b> 2231 / LCAC / LCU 1700

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
- Conduct and Support Developmental Testing & Operational Testing (DT/OT).					
<b><i>FY 2023 OCO Plans:</i></b> N/A					
<b><i>FY 2022 to FY 2023 Increase/Decrease Statement:</i></b> Increase due to delivery of LCU 1700, funding needed to continue test and development of craft.					
<b>Accomplishments/Planned Programs Subtotals</b>	0.969	1.158	1.279	0.000	1.279

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPN 0970: LCAC	6.758	21.314	17.452	-	17.452	17.611	18.140	19.784	20.169	0.000	252.355
• SCN 5139: LCAC SLEP	56.461	32.712	36.301	-	36.301	53.596	55.117	56.123	57.242	0.000	1,765.957
• SCN 5100: LCU 1700	87.395	67.928	0.000	-	0.000	38.497	58.891	67.815	67.853	115.350	662.867

**Remarks**

**D. Acquisition Strategy**

Multiple contracts and Field Activities are involved to complete the various projects.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy												Date: April 2022				
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)								
1319 / 7				PE 0204413N / Amphibious Tactical Supt Units				2231 / LCAC / LCU 1700								
<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	
LCAC - Component Development	WR	NSWC CD : Philadelphia, PA	8.325	0.000		0.000		0.000		-		0.000	0.000	8.325	-	
LCAC - Systems Engineering	WR	NSWC : Various	7.917	0.200	Jan 2021	0.184	Jan 2022	0.200	Jan 2023	-		0.200	Continuing	Continuing	Continuing	
LCU - Special Studies	Various	Various : Various	3.840	0.000		0.000		0.000		-		0.000	0.000	3.840	-	
LCU - Ship Design	WR	NSWC : Various	18.995	0.000		0.061	Dec 2021	0.000		-		0.000	Continuing	Continuing	Continuing	
<b>Subtotal</b>			39.077	0.200		0.245		0.200		-		0.200	Continuing	Continuing	N/A	
<b>Support (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	
LCAC - Technical Engineering Services	WR	NSWC PCD : Panama City, FL	12.700	0.000		0.000		0.000		-		0.000	0.000	12.700	-	
LCU - Research Studies	Various	Various : Various	0.565	0.091	Jan 2021	0.125	Dec 2021	0.125	Dec 2022	-		0.125	0.000	0.906	-	
<b>Subtotal</b>			13.265	0.091		0.125		0.125		-		0.125	0.000	13.606	N/A	
<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	
LCAC - Developmental Test & Evaluation	WR	Various : Various	0.287	0.000		0.000		0.000		-		0.000	0.000	0.287	-	
LCAC - Operational Test & Evaluation	WR	NSWC PCD : Panama City, FL	2.047	0.000		0.000		0.000		-		0.000	0.000	2.047	-	
LCAC - Test Assets	WR	NSWC PCD : Panama City, FL	0.850	0.000		0.000		0.000		-		0.000	0.000	0.850	-	
LCU - Developmental Test & Evaluation	WR	Various : Various	0.842	0.320	Jan 2021	0.396	Dec 2021	0.404	Nov 2022	-		0.404	Continuing	Continuing	Continuing	
LCU - Operational Test & Evaluation	WR	Various : Various	0.553	0.228	Jan 2021	0.250	Nov 2021	0.514	Nov 2022	-		0.514	Continuing	Continuing	Continuing	



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**Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0204413N / <i>Amphibious Tactical Supt Units</i>	<b>Project (Number/Name)</b> 2231 / LCAC / LCU 1700
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FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
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

<b>Proj 2231</b>	
LCAC - Technology Initiatives	
LCU 1700 - Integrated Developmental / Operational Testing	
LCU 1700 - Sustainment Technology Initiatives	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0204413N / <i>Amphibious Tactical Supt Units</i>	<b>Project (Number/Name)</b> 2231 / LCAC / LCU 1700

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2231</b>				
LCAC - Technology Initiatives	1	2021	4	2027
LCU 1700 - Integrated Developmental / Operational Testing	1	2021	4	2023
LCU 1700 - Sustainment Technology Initiatives	2	2021	4	2027

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Navy										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 1319 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0204413N / <i>Amphibious Tactical Supt Units</i>				<b>Project (Number/Name)</b> 2477 / <i>NECC Additive Manufacturing</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
2477: <i>NECC Additive Manufacturing</i>	0.000	0.478	0.499	0.510	-	0.510	0.514	0.513	0.523	0.534	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

In accordance with the National Defense Strategy (NDS), A Design for Maintaining Maritime Superiority 2.0, and Navy Facility Command (NAVFAC) Strategic Design 2.0, this program provides the Navy with new capabilities to enable resilient and agile logistics thru additive manufacturing (AM). Investing in AM enhances the fleet's ability to conduct operational logistics in a contested environment, and ensures logistics supportability across the austere distributed battlespace. AM technology results in increased operational availability, on demand production of critical systems, and supply chain cost savings. This effort will identify critical parts suitable for AM production in the field; identify AM systems appropriate to produce and certify critical parts in the field; analyze and identify AM system implications across doctrine, organization, training, materiel, leadership and education, personnel, facilities and policy (DOTMLPF-P); conduct end-user training, field experimentation, and fleet exercise technology insertion to validate AM system capability and systems integration issues.

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

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>
<b>Title:</b> NECC Additive Manufacturing	0.478	0.499	0.510	0.000	0.510
<b>Articles:</b>	-	-	-	-	-
<b>FY 2022 Plans:</b> - Develop Navy Expeditionary Combat Force (NECF) AM digital infrastructure via Authority to Operate (ATO) and data repository development; continue user group training or new AM systems; develop qualification and certification processes; develop engineering reach back support for fleet evaluation of AM systems.					
<b>FY 2023 Base Plans:</b> - Begin development of Universal Facility Criteria for AM Construction; complete NECF AM IT systems ATO; complete NECC NIPR file repository; complete NAVFAC AM Policy development; perform a Business Case Analysis of AM in Expeditionary Maintenance Centers; complete an Advanced Mfg System CDD; continue other developmental efforts as noted in FY22.					
<b>FY 2023 OCO Plans:</b> N/A					
<b>FY 2022 to FY 2023 Increase/Decrease Statement:</b> Increase of 0.011K from FY 2022 to FY 2023 is due to increase in labor costs.					
<b>Accomplishments/Planned Programs Subtotals</b>	0.478	0.499	0.510	0.000	0.510

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0204413N / <i>Amphibious Tactical Supt U nits</i>	<b>Project (Number/Name)</b> 2477 / <i>NECC Additive Manufacturing</i>

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

N/A

**Remarks**

**D. Acquisition Strategy**

The projects identified in this budget have been carefully selected to respond to a series of extended user evaluations of commercial off the shelf (COTS) equipment by the warfighter with the goal of developing requirements for future additive manufacturing capabilities that will meet unique logistics alternatives. This effort will be executed by members of the expeditionary programs office in collaboration with various naval warfare centers and partners in the expeditionary additive manufacturing community of practice, and in conjunction with end users at the appropriate Type Commands. By working through the previously described sequence of analysis and experimental validation, we will identify the appropriate systems for in-field additive manufacturing while simultaneously informing end-user requirements development and program office acquisition plans..



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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2023 Navy</b>		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0204413N / <i>Amphibious Tactical Supt U</i> <i>nits</i>	<b>Project (Number/Name)</b> 2477 / <i>NECC Additive Manufacturing</i>

FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
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

<b>Proj 2477</b>	
Operational Evaluation	
Test Plan and Analysis	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0204413N / <i>Amphibious Tactical Supt Units</i>	<b>Project (Number/Name)</b> 2477 / <i>NECC Additive Manufacturing</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2477</b>				
Operational Evaluation	1	2021	4	2026
Test Plan and Analysis	1	2021	4	2026

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**Exhibit R-2A, RDT&E Project Justification:** PB 2023 Navy **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0204413N / <i>Amphibious Tactical Supt Units</i>	<b>Project (Number/Name)</b> 2909 / <i>Amphibious Lighterage Development</i>
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COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
2909: <i>Amphibious Lighterage Development</i>	11.235	0.225	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	11.460
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Amphibious Lighterage Development, which will be the Lighter Amphibious Resupply Cargo, 5 ton (LARC-V) Replacement, provides amphibious equipment and personnel transport as well as near shore salvage and diving capability. A system of systems approach is being researched as an alternative to a direct LARC-V Replacement. The capability required is vital for the execution of the Naval Beach Group (NBG) and Underwater Construction Team (UCT) missions of Ship to shore transport and near shore salvage.

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

	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
<b>Title:</b> LARC-V Replacement	0.225	0.000	0.000	0.000	0.000
<b>Articles:</b>	-	-	-	-	-
<b>FY 2022 Plans:</b> Project ends FY21					
<b>FY 2023 Base Plans:</b> N/A					
<b>FY 2023 OCO Plans:</b> N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	0.225	0.000	0.000	0.000	0.000

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

N/A

**Remarks**

**D. Acquisition Strategy**

RDT&E funding is required to develop a replacement amphibious vehicle to support Operational Plan and Required Operational Capability/Potential Operating Environment (ROC/POE) requirements of the Naval Beach Groups and Underwater Construction Teams. Technology investigation began in FY15. In FY19, a one for one like in kind replacement of the LARC-V was determined not affordable. An alternative system of systems approach is now being pursued with a near term focus being on two of the seven original capabilities. The two capabilities are (1)boat lane preparation and (2)personnel and equipment transport. Requirements

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0204413N / <i>Amphibious Tactical Supt U nits</i>	<b>Project (Number/Name)</b> 2909 / <i>Amphibious Lighterage Development</i>

documentation and other such documentation efforts are largely being accomplished with in house resources. Procurement of prototypes accomplished via competitive other transaction authority (OTA).

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0204413N / <i>Amphibious Tactical Supt U nits</i>	<b>Project (Number/Name)</b> 2909 / <i>Amphibious Lighterage Development</i>
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<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
LARC-V Replacement	WR	Naval Surface Warfare Center Carderock Division (N : West Bethesda, MD)	3.713	0.000		0.000		0.000		-		0.000	0.000	3.713	0.200
Boat Lane Preparation	Various	EDRC : Duck, North Carolina	2.670	0.000		0.000		0.000		-		0.000	0.000	2.670	-
Personnel Transport	C/BA	Denfense Innovation Unit : Mountview, CA	4.300	0.000		0.000		0.000		-		0.000	0.000	4.300	-
<b>Subtotal</b>			10.683	0.000		0.000		0.000		-		0.000	0.000	10.683	N/A

**Remarks**  
Project completes at the end of FY 2021.

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
Operational Testing	WR	EXWC : Port Hueneme, CA	0.300	0.225	Jul 2021	0.000		0.000		-		0.000	0.000	0.525	-
<b>Subtotal</b>			0.300	0.225		0.000		0.000		-		0.000	0.000	0.525	N/A

**Remarks**  
Project completes at the end of FY 2021.

<b>Management Services (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			
In house Program Management	Sub Allot	Not Specified : Not Specified	0.252	0.000		0.000		0.000		-		0.000	0.000	0.252	-
<b>Subtotal</b>			0.252	0.000		0.000		0.000		-		0.000	0.000	0.252	N/A





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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2023 Navy		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0204413N / <i>Amphibious Tactical Supt Units</i>	<b>Project (Number/Name)</b> 2909 / <i>Amphibious Lighterage Development</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 2909</b>				
Boat Lane Preparation: Ariel Bathometry Mapping Technology Demonstration	1	2021	4	2021
Boat Lane Preparation: Prototype Development	1	2021	4	2021
Boat Lane Preparation: Test and Evaluate Prototype	1	2021	4	2021
Personnel and Equipment Transport: Prototype Procurement	1	2021	4	2021
Personnel and Equipment Transport: Prototype Development	2	2021	4	2021
Personnel and Equipment Transport: Test and Evaluate Prototype	1	2021	4	2021