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

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational

PE 0204413N I Amphibious Tactical Supt Units

Systems Development

,												
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	24.328	4.534	4.609	11.335	-	11.335	8.900	2.111	1.629	1.662	Continuing	Continuing
2231: SC(X)(R)	24.328	4.534	4.027	11.335	-	11.335	8.900	2.111	1.629	1.662	Continuing	Continuing
2909: Amphibious Lighterage Development	0.000	-	0.582	-	-	-	-	-	-	-	-	0.582

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.

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. SC(X)(R) will provide similar payload, range, speed, and interoperability. Procurement is currently scheduled to begin in FY18.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	4.382	4.609	11.026	-	11.026
Current President's Budget	4.534	4.609	11.335	-	11.335
Total Adjustments	0.152	-	0.309	-	0.309
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	0.162	-			
SBIR/STTR Transfer	-0.010	-			
 Program Adjustments 	-	-	0.366	-	0.366
 Rate/Misc Adjustments 	-	_	-0.057	-	-0.057

Change Summary Explanation

The FY 2016 funding request was reduced by \$1.334 million to account for the availability of prior year execution balances and increased \$1.700 million to address SC(X)(R) RDTEN Design and Development efforts.

PE 0204413N: Amphibious Tactical Supt Units

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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy		Date: February 2015
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 0204413N I Amphibious Tactical Supt Units	
1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational	PE 0204413N <i>I Amphibious Tactical Supt Units</i> begin the definition of requirements and Analysis of Alte	

PE 0204413N: *Amphibious Tactical Supt Units* Navy

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Exhibit R-2A, RDT&E Project J	ustification:	PB 2016 N	lavy							Date: Febr	uary 2015	
Appropriation/Budget Activity 1319 / 7					_		t (Number/ ibious Tactio	•	Project (N 2231 / SC(umber/Nan X)(R)	ne)	
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
2231: SC(X)(R)	24.328	4.534	4.027	11.335	-	11.335	8.900	2.111	1.629	1.662	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.

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. SC(X)(R) will provide similar payload, range, speed, and interoperability. Procurement is currently scheduled to begin in FY18.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2016	FY 2016	FY 2016
	FY 2014	FY 2015	Base	OCO	Total
Title: LCAC RDT&E,N and LCU Replacement	4.534	4.027	11.335	-	11.335
Articles:	-	-	-	-	-
FY 2014 Accomplishments:					
FY14 LCAC: Performed full-scale testing of composite vehicle ramps and underway testing of composite					
propulsion shafting (entire drive train); researched and tested improved bow thruster bearings to achieve					
increased reliability; initiated the definition of requirements, AoA, and feasibility study in support of the launch of USMC vehicles from an LCAC.					
FY14 SC(X)(R): Completed Materiel Solution Analysis and the AoA; continued requirements documentation					
development; conducted Software Specification Review (SSR); initiated preliminary design / contract design;					
began development of Test and Evaluation Master Plan (TEMP).					
FY 2015 Plans:					
FY15 LCAC: Perform full-scale testing of all-in-one LCAC power supply capable of charging craft batteries,					
powering 28VD electronics and providing 60Hz 115VAC power; develop technologies to prevent moisture intrusion into craft windows; develop auxiliary power unit controller to improve visibility and equipment reliability.					
initiasion into craft windows, develop auxiliary power unit controller to improve visibility and equipment reliability.					
	I				

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PE 0204413N: Amphibious Tactical Supt Units

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy				Date: Febr	uary 2015	
1319/7	R-1 Program Element (Number/ PE 0204413N <i>I Amphibious Tactio</i> <i>Units</i>		Project (N 2231 / SC(umber/Nan X)(R)	ne)	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in	Each)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
FY15 SC(X)(R): Complete requirements documentation; continue preliminary de TEMP development; conduct System Functional Review (SFR) and Preliminary Life Cycle Sustainment Plan (LCSP) development; begin integrated development Capability Development Document (CDD) approval.	Design Review (PDR); initiate					
FY 2016 Base Plans: FY16 LCAC: Improve the reliability of the LCAC main engine fuel shutoff valve a marine corrosion.	and harden main engines against					
FY16 SC(X)(R):						
Complete preliminary design and contract design. Transition from Preliminary Drequires a sub system level of detail and most significantly a design that support specification for a Gate 4, Requirement Decision Point (RDP), and System Fund design development phase requires the stand up and frequent meeting/support Teams including systems engineering, acquisition, test, logistics and cost in predesign effort will explore innovative and cost saving concepts such as flexible in commonality products, and a common design environment. Continue participating affordability trade-offs and informing a producible design. Milestone B document	ts the development of a stional Review (SFR). The stional Review (SFR). The sto OSD Integrated Product paration for MS B. The contract frastructure, incorporation of on by Shipbuilders to support					
Continue TEMP and LCSP development						
Continue integrated developmental and operational testing.						
Conduct Early Operational Assessment (EOA).						
FY 2016 OCO Plans: N/A						
Accomplishment	s/Planned Programs Subtotals	4.534	4.027	11.335	-	11.33

PE 0204413N: Amphibious Tactical Supt Units Navy

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Exi	hibit R-2A, RDT&E Project Jus						Date: February 2015					
	propriation/Budget Activity 19 / 7		rogram Elen 04413N / An	•	•	Project (I 2231 / SC	Number/Na C(X)(R)	ime)				
					Units							
C. (Other Program Funding Sumn	nary (\$ in Milli	ons)									
				FY 2016	FY 2016	FY 2016					Cost To	
	Line Item	FY 2014	FY 2015	Base	OCO	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total Cost
	 OPN 0970: Amphibious 	14.431	7.158	20.965	-	20.965	3.237	5.445	4.141	5.707	Continuing	Continuing

80.738

82.777

33.842

63.663

85.054 1.506.232

64.497 Continuing Continuing

Remarks

D. Acquisition Strategy

Tactical Support Units
• SCN 5139: LCAC SLEP

• SCN 5100: SC(X)(R) Procurement

80.987

40.485

80.738

Technology Transition - RDT&E efforts commenced in FY06. Multiple contracts and Field Activities are involved through FY20 to complete the various projects.

E. Performance Metrics

FY14 LCAC: Performed full-scale testing of composite vehicle ramps and underway testing of composite propulsion shafting (entire drive train); researched and tested improved bow thruster bearings to achieve increased reliability; initiated the definition of requirements, AoA, and feasibility study in support of the launch of USMC vehicles from an LCAC.

FY14 SC(X)(R): Completed Materiel Solution Analysis and the AoA; continued requirements documentation development; conducted SSR; initiated preliminary design / contract design; began development of the TEMP.

FY15 LCAC: Perform full-scale testing of all-in-one LCAC power supply capable of charging craft batteries, powering 28VD electronics and providing 60Hz 115VAC power; develop technologies to prevent moisture intrusion into craft windows; develop auxiliary power unit controller to improve visibility and equipment reliability.

FY15 SC(X)(R): Complete requirements documentation; continue preliminary design / contract design and TEMP development; conduct SFR and PDR; initiate LCSP development; begin integrated developmental / operational testing; CDD approval.

FY16 LCAC: Improve the reliability of the LCAC main engine fuel shutoff valve and harden main engines against marine corrosion.

FY16 SC(X)(R):

Navy

Complete preliminary design and contract design.

Transition from Preliminary Design into Contract Design requires a sub system level of detail and most significantly a design that supports the development of a specification for a Gate 4, Requirement Decision Point (RDP), and System Functional Review (SFR). The design development phase requires the stand up and frequent meeting/support to OSD Integrated Product Teams including systems engineering, acquisition, test, logistics and cost in preparation for MS B. The contract design effort

PE 0204413N: Amphibious Tactical Supt Units

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy		Date: February 2015
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204413N I Amphibious Tactical Supt Units	Project (Number/Name) 2231 / SC(X)(R)
will explore innovative and cost saving concepts such as flexib participation by Shipbuilders to support affordability trade-offs		
Continue TEMP and LCSP development		
Continue integrated developmental and operational testing.		
Conduct Early Operational Assessment (EOA).		

PE 0204413N: Amphibious Tactical Supt Units Navy

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy Date: February 2015

Appropriation/Budget Activity R-1 Program Element (Number/Name) 1319 / 7

PE 0204413N I Amphibious Tactical Supt

Units

2231 I SC(X)(R)

Project (Number/Name)

Product Developmer	nt (\$ in Mi	illions)		FY 2	2014	FY 2	2015		2016 ise	FY 2	2016 CO	FY 2016 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
Component Development	WR	NSWC CD : Philadelphia, PA	8.325	-		-		-		-		-	-	8.325	-
Systems Engineering	WR	NSWC CD : Philadelphia, PA	3.229	0.913	Feb 2014	1.196	Feb 2015	1.252	Feb 2016	-		1.252	3.296	9.886	-
SC(X)(R)	Various	Various : Various	2.091	2.382	Apr 2014	1.407	Mar 2015	8.591	Mar 2016	-		8.591	7.087	21.558	-
		Subtotal	13.645	3.295		2.603		9.843		-		9.843	10.383	39.769	-

Remarks

*The key events driving the increase in funding between FY15 and FY16 are the following SC(X)(R) efforts: Transition from Preliminary Design (PD) to Contract Design (CD) efforts. CD efforts translate the engineering findings and decisions 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. Additionally, the FY16 Product Development funds will support the Test & Evaluation planning, Life Cycle Sustainment Plan (LCSP) development, integrated developmental and operational testing, conduct Early Operational Assessment (EOA), continue document develop for combined Milestone B/C, involve industry in design development through trade studies, and begin prototyping systems efforts.

Support (\$ in Millions	s)			FY 2	2014	FY 2	2015	FY 2 Ba	2016 ise	FY 2	2016 CO	FY 2016 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	Total Cost	Target Value of Contract
Development Support	WR	NSWC PCD : Panama City, FL	6.340	1.037	Apr 2014	1.159	Mar 2015	1.214	Mar 2016	-		1.214	3.195	12.945	-
SC(X)(R)	Various	Various : Various	0.565	-		-		-		-		-	Continuing	Continuing	Continuing
		Subtotal	6.905	1.037		1.159		1.214		-		1.214	-	-	-

Test and Evaluation	(\$ in Milli	ons)		FY 2	2014	FY :	2015		2016 ase	FY 2	2016 CO	FY 2016 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	Total Cost	Target Value of Contract
Developmental T&E	WR	Various : Various	0.287	-		-		-		-		-	-	0.287	-
Operational T&E	WR	NSWC PCD : Panama City, FL	0.777	0.156	Mar 2014	0.205	Mar 2015	0.215	Mar 2016	-		0.215	0.565	1.918	-
Test Assets	WR	NSWC PCD : Panama City, FL	0.850	-		-		-		-		-	-	0.850	-

PE 0204413N: Amphibious Tactical Supt Units

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2016 Navy	<u> </u>								Date:	February	2015	
Appropriation/Budg 1319 / 7	et Activity	1			R-1 Program Element (Number/Name) PE 0204413N I Amphibious Tactical Supt Units Project (Number/Name) 2231 I SC(X)(R)								/Name)		
Test and Evaluation	(\$ in Milli	ions)		FY 2	2014	FY 2	2015		2016 ase		2016 CO	FY 2016 Total			
Cost Category Item	Cost Category Item Contract Method & Type Activity & Location Subtotal Anagement Services (\$ in Millions)					Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	1.914	0.156		0.205		0.215		-		0.215	0.565	3.055	-
Management Servic	es (\$ in M	lillions)		FY 2	2014	FY 2	2015		2016 ase		2016 CO	FY 2016 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
Engineering Support	WR	Various : Various	0.726	-		-		-		-		-	-	0.726	-
Program Mangement Support	WR	NSWC PCD : Panama City, FL	1.063	0.046	Apr 2014	0.060	Apr 2015	0.063	Apr 2016	-		0.063	0.165	1.397	-
Travel	WR	NAVSEA : Not Specified	0.064	-		-		-		-		-	-	0.064	-
DAWDF	MIPR	OSD : Not Specified	0.011	-		-		-		-		-	-	0.011	-
		Subtotal	1.864	0.046		0.060		0.063		-		0.063	0.165	2.198	-
			Prior Years	FY 2	2014	FY 2	2015		2016 ase		2016 CO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
		Project Cost Totals	24.328	4.534		4.027		11.335		-		11.335	-	-	_

hibit R-4, RDT&E Schedule Profile: PB 2016 N	avy											/												2015	
opropriation/Budget Activity 19 / 7	R-1 Program Element (Number/Name) PE 0204413N / Amphibious Tactical Supt Units Project (Number/Name) 2231 / SC(X)												ame	•)											
	F	/ 201 4	ļ		FY 20	15		F	Y 201	6		FY	20	17		FY	201	В		FY	2019)		FY 2	020
	1 2	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
Proj 2231																									
LCAC Technology Initiatives																									
Surface Connector (X) Replacement RDT&E																									
Materiel Solution Analysis																									
Analysis of Alternatives (AoA)																									
Requirements Documentation Development																									
Software Specification Review (SSR)																									
Preliminary Design / Contract Design																									
Test and Evaluation Master Plan (TEMP) Development																									
System Functional Review (SFR)																									
Life Cycle Sustainment Plan (LCSP) Development																									
Integrated Developmental / Operational Testing																									
Approved Capability Development Document (CDD)																									
Preliminary Design Review (PDR)																									
Early Operational Assessment (EOA)																									
Detail Design																									
Milestone B																									

PE 0204413N: *Amphibious Tactical Supt Units* Navy

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
1	,	Project (N 2231 / SC(umber/Name) (X)(R)

Schedule Details

	St	art	Er	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 2231				
LCAC Technology Initiatives	1	2014	4	2020
Surface Connector (X) Replacement RDT&E	1	2014	4	2018
Materiel Solution Analysis	1	2014	2	2014
Analysis of Alternatives (AoA)	1	2014	4	2014
Requirements Documentation Development	1	2014	4	2015
Software Specification Review (SSR)	2	2014	2	2014
Preliminary Design / Contract Design	4	2014	3	2016
Test and Evaluation Master Plan (TEMP) Development	4	2014	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)	3	2016	3	2016
Early Operational Assessment (EOA)	2	2016	2	2016
Detail Design	2	2018	4	2019
Milestone B	2	2016	2	2016

Exhibit R-2A, RDT&E Project J	ustification	: PB 2016 N	Navy							Date: Feb	ruary 2015	
Appropriation/Budget Activity 1319 / 7					_	am Elemen 13N <i>I Amph</i>	•	•		umber/Nai phibious Lig	ne) ghterage De	velopment
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
2909: Amphibious Lighterage Development	-	-	0.582	-	-	-	-	-	-	-	-	0.582
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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Title: New Accomplishment/Planned Program Entry Articles:		0.582	-		
FY 2014 Accomplishments: New Start Project not funded for FY14 "Technology investigation unfunded outyear requirement".					
FY 2015 Plans: Commence Technology Investigation in FY15, NAVFAC HQ, NAVFAC field activity and other agencies are involved in this effort. Research for the propulsion systems and human interface with replacement near shore amphibious initiatives.					
FY 2016 Base Plans: N/A					
FY 2016 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	_	0.582	_	_	_

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

N/A

Remarks

PE 0204413N: *Amphibious Tactical Supt Units* Navy

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy			Date: February 2015
Appropriation/Budget Activity 1319 / 7	, ,	- , ,	umber/Name) phibious Lighterage Development

D. Acquisition Strategy

RDT&E 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. Technology Investigation to commence in FY15, Naval Facilities Engineering Command (NAVFAC)HQ, NAVFAC field activity and other agencies are involved in this effort.

E. Performance Metrics

FY15:

15 Oct 2014 Award Engineering and Manufacturing Development (EMD) contract

15 Dec 2014 Award Low Rate Initial Production (LRIP) contract

Date: February 2015 Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Navy Appropriation/Budget Activity R-1 Program Element (Number/Name) **Project (Number/Name)** 1319 / 7

PE 0204413N I Amphibious Tactical Supt Units

2909 I Amphibious Lighterage Development

Product Developme	nt (\$ in Mi	illions)		FY	2014	FY 2	2015		2016 ise		2016 CO	FY 2016 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
Amphibious Vehicle Replacement	WR	Engineering Expeditionary Warfare Center (EXWC): Port Hueneme, CA	0.000	-		0.582	Jan 2015	-		-		-	-	0.582	0.900
		Subtotal	0.000	-		0.582		-		-		-	-	0.582	0.900

Remarks

RDTEN 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 2	2014	FY 2015	FY 2 Ba	2016 Ise	1	2016 CO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	-		0.582	-		_		-	-	0.582	0.900

Remarks

PE 0204413N: Amphibious Tactical Supt Units Navy

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Exhibit R-4, RDT&E Schedule Profile: PB 201	6 Navy																					Dat	te: F	ebru	ary	201	5	
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204413N / Amphibious Tactical Supt Units Project (Number/Name) 2909 / Amphibious										lame) Lighterage Develop																	
		FY	2014	1		FY	2015	5		FY	2016	6		FY	2017	7		FY 2	2018	}		FY	2019	9		FY	2020	0
	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
Proj 2909																												
Development of acquisition and design requirements for Amphibious Vehicle Replacement																												

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy			Date: February 2015
	· · · · · · · · · · · · · · · · · · ·	- 3 (umber/Name) phibious Lighterage Development

Schedule Details

	St	art	Eı	nd
Events by Sub Project	Quarter	Year	Quarter	Year
Proj 2909				
Development of acquisition and design requirements for Amphibious Vehicle Replacement	1	2015	1	2016