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**Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy** **Date:** February 2016

<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							
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	28.862	5.522	11.335	13.929	-	13.929	1.646	1.162	1.205	1.244	Continuing	Continuing
2231: LCAC / LCU 1700	28.862	4.940	11.335	10.536	-	10.536	1.646	1.162	1.205	1.244	Continuing	Continuing
2909: Amphibious Lighterage Development	0.000	0.582	0.000	3.393	-	3.393	0.000	0.000	0.000	0.000	0.000	3.975

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

Landing Craft Air Cushion (LCAC) Technology Transition: Provides for research and development efforts on LCAC Future Naval Capabilities to transfer technologies to functional uses on current LCACs. Current technology initiatives include sustainability/readiness/performance analyses, LCAC communication improvements, development and qualification of Full Authority Digital Engine Controller (FADEC) for LCAC engines, new torque meter design for LCAC ETF40B engines, Marine Rotor Active Balancing System (MRABS), and LCAC fuel efficiency initiatives.

LCU 1700 (formerly Surface Connector X Replacement (SC(X)(R))): Replacement program for the current Landing Craft Utility (LCU) 1610 class craft - a class of craft that has significantly exceeded its 20-year planned service life. LCU 1700 will provide similar payload, range, speed, and interoperability. Procurement is currently scheduled to begin in FY16.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Previous President's Budget	4.609	11.335	8.900	-	8.900
Current President's Budget	5.522	11.335	13.929	-	13.929
Total Adjustments	0.913	0.000	5.029	-	5.029
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	0.915	0.000			
• SBIR/STTR Transfer	-0.002	0.000			
• Program Adjustments	0.000	0.000	4.923	-	4.923
• Rate/Misc Adjustments	0.000	0.000	0.106	-	0.106

**Change Summary Explanation**

FY 2015 changes reflect an increase of \$0.915 million to support the definition of requirements and Analysis of Alternatives (AoA) which would enable the LCAC to transport and perform at-sea launch of legacy and future United States Marine Corps (USMC) vehicles and a reduction of \$0.002 million for SBIR transfer.

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<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>	
FY 2017 request reflects an increase of \$2 million for Landing Craft Replacement (formerly SC(X)(R)), \$3.500 million increase for Lighter Amphibious Resupply Cargo Vehicle (LARC-V) Replacement, \$0.106 million increase for rates/miscellaneous adjustments, and a reduction of \$0.577 million for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.		

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**Exhibit R-2A, RDT&E Project Justification:** PB 2017 Navy **Date:** February 2016

<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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
2231: LCAC / LCU 1700	28.862	4.940	11.335	10.536	-	10.536	1.646	1.162	1.205	1.244	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

Landing Craft Air Cushion (LCAC) Technology Transition: Provides for research and development efforts on LCAC Future Naval Capabilities to transfer technologies to functional uses on current LCACs. Current technology initiatives include sustainability/readiness/performance analyses, LCAC communication improvements, development and qualification of Full Authority Digital Engine Controller (FADEC) for LCAC engines, new torque meter design for LCAC ETF40B engines, Marine Rotor Active Balancing System (MRABS), and LCAC fuel efficiency initiatives.

LCU 1700 (formerly SC (X)(R)): Replacement program for the current Landing Craft Utility (LCU) 1610 class craft - a class of craft that has significantly exceeded its 20-year planned service life. LCU 1700 will provide similar payload, range, speed, and interoperability. Procurement is currently scheduled to begin in FY16.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<b>Title:</b> LCAC RDT&E,N and LCU 1700	4.940	11.335	10.536	0.000	10.536
<b>Articles:</b>	-	-	-	-	-
<b>FY 2015 Accomplishments:</b>					
FY15 LCAC: Performed full-scale testing of all-in-one LCAC power supply capable of charging craft batteries, powering 28VD electronics and providing 60Hz 115VAC power. Improved the reliability of the LCAC.					
FY15 LCU 1700: Completed requirements documentation; continued Preliminary Design (PD) / Contract Design (CD) and Test and Evaluation Master Plan (TEMP) development; conducted System Functional Review (SFR); initiated Life Cycle Sustainment Plan (LCSP) development; began integrated development /operational testing; Capability Development Document (CDD) pending approval.					
<b>FY 2016 Plans:</b>					
FY16 LCAC: Develop technologies to prevent moisture intrusion into craft windows; develop auxiliary power unit controller to improve visibility and equipment reliability. Improve the reliability of the LCAC and harden main engines against marine corrosion. Address electronic charting requirements and meet Windows operating system IA requirements. Complete development of LCAC equipment and procedures which maximize the sea state in which Marine Amphibious Assault Vehicles (ACVs) can be launched from a waterborne LCAC.					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<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 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
<p>FY16 LCU 1700: Transition from Preliminary Design (PD) to Contract Design (CD) efforts. CD efforts are the next iteration of shipbuilding design, requiring significantly greater detail in order to support the effective translation of the engineering decisions and findings from the PD into a biddable technical package, including specifications and contract guidance drawings which will allow the shipbuilders to develop competitive bids once the Request for Proposal (RFP) is released.</p> <p>Conduct supporting trade studies with Industry input, component or system prototype testing and modeling and simulation as needed to support the Contract Design (CD) effort. These efforts will be part of the integrated Developmental/Operational Testing approach.</p> <p>Continue use of Integrated Product Teams to support development of the Test and Evaluation Master Plan (TEMP) and Life Cycle Sustainment Plan (LCSP), and initiate development of the Acquisition Strategy and other supporting Milestone documentation.</p> <p><b>FY 2017 Base Plans:</b>                      FY17 LCAC: Improve reliability and maintainability of the LCAC HM&amp;E systems including testing a composite ramp to reduce maintenance and repair costs, software development and testing to improve powertrain performance, redesigning hydraulic flex lines as well as bow thruster bearings to extend MTBF, and developing and testing new methods for well deck lifting procedures. Develop updates to meet Windows 10 Operating System IA requirements and cybersecurity needs. Complete mandated migration to electronic charting. Address C4N obsolescence, usability and maintenance issues.</p> <p>FY17 LCU 1700: Provide risk reduction to the LCU 1700 design by continuing development in the following areas: perform hydrodynamic testing, to include self-propelled and maneuvering tests model tests and flow channel optimization of propulsor and rudders; modeling and simulation analysis, to include finite element analysis (FEA) and computational fluid dynamics (CFD); demonstrate full scale system level prototyping, utilizing LCU 1610 craft; and assessment of Windows 10 Operating System, IA requirements, and cybersecurity needs. These efforts will be part of the integrated Developmental/Operational Testing approach.</p> <p>Continue use of Integrated Product Teams to support development of the Test and Evaluation Master Plan (TEMP) and Life Cycle Sustainment Plan (LCSP). Continue development of Milestone documentation supporting a combined MS B/C.</p> <p><b>FY 2017 OCO Plans:</b></p>					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy	<b>Date:</b> February 2016
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<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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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	4.940	11.335	10.536	0.000	10.536

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPN 0970: LCAC	7.380	15.125	3.090	-	3.090	5.468	24.156	5.710	20.830	0.000	174.683
• SCN 5139: LCAC SLEP	40.485	80.738	1.774	-	1.774	0.000	0.000	0.000	0.000	0.000	1,340.197

**Remarks**

**D. Acquisition Strategy**  
Technology Transition - RDT&E efforts commenced in FY06. Multiple contracts and Field Activities are involved through FY21 to complete the various projects.

**E. Performance Metrics**  
FY15 LCAC: Performed full-scale testing of all-in-one LCAC power supply capable of charging craft batteries, powering 28VD electronics and providing 60Hz 115VAC power. Improved the reliability of the LCAC.

FY15 LCU 1700: Completed requirements documentation; continued Preliminary Design (PD) / Contract Design (CD) and Test and Evaluation Master Plan (TEMP) development; conducted System Functional Review (SFR); and Preliminary Design Review (PDR); initiated Life Cycle Sustainment Plan (LCSP) development; began integrated development /operational testing; Capability Development Document (CDD) pending approval.

FY 16 LCAC: Develop technologies to prevent moisture intrusion into craft windows; develop auxiliary power unit controller to improve visibility and equipment reliability. Improve the reliability of the LCAC and harden main engines against marine corrosion. Address electronic charting requirements and meet Windows operating system IA requirements. Complete development of LCAC equipment and procedures which maximize the sea state in which Marine Amphibious Assault Vehicles (ACVs) can be launched from a waterborne LCAC.

FY16 LCU 1700: Transition from Preliminary Design (PD) to Contract Design (CD) efforts. CD efforts are the next iteration of shipbuilding design, requiring significantly greater detail in order to support the effective translation of the engineering decisions and findings from the PD into a biddable technical package, including specifications and contract guidance drawings which will allow the shipbuilders to develop competitive bids once the Request for Proposal (RFP) is released.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<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
<p>Conduct supporting trade studies with Industry input, component or system prototype testing and modeling and simulation as needed to support the Contract Design effort. These efforts will be part of the integrated Developmental/Operational Testing approach.</p> <p>Continue use of Integrated Product Teams to support development of the Test and Evaluation Master Plan (TEMP) and Life Cycle Sustainment Plan (LCSP), and initiate development of the Acquisition Strategy and other supporting Milestone documentation.</p> <p>FY 2016 OCO Plans: N/A</p> <p>FY 2017 Base Plans:</p> <p>FY 17 LCAC:Improve reliability and maintainability of the LCAC HM&amp;E systems including testing a composite ramp to reduce maintenance and repair costs, software development and testing to improve powertrain performance, redesigning hydraulic flex lines as well as bow thruster bearings to extend MTBF, and developing and testing new methods for well deck lifting procedures. Develop updates to meet Windows 10 Operating System IA requirements and cybersecurity needs. Complete mandated migration to electronic charting. Address C4N obsolescence, usability and maintenance issues.</p> <p>FY17 LCU 1700:Provide risk reduction to the LCU 1700 design by continuing development in the following areas: perform hydrodynamic testing, to include self-propelled and maneuvering tests model tests and flow channel optimization of propulsor and rudders; modeling and simulation analysis, to include finite element analysis (FEA) and computational fluid dynamics (CFD); demonstrate full scale system level prototyping, utilizing LCU 1610 craft; and assessment of Windows 10 Operating System, IA requirements, and cybersecurity needs. These efforts will be part of the integrated Developmental/Operational Testing approach.</p> <p>Continue use of Integrated Product Teams to support development of the Test and Evaluation Master Plan (TEMP) and Life Cycle Sustainment Plan (LCSP). Continue development of Milestone documentation supporting a combined MS B/C.</p>		

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy** **Date:** February 2016

<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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<b>Product Development (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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			
Component Development	WR	NSWC CD : Philadelphia, PA	8.325	0.000		0.000		0.000		-		0.000	0.000	8.325	-
Systems Engineering	WR	NSWC CD : Philadelphia, PA	4.142	1.196	Feb 2015	1.222	Feb 2016	0.462	Feb 2017	-		0.462	3.296	10.318	-
LCU 1700	Various	Various : Various	4.473	1.405	Mar 2015	8.658	Mar 2016	9.524	Mar 2017	-		9.524	7.087	31.147	-
<b>Subtotal</b>			16.940	2.601		9.880		9.986		-		9.986	10.383	49.790	-

**Remarks**  
 \*\*The key events driving the growth between FY16 and FY17 Product Development include: completing trade studies and prototyping systems efforts to reduce program risk and support potential reductions in Total Ownership Cost, transitioning CD efforts and trade study/prototyping results into the biddable technical package, including updates of the earlier PD- based specifications and contract guidance drawings, finalizing the statement of work and all other required documents to support release of a Request for Proposal (RFP) package, and completion of all milestone documents in preparation for staffing for an early FY18 MS B/C decision.

<b>Support (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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			
Development Support	WR	NSWC PCD : Panama City, FL	7.377	2.074	Mar 2015	1.185	Mar 2016	0.448	Mar 2017	-		0.448	3.195	14.279	-
LCU 1700	Various	Various : Various	0.565	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
<b>Subtotal</b>			7.942	2.074		1.185		0.448		-		0.448	-	-	-

<b>Test and Evaluation (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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 T&E	WR	Various : Various	0.287	0.000		0.000		0.000		-		0.000	0.000	0.287	-
Operational T&E	WR	NSWC PCD : Panama City, FL	0.933	0.205	Mar 2015	0.209	Mar 2016	0.079	Mar 2017	-		0.079	0.565	1.991	-
Test Assets	WR	NSWC PCD : Panama City, FL	0.850	0.000		0.000		0.000		-		0.000	0.000	0.850	-





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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Navy		<b>Date:</b> February 2016
<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	2015	4	2020
LCAC/LCU 1700 RDT&E	1	2015	4	2021
Materiel Solution Analysis	1	2015	1	2015
Requirements Documentation Development	1	2015	4	2015
Preliminary Design / Contract Design	1	2015	2	2017
Test and Evaluation Master Plan (TEMP) Development	1	2015	1	2017
System Functional Review (SFR)	3	2015	3	2015
Life Cycle Sustainment Plan (LCSP) Development	1	2015	1	2017
Integrated Developmental / Operational Testing	3	2015	4	2017
Approved Capability Development Document (CDD)	4	2015	4	2015
Preliminary Design Review (PDR)	4	2017	4	2017
Early Operational Assessment (EOA)	3	2016	3	2016

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**Exhibit R-2A, RDT&E Project Justification:** PB 2017 Navy **Date:** February 2016

<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 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
2909: <i>Amphibious Lighterage Development</i>	0.000	0.582	0.000	3.393	-	3.393	0.000	0.000	0.000	0.000	0.000	3.975
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

The Sealift support amphibious vehicle which will be the Lighter Amphibious Resupply Cargo, 5 ton (LARC-V) Replacement, provides amphibious equipment and personnel transport and near shore salvage and diving capability. It is a vital piece of equipment required for the execution of the Naval Beach Group (NBG) and Underwater Construction Team (UCT) missions.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<b>Title:</b> New Accomplishment/Planned Program Entry	0.582	0.000	3.393	0.000	3.393
<b>Articles:</b>	-	-	-	-	-
<b>FY 2015 Accomplishments:</b> Commenced Technology Investigations with Naval Facilities Engineering Command (NAVFAC HQ), NAVFAC field activities and other agencies involved in this effort. Researched operational requirements and craft stability, propulsion systems, and human interface requirements for Lighter Amphibious Resupply Cargo, 5-ton (LARC-V) Replacement, and initiated Analysis of Alternatives.					
<b>FY 2016 Plans:</b> N/A					
<b>FY 2017 Base Plans:</b> Conduct scale modeling, prototype development and testing, and prepare draft solicitation package for low rate initial production (LRIP) craft in FY 19.					
<b>FY 2017 OCO Plans:</b> N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	0.582	0.000	3.393	0.000	3.393

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

N/A

**Remarks**

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Navy		<b>Date:</b> February 2016
<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>

**D. Acquisition Strategy**

RDT&E funding is required to begin development of a replacement amphibious vehicle to support OPLAN and Required Operational Capability/Potential Operating Environment (ROC/POE) requirements of the Naval Beach Groups and Underwater Construction Teams. Technology investigation began in FY15. NAVFAC HQ, NAVFAC field activities, and other agencies are involved in this development effort

**E. Performance Metrics**

Quarterly Program Reviews are conducted with the performer to include funds status discussion, schedule review.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy** **Date:** February 2016

<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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<b>Product Development (\$ in Millions)</b>				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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			
Amphibious Vehicle Replacement	WR	Naval Surface Warfare Center Carderock Division (N : West Bethesda, MD)	0.000	0.582	Aug 2015	0.000		3.393	Jan 2017	-		3.393	0.000	3.975	0.200
<b>Subtotal</b>			0.000	0.582		0.000		3.393		-		3.393	0.000	3.975	0.200

**Remarks**  
 RD TEN funding is required to begin development of a replacement amphibious vehicle to support OPLAN and Required Operational Capability/Potential Operation Environment (ROC/POE) requirements of the NBGs and UCTs.

	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	0.000	0.582	0.000	3.393	-	3.393	0.000	3.975	0.200

**Remarks**

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2017 Navy</b>		<b>Date:</b> February 2016
<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>

FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
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 2909</b>	
Development of acquisition and design requirements for Amphibious Vehicle Replacement	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Navy		<b>Date:</b> February 2016
<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>				
Development of acquisition and design requirements for Amphibious Vehicle Replacement	1	2015	1	2018

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