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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	397.701	1.425	19.909	5.155	-	5.155	0.000	0.000	0.000	0.000	0.000	424.190
3133: <i>Ship to Shore Connectors Contract Design</i>	17.177	1.100	2.051	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	20.328
3137: <i>SSC Construction</i>	370.873	0.325	2.858	5.155	-	5.155	0.000	0.000	0.000	0.000	0.000	379.211
9999: <i>Congressional Adds</i>	9.651	0.000	15.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	24.651

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 303

A. Mission Description and Budget Item Justification

Note: This effort was previously funded under PE 0604567N under projects 3133 and 3137 (FY 2014 and prior).

This PE directly funds and supports the detail design, development, construction, issue resolution, certification, integration and testing of the Ship to Shore Connector (SSC). The lead craft (Craft 100) will be maintained as a test and training platform throughout its life cycle.

SSC is an air-cushioned landing craft intended to transport personnel, weapon systems, equipment, and cargo from amphibious vessels to shore in assault and non-assault operations. The SSC program provides the capability to rapidly move assault forces within the littoral operational environment to accomplish Unified Command Plan (UCP) missions and ensures the Joint Force Commander's (JFCDR's) ability to conduct amphibious operations and operate over the high water mark, including movement over ice, mud, rivers, swamps and marshes. The SSC program provides the functional replacement for the Landing Craft, Air Cushion (LCAC) craft, including Service Life Extension Program (SLEP) which began to degrade below the Required Operational Capability/Projected Operational Environment (ROC/POE) requirement beginning in 2015. SSC addresses this capability gap.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>
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B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	1.444	4.909	5.146	-	5.146
Current President's Budget	1.425	19.909	5.155	-	5.155
Total Adjustments	-0.019	15.000	0.009	-	0.009
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	15.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.001	0.000			
• SBIR/STTR Transfer	-0.018	0.000			
• Rate/Misc Adjustments	0.000	0.000	0.009	-	0.009

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: *Congressional Adds*

Congressional Add: *Advanced materials and manufacturing for naval hovercraft applications*

Congressional Add Subtotals for Project: 9999

Congressional Add Totals for all Projects

	FY 2019	FY 2020
	0.000	15.000
	0.000	15.000
	0.000	15.000

Change Summary Explanation

FY 2020 was increased by \$15 million in the Department of Defense Appropriations Act, 2020 in support of advanced materials and manufacturing for naval hovercraft applications.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy										Date: February 2020		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>				Project (Number/Name) 3133 / <i>Ship to Shore Connectors Contract Design</i>			
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
3133: <i>Ship to Shore Connectors Contract Design</i>	17.177	1.100	2.051	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	20.328
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 303

A. Mission Description and Budget Item Justification

Ship to Shore Connector (SSC) - This project provides the Preliminary and Contract design and Class test efforts for the SSC Program. The SSC program provides the capability to rapidly move assault forces within the littoral operational environment to accomplish Unified Command Plan (UCP) missions and ensures the Joint Force Commander's (JFCDR's) ability to conduct amphibious operations and operate over the high water mark, including movement over ice, mud, rivers, swamps and marshes. SSC provides the functional replacement for the LCAC craft, which begin reaching end of extended service life in 2015. For FY15 and beyond, this project will provide for Class Test and Evaluation of components and systems, as well as all programmatic effort and support activities necessary for the development and execution of Class T&E plans and programs.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Ship to Shore Connectors Contract Design	1.100	2.051	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2020 Plans: Commence execution of Post Delivery Test and Trials (PDT&T). PDT&T will consist of planning and execution of 27 test events to validate first of class certification and performance requirements, characterize the craft operational envelope, provide confidence to certify the craft readiness for integrated testing and Initial Operational Testing and Evaluation (IOT&E), and to verify SSC production and performance to support a Full Rate Production Decision (FRPD). PDT&T tests will support the reliability growth program by conducting 240 hours of on-cushion operations and providing craft level failure data for use with the reliability growth model.					
FY 2021 Base Plans: N/A					
FY 2021 OCO Plans: N/A					
FY 2020 to FY 2021 Increase/Decrease Statement:					

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy		Date: February 2020
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>	Project (Number/Name) 3133 / <i>Ship to Shore Connectors Contract Design</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Decrease due to completion of effort.					
Accomplishments/Planned Programs Subtotals	1.100	2.051	0.000	0.000	0.000

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

<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• RD TEN 3137: <i>SSC Construction</i>	0.325	2.858	5.155	-	5.155	0.000	0.000	0.000	0.000	0.000	379.211

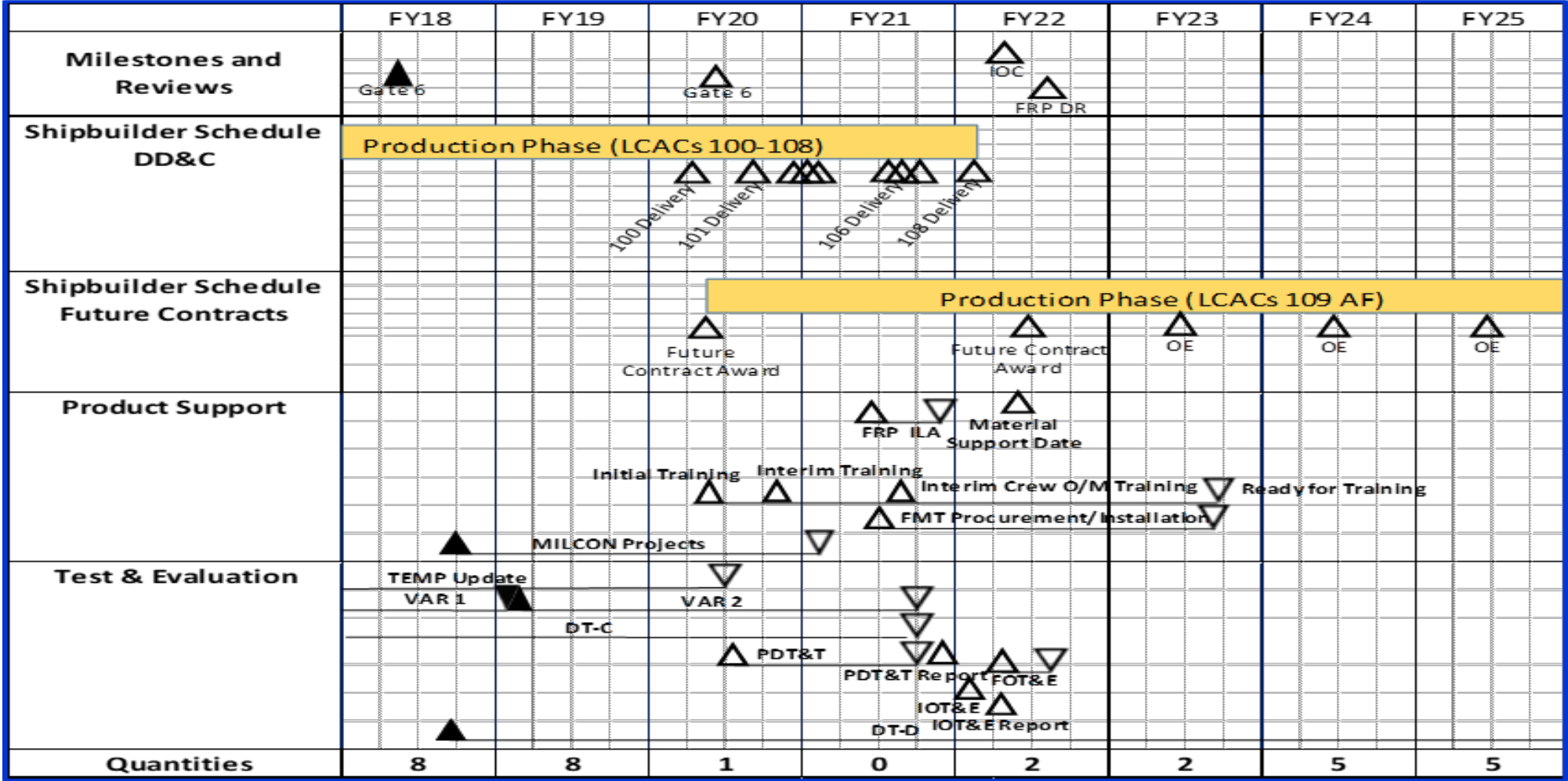
Remarks

D. Acquisition Strategy

The Test and Training craft (Craft 100) and LCAC 101 have been executed on contract. Craft 100 was procured and constructed with RD TEN. LCAC 101 was awarded with RD TEN and transferred to SCN for completion. The Detail Design and Construction contract includes options for construction of an additional seven SCN craft, all of which have been awarded (LCAC 102-108). Craft authorized for FY 17-FY 19 will be awarded on a new contract.

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy		Date: February 2020
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>	Project (Number/Name) 3133 / <i>Ship to Shore Connectors Contract Design</i>



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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy		Date: February 2020
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>	Project (Number/Name) 3133 / <i>Ship to Shore Connectors Contract Design</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3133				
Post Delivery Test & Trials (PDT&T)	3	2020	3	2021
Initial Operational Test and Evaluation (IOT&E)	1	2022	1	2022
Full Rate Production (FRP) Program Review (PR)	3	2022	3	2022

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy										Date: February 2020		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>					Project (Number/Name) 3137 / <i>SSC Construction</i>		
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
3137: <i>SSC Construction</i>	370.873	0.325	2.858	5.155	-	5.155	0.000	0.000	0.000	0.000	0.000	379.211
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: 303												

A. Mission Description and Budget Item Justification

This project funds the Ship to Shore Connector (SSC) Engineering & Manufacturing Development phase which includes Detail Design and Construction, Product Support, Government Furnished Equipment (GFE), Program support, and Outfitting and Post Delivery. The lead craft will be maintained as a test and training platform throughout its life cycle. The SSC program provides the capability to rapidly move assault forces within the littoral operational environment to accomplish Unified Command Plan (UCP) missions, and ensures the Joint Force Commander's (JFCDR's) ability to conduct amphibious operations and operate over the high water mark, including movement over ice, mud, rivers, swamps and marshes. The SSC program provides the functional replacement for the LCAC craft, which began reaching end of extended service life in 2015. Funding for this effort was previously executed under PE 0604567N.

Plans/Basic Construction:.....257.889 - (FY21 0.000)
 Change Orders:.....13.618 - (FY21 0.000)
 Electronic:.....8.407 - (FY21 0.000)
 HM&E:.....33.123 - (FY21 3.300)
 Other Support:.....38.465 - (FY21 1.855)
 Ordnance:.....0.008 - (FY21 0.000)
 Post Delivery/Outfitting:.....4.000 - (FY21 0.000)
 Total:.....355.511 - (FY21 5.155)

NOTE - The SSC Construction project unit prior year column (FY11-18) total funding is \$370.873 million for the SSC program. In the prior years FY 11-14, the program was funded in PE 0604567N Ship Contract Design/Live Fire T&E. Funds breakout is as follows:

LCAC 100
 PE 0604567N 279.863 million FY11-14
 PE 0605220N 39.715 million FY15

LCAC 101
 PE 0604567N 23.700 million FY13-14

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy		Date: February 2020
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>	Project (Number/Name) 3137 / <i>SSC Construction</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>Title: SSC Construction</p> <p align="right">Articles:</p> <p>FY 2020 Plans: Commence Post Delivery Test and Trials (PDT&T) and associated tasking for Craft 100. Funding provides for the operating crew and maintenance support of SSC test platform at Naval Surface Warfare Center (NSWC) Panama City. This craft is used to test proposed craft changes, Research and Development efforts for LCAC 100 class, and the identification and resolution of maintenance issues.</p> <p>FY 2021 Base Plans: Continue Post Delivery Test and Trials (PDT&T) and associated tasking for Craft 100. Conduct Post Shakedown Availability on Craft 100 to align craft to fleet configuration. Funding also provides Craft 100 (T&T Craft) maintenance support, civilian crew, and craft enhancements. This craft is used to test proposed craft changes, Research and Development efforts for LCAC 100 class, and the identification and resolution of maintenance issues.</p> <p>FY 2021 OCO Plans: N/A</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Funding increase in FY 2021 supports Craft 100 sustainment requirements.</p>	0.325	2.858	5.155	0.000	5.155
	-	-	-	-	-
Accomplishments/Planned Programs Subtotals	0.325	2.858	5.155	0.000	5.155

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• RDTEN 3133: <i>Ship to Shore Connectors Contract Design</i>	1.100	2.051	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	20.328
• SCN 5112: <i>Ship to Shore Connector</i>	517.275	65.000	0.000	-	0.000	137.947	140.443	358.172	365.178	1,702.680	4,337.556
Remarks											

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>	Project (Number/Name) 3137 / <i>SSC Construction</i>

D. Acquisition Strategy

The Test and Training craft (Craft 100) and LCAC 101 have been executed on contract. Craft 100 will be procured and constructed with RD TEN. LCAC 101 was awarded with RD TEN and transferred to SCN for completion. The Detail Design and Construction contract includes options for construction of an additional seven SCN craft, all of which have been awarded (LCAC 102-108). Craft authorized for FY 17-19 will be awarded on a new contract.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>	Project (Number/Name) 3137 / <i>SSC Construction</i>
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Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Test & Trng Craft Ship Design	C/CPFF	Various : Various	3.804	0.000		0.000		0.000		-		0.000	0.000	3.804	-
Test & Trng Craft Detail Design/Construction	C/FPIF	Textron : New Orleans, LA	35.762	0.000		0.000		0.000		-		0.000	0.000	35.762	-
Test & Trng Craft Government Furnished Equipment (GFE)	Various	Various : Various	0.260	0.000		0.000		0.000		-		0.000	0.000	0.260	-
Test & Trng Craft Change Orders	C/FPIF	Textron : New Orleans, LA	7.822	0.000		0.000		0.000		-		0.000	0.000	7.822	-
Prior Year - PE 0604567N	Various	Not Specified : Not Specified	272.356	0.000		0.000		0.000		-		0.000	0.000	272.356	-
Test & Trng Craft Detail Design/Construction	C/FPIF	NSWC-PCD : Panama City, FL	0.000	0.000		2.858	Feb 2020	0.000		-		0.000	5.183	8.041	-
Subtotal			320.004	0.000		2.858		0.000		-		0.000	5.183	328.045	N/A

Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Test & Trng Craft Studies and Analysis	Various	Various : Various	1.157	0.325	May 2019	0.000		0.355	Mar 2021	-		0.355	0.000	1.837	-
Test & Trng Craft Integrated Logistics Support	WR	NSWC-PCD : Various	3.908	0.000		0.000		0.000		-		0.000	0.000	3.908	-
T&T Post Delivery/ Outfitting	Various	SupShip Gulf Coast/ Textron/NSWC-PCD : Various	4.000	0.000		0.000		0.000		-		0.000	0.000	4.000	-
Prior Year - PE 0604567N	Various	Not Specified : Not Specified	6.149	0.000		0.000		0.000		-		0.000	0.000	6.149	-
Test & Trng Craft Post Shakedown Availability	C/BA	NSWC-PCD : Panama City, FL	0.000	0.000		0.000		3.300	Mar 2021	-		3.300	0.000	3.300	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy												Date: February 2020			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)						
1319 / 5				PE 0605220N / Ship-to-Shore Connector (SSC)					3137 / SSC Construction						
Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
Test & Trng Craft Sustainment and Operation	C/BA	NSWC-PCD : Various	0.000	0.000		0.000		1.500	Mar 2021	-		1.500	0.000	1.500	-
Subtotal			15.214	0.325		0.000		5.155		-		5.155	0.000	20.694	N/A
Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
Test & Trng Craft Construction Test Program	Various	Various : Various	4.732	0.000		0.000		0.000		-		0.000	0.000	4.732	-
Prior Year - PE 0604567N	Various	Not Specified : Not Specified	2.268	0.000		0.000		0.000		-		0.000	0.000	2.268	-
Subtotal			7.000	0.000		0.000		0.000		-		0.000	0.000	7.000	N/A
Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
Test & Trng Craft Contractor Engineering Support	C/CPFF	CSC/Alion : Washington, DC	2.891	0.000		0.000		0.000		-		0.000	0.000	2.891	-
Travel	Various	Various : Various	0.314	0.000		0.000		0.000		-		0.000	0.000	0.314	-
Test & Trng Craft Government Engineering Support	WR	Various : Various	2.662	0.000		0.000		0.000		-		0.000	0.000	2.662	-
Prior Year - PE 0604567N	Various	Not Specified : Not Specified	22.788	0.000		0.000		0.000		-		0.000	0.000	22.788	-
Subtotal			28.655	0.000		0.000		0.000		-		0.000	0.000	28.655	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy								Date: February 2020			
Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>				Project (Number/Name) 3137 / <i>SSC Construction</i>			
	Prior Years	FY 2019		FY 2020		FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	370.873	0.325		2.858		5.155	-	5.155	5.183	384.394	N/A

Remarks

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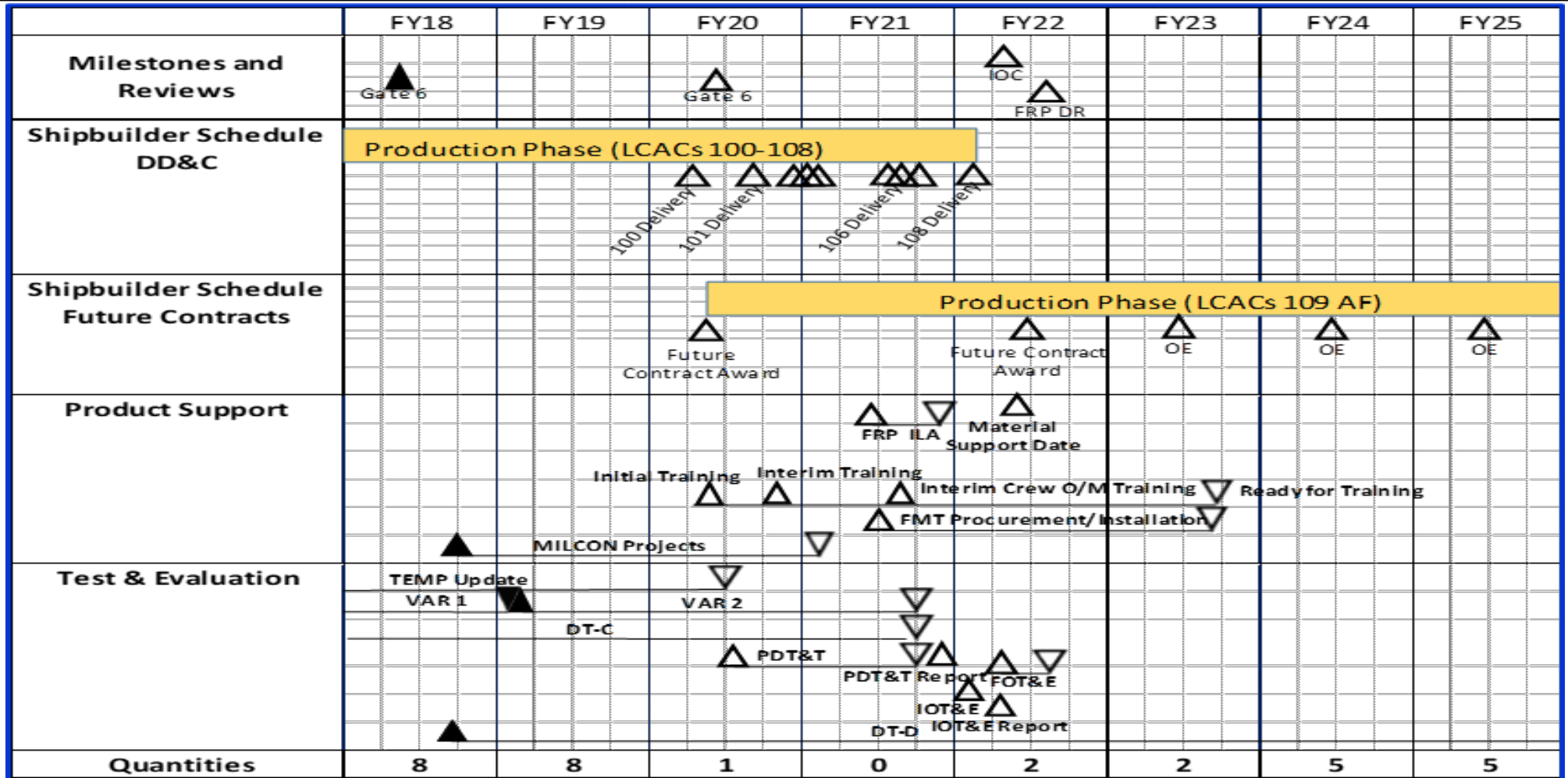
Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy

Date: February 2020

Appropriation/Budget Activity
1319 / 5

R-1 Program Element (Number/Name)
PE 0605220N / Ship-to-Shore Connector
(SSC)

Project (Number/Name)
3137 / SSC Construction



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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy		Date: February 2020
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>	Project (Number/Name) 3137 / <i>SSC Construction</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 3137</i>				
LCAC 100 - Test and Training Craft Delivery	2	2020	2	2020
Post Delivery Test and Trials (PDT&T)	3	2020	3	2021
Craft 100 Sustainment	3	2021	4	2025

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>	Project (Number/Name) 9999 / <i>Congressional Adds</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
9999: <i>Congressional Adds</i>	9.651	0.000	15.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	24.651
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Advanced materials and manufacturing for naval hovercraft applications

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2019	FY 2020
<i>Congressional Add:</i> Advanced materials and manufacturing for naval hovercraft applications	0.000	15.000
<i>FY 2019 Accomplishments:</i> N/A		
<i>FY 2020 Plans:</i> FY 2020 efforts will include developmental efforts related to technical solutions including SSC propellers and other critical components. These efforts will reduce costs and improve reliability/performance.		
Congressional Adds Subtotals	0.000	15.000

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Navy **Date:** February 2020

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>	Project (Number/Name) 9999 / <i>Congressional Adds</i>
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Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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 of Advanced Skirt Material	Various	NAWC AD : LAKEHURST	0.000	0.000		1.000	May 2020	0.000		-		0.000	0.000	1.000	-
Development of Advanced Lightweight Material for Air Cushion Vehicles	Various	VARIOUS : VARIOUS	0.000	0.000		4.600	Mar 2020	0.000		-		0.000	0.000	4.600	-
Subtotal			0.000	0.000		5.600		0.000		-		0.000	0.000	5.600	N/A

Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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 of Composite Repair Procedure and Techniques for Field Repair	Various	NAWC AD : LAKEHURST	0.251	0.000		0.500	May 2020	0.000		-		0.000	0.000	0.751	-
Subtotal			0.251	0.000		0.500		0.000		-		0.000	0.000	0.751	N/A

Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Low Rate Initial Production and Techniques Development for Air Cushion Vehicles	Various	NSWC PCD : VARIOUS	7.400	0.000		6.900	Jun 2020	0.000		-		0.000	0.000	14.300	-
Developmental Test & Evaluation	Various	NAWC AD : LAKEHURST	2.000	0.000		0.000		0.000		-		0.000	0.000	2.000	-
IMPLEMENTATION OF ADVANCED, AUTOMATED MANUFACTURING METHODS	Various	NSWC PD : VARIOUS	0.000	0.000		2.000	Jun 2020	0.000		-		0.000	0.000	2.000	-

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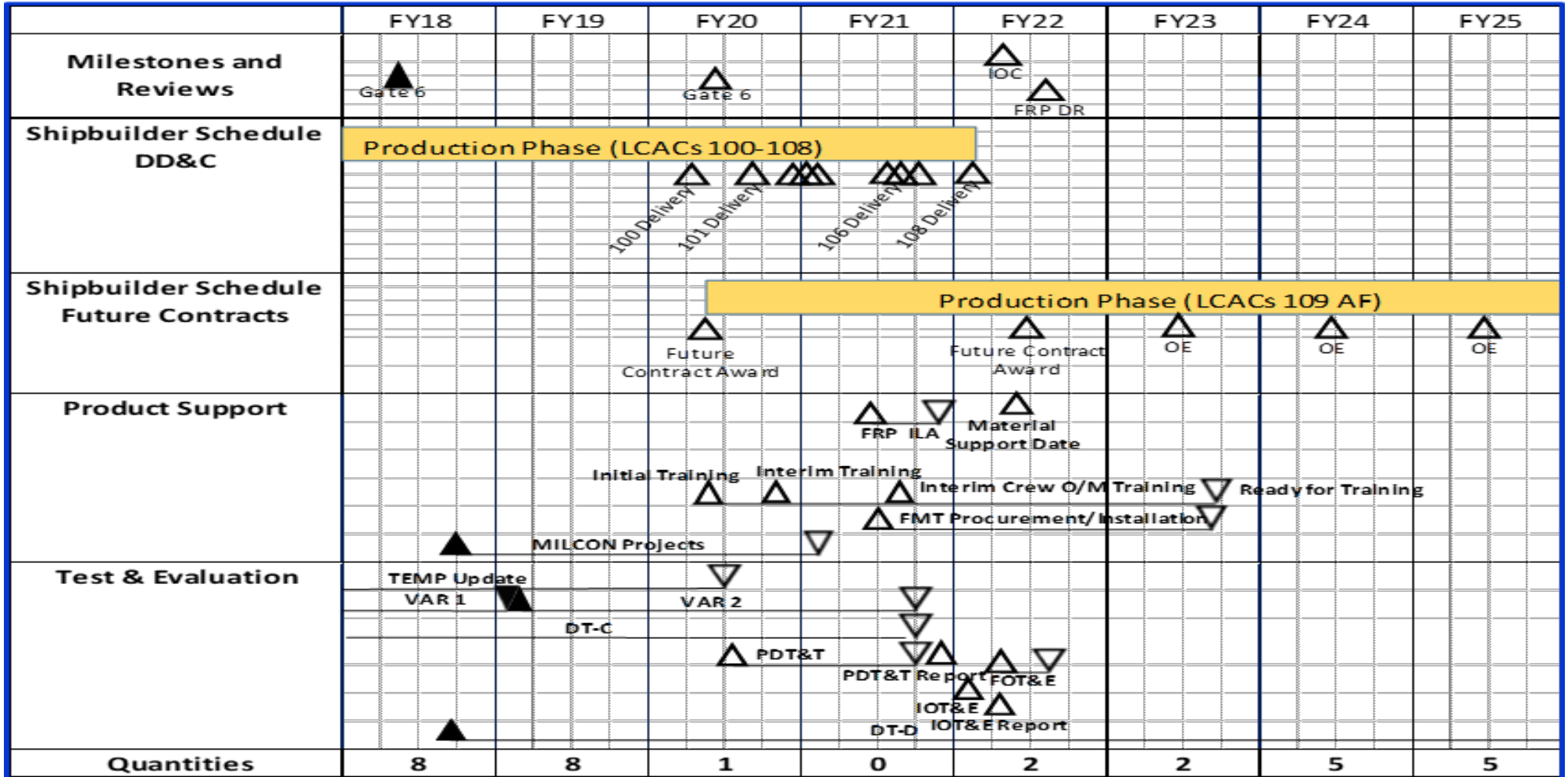
Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy

Date: February 2020

Appropriation/Budget Activity
1319 / 5

R-1 Program Element (Number/Name)
PE 0605220N / Ship-to-Shore Connector
(SSC)

Project (Number/Name)
9999 / Congressional Adds



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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Navy		Date: February 2020
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0605220N / <i>Ship-to-Shore Connector (SSC)</i>	Project (Number/Name) 9999 / <i>Congressional Adds</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 9999				
Low Rate Initial Production and Techniques Development for Air Cushion Vehicles	3	2020	3	2022
Development of Composite Repair Procedure and Techniques for Field Repair	3	2020	3	2021
IMPLEMENTATION OF ADVANCED, AUTOMATED MANUFACTURING METHODS	3	2020	1	2022
Development of Advanced Skirt Material	3	2020	4	2021
Development of Advanced Lightweight Material for Air Cushion Vehicles	2	2020	4	2021