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

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / <i>Warfare Support System</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	101.115	9.401	8.601	9.065	-	9.065	9.320	9.853	10.496	11.140	Continuing	Continuing
3326: <i>NSW Rapid Capabilities Development for CIEC</i>	39.229	5.769	6.747	7.066	-	7.066	7.570	8.133	8.742	9.350	Continuing	Continuing
4011: <i>Naval Coastal Warfare Surv and C4I Sys</i>	52.023	2.977	0.771	0.793	-	0.793	0.808	0.819	0.836	0.853	Continuing	Continuing
9C86: <i>Combatant Craft Replacement</i>	9.863	0.655	1.083	1.206	-	1.206	0.942	0.901	0.918	0.937	Continuing	Continuing

**Note**

The FY 2021 funding request was reduced by \$1.153M to account for the availability of prior year execution balances.

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

The Rapid Capabilities Development (RCD) project supports the Naval Special Warfare Branch to identify and assess available technologies that confront current and future irregular and expeditionary challenges. The program's development efforts are focused on the enhancement/advancement of existing technologies to fill urgent and emergent capability gaps for Naval Special Warfare (NSW). Program funding provides for the development, integration, testing, validation and combat demonstration of identified technologies and/or packages of technologies to meet: Overseas Contingency Operations (OCO) goals, service common and NSW program technology challenges, and technology obsolescence issues of developed capabilities. The goal of the RCD project is to develop expeditionary/operational capabilities for NSW that enable its force to conduct cross-domain special reconnaissance, counterterrorism, direct action, irregular warfare, and foreign internal defense; and fulfill urgent/emergent needs within a 6-24 month timeframe.

As part of the Naval Coastal Warfare Surveillance program, Identity Dominance System (IDS) supports the Joint Personnel Identity (JPI) program. Maritime Expeditionary Security Force (MESF) have a mobile security mission that requires methodologies, procedures, equipment and the communications capacity to identify individuals who represent a potential threat as a means to deter and eliminate individuals from conducting asymmetric/non-traditional attacks upon friendly forces, high value assets and coastal areas that Naval Coastal Warfare (NCW) is charged with protecting. The Visit, Board, Search and Seizure (VBSS) teams conducting Expanded Maritime Interception Operations also have a similar requirement to identify individuals. The development of a device to support identity functions is captured in the IDS Capability Development Document (CDD) and implemented in the IDS Capability Production Document (CPD). IDS units are used in the following environments: aboard ships, ashore at ports, the littorals, and extended inland field environments worldwide. IDS is employed in both maritime and very austere ashore environments, carried by individuals who are part of ship boarding parties and by dismounted patrols. These mission and environmental requirements demand the need for a portable, lightweight, ruggedized, and reliable system with intuitive and user friendly features. IDS biometric modalities may differ by mission profile, requiring the authoritative response to the On-Scene Commander/Boarding Officer on whether to detain or further investigate an individual of interest or engage in a more thorough search of boarded ships.

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<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / <i>Warfare Support System</i>
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The Navy Expeditionary C4I project supports the Navy Expeditionary Combat Command (NECC) mission to detect, deter or interdict potential threats to DoN assets using agile, modular and scalable technology. NECC units have a number of current and future Command, Control, Communications, Computers & Intelligence (C4I) technological requirements for Tactical/Command Operations Center, tactical vehicles, combatant craft, and dismounted personnel. NECC operations require units to maintain effective command and control, develop and display a common tactical picture, and share intelligence and current operational information with higher headquarters, subordinate units, joint forces and coalition allies. Small, Medium, and Large Scale Communication Systems (LSCS) are the C4I hub for the NECC; Navy Enterprise Tactical Command and Control (NETC2) is the converged LSCS baseline. Future C4I research and development include enhanced information transport, network cyber security posture, assured communications in denied environments along with agility and mobility. Funding is required for testing and evaluation of cyber security issue associated with obsolescence of network items and if not addressed will impact the ability of the Program Office to maintain system accreditation under Risk Management Framework (RMF) revoking multiple LSCS assets authority to connectivity on the Department of Defense Information Network (DoDIN). Efforts are in alignment with NECC's strategic Expeditionary Warfare Improvement Program (EXWIP) Integrated Priority Capability List (IPCL) priorities and maintain alignment with greater DoD initiatives, such as Joint Information Environment (JIE), Mission Partner Environment (MPE) in order to maintain interoperability and drive down DoN enterprise costs.

Combatant Craft Replacement will provide second generation Riverine Multi Mission Craft that will replace in-service Riverine Patrol Boats (RPBs) and Riverine Assault Boats (RABs). Combatant Craft replacements will: conduct inland waterway patrol and interdiction to preserve the rivers for friendly use as lines of communications; deny the use of rivers and waterways to waterborne and immediate shore sited hostile forces by barrier and interdiction operations; and, with augmentation of ground and air forces, locate and destroy hostile forces within a riparian area. Specific mission and capabilities will be identified in an Initial Capabilities Document (ICD). RDT&E funding will fund feasibility studies and procurement of mock-ups and prototype craft to demonstrate capabilities prior to production craft procurement.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
Previous President's Budget	9.729	8.601	8.148	-	8.148
Current President's Budget	9.401	8.601	9.065	-	9.065
Total Adjustments	-0.328	0.000	0.917	-	0.917
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.002	0.000			
• SBIR/STTR Transfer	-0.326	0.000			
• Program Adjustments	0.000	0.000	0.847	-	0.847
• Rate/Misc Adjustments	0.000	0.000	0.070	-	0.070

**Change Summary Explanation**

FY2021 - -\$1.153M underexecution, +\$0.070M Rate Adjustments, +\$2.00M to support various efforts for Rapid Capabilities Development, Navy Expeditionary C4I project and Combatant Craft Replacement.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 1319 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System				<b>Project (Number/Name)</b> 3326 / NSW Rapid Capabilities Development for CIEC			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
3326: NSW Rapid Capabilities Development for CIEC	39.229	5.769	6.747	7.066	-	7.066	7.570	8.133	8.742	9.350	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

The Rapid Capabilities Development (RCD) program supports the Naval Special Warfare (NSW) Branch to identify and assess available technologies that confront current and future irregular and expeditionary challenges. Program development efforts focus on the enhancement/advancement of existing technologies to fill urgent and emergent capability gaps for NSW. Program funding provides for the development, integration, testing, validation and combat demonstration and evaluation of identified technologies to meet overseas contingency operations goals; service common and NSW program technology challenges; and technology obsolescence issues of developed capabilities.

The RCD program develops expeditionary/operational capabilities that enable NSW forces to conduct joint cross-domain special reconnaissance, counterterrorism, direct action, amphibious and irregular warfare; and fulfill urgent/emergent needs within a 6-24 month timeframe.

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

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<b>Title:</b> Navy Irregular Warfare	5.769	6.747	7.066	0.000	7.066
<b>Articles:</b>	-	-	-	-	-
<b>FY 2020 Plans:</b>					
The RCD program, FY 2020 enacted budgeted value of \$6.747M, will utilize;					
\$2.0M for communications and navigation in denied environments; and integration of these systems aboard Naval Special Warfare undersea and surface mobility assets.					
\$3.347M for sensor integration (EO/IR, Acoustic, RF), payload development, signature management, and technologies that will support improvements to human performance on the battlefield; and continuing advancement of FY19 prototyping efforts and field evaluation of developed technologies.					
\$1.4M to support various Broad Area Announcement processes for the identification of technologies that enhance and/or accelerate expeditionary and irregular capabilities in support of NSW capability challenges.					
<b>FY 2021 Base Plans:</b>					
The RCD program, FY 2021 President's Budget request value of \$7.066M, will utilize;					
\$3.050M for artificial intelligence designed to supplement human decision making, communications and navigation in denied environments; and integration of these systems aboard Naval Special Warfare undersea and surface mobility assets and systems.					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System	<b>Project (Number/Name)</b> 3326 / NSW Rapid Capabilities Development for CIEC

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

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<p>\$2.080M for sensor integration (EO/IR, Acoustic, RF), payload development, signature management, maritime precision engagement, and technologies that will support improvements to human performance on the battlefield; and continuing advancement of FY19/FY20 prototyping efforts and field evaluation of developed technologies.</p> <p>\$1.936 to support various Broad Area Announcement processes for the identification of technologies that enhance and/or accelerate expeditionary and irregular capabilities in support of NSW capability challenges.</p> <p><b>FY 2021 OCO Plans:</b> N/A</p> <p><b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> FY2021 funding increase by \$.319 million in support of various efforts for Rapid Capabilities Development.</p>					
<b>Accomplishments/Planned Programs Subtotals</b>	5.769	6.747	7.066	0.000	7.066

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

N/A

**Remarks**

**D. Acquisition Strategy**

Conduct initial validation of component specific capability gaps. Identify technical requirements necessary to meet immediate and future warfighter needs; integrate existing unique and/or related capabilities that can best meet the identified warfighter needs; conduct test and evaluation; and then demonstrate in real time and/or during planned operations within a 6-24 month period. Endeavor to leverage existing mature technologies to take advantage of investments already made to reduce cost and time to market; and seek out cost-sharing opportunities with other resource sponsors to make program funding more effective for the end-user.

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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 0604230N / Warfare Support System				Project (Number/Name) 3326 / NSW Rapid Capabilities Development for CIEC							
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
Program Management Spt	C/CPFF	Dell : Washington, DC	0.625	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Management Spt	C/CPAF	Cydecor : Arlington, VA	0.316	0.150	Feb 2019	0.150	Feb 2020	0.150	Feb 2021	-		0.150	0.000	0.766	-
Travel	WR	NAVSEA/HQ : Washington, DC	0.359	0.050	Dec 2018	0.050	Dec 2019	0.050	Dec 2020	-		0.050	Continuing	Continuing	Continuing
Program Management Spt	WR	NAVSEA/HQ : Washington, DC	0.256	0.000		0.000		0.000		-		0.000	0.000	0.256	-
Program Management Spt	WR	NSWC : Crane, IN	0.300	0.000		0.000		0.000		-		0.000	0.000	0.300	-
Program Management Spt	WR	NSWC : Dahlgren, VA	0.050	0.000		0.000		0.000		-		0.000	0.000	0.050	-
Program Management Spt	WR	NSWC : Panama City, FL	0.050	0.000		0.000		0.000		-		0.000	0.000	0.050	-
Program Management Spt	WR	NSWC : Carderock, MD	0.050	0.000		0.000		0.000		-		0.000	0.000	0.050	-
Program Management Spt	WR	NUWC : Newport, RI	0.050	0.000		0.000		0.000		-		0.000	0.000	0.050	-
<b>Subtotal</b>			2.056	0.200		0.200		0.200		-		0.200	Continuing	Continuing	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 and Evaluation	WR	NUWC : Newport, RI	2.051	0.797	Nov 2018	0.000		0.500	Mar 2021	-		0.500	Continuing	Continuing	Continuing
Test and Evaluation	WR	NAWC : China Lake, CA	0.595	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation	WR	NSWC : Carderock, MD	1.066	0.143	Mar 2019	0.000		0.500	Dec 2020	-		0.500	Continuing	Continuing	Continuing
Test and Evaluation	SS/CPFF	ARL/UT : Austin, TX	0.697	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation	SS/CPFF	SPAWAR : San Diego, CA	1.195	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing

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<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System	<b>Project (Number/Name)</b> 3326 / NSW Rapid Capabilities Development for CIEC
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<b>Test and Evaluation (\$ in Millions)</b>				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 and Evaluation	WR	SPAWAR : Charleston, SC	1.050	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation -WR	WR	SPAWAR : San Diego, CA	1.254	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation	SS/FFP	ARL/PSU : State College, PA	1.540	0.000		0.300	Oct 2019	0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation	WR	NRL : Washington, DC	0.300	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation	WR	NSWC : Indian Head, MD	1.862	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation	Various	Various : Various	2.274	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation	SS/FFP	NSWC : Panama City, FL	0.539	0.000		0.000		0.000		-		0.000	0.000	0.539	-
Test and Evaluation-WR	WR	NSWC : Dahlgren, VA	1.317	0.185	Dec 2018	0.500	Dec 2019	1.500	Mar 2021	-		1.500	0.000	3.502	-
Test and Evaluation	SS/FFP	NSWC : Dahlgren, VA	0.512	0.000		0.000		0.000		-		0.000	0.000	0.512	-
Test and Evaluation	SS/CPFF	APL/JHU : Laurel, MD	0.125	0.065	Apr 2019	0.000		0.000		-		0.000	0.000	0.190	-
Test and Evaluation	SS/CPFF	Army Research Lab. : Adelphia, MD	0.247	0.000		0.000		0.000		-		0.000	0.000	0.247	-
Test and Evaluation	SS/CPFF	PNNL : Richland, WA	0.130	0.000		0.000		0.000		-		0.000	0.000	0.130	-
Test and Evaluation	C/CPFF	Georgia Tech : Atlanta, GA	1.634	0.000		0.000		0.000		-		0.000	0.000	1.634	-
Test and Evaluation	C/CPFF	Charles River : Cambridge, MA	0.521	0.000		0.000		0.000		-		0.000	0.000	0.521	-
Test and Evaluation	C/CPFF	L3 Comm : Burlington, MA	0.972	0.000		0.000		0.000		-		0.000	0.000	0.972	-
Test and Evaluation	C/CPFF	QinetiQ NA : Waltham, MA	0.704	0.000		0.000		0.000		-		0.000	0.000	0.704	-

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

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System	<b>Project (Number/Name)</b> 3326 / NSW Rapid Capabilities Development for CIEC
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<b>Test and Evaluation (\$ in Millions)</b>				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 and Evaluation	WR	NAVAIR : Patuxent, MD	0.000	1.123	Mar 2019	0.000		0.000		-		0.000	0.000	1.123	-
Test and Evaluation	SS/CPFF	Strategos Consulting : Coronado, Ca	0.178	0.000		0.000		0.000		-		0.000	0.000	0.178	-
Test and Evaluation	WR	NAVAIR : San Diego, CA	0.425	0.000		0.000		0.000		-		0.000	0.000	0.425	-
Test and Evaluation	SS/CPFF	NSMA : Wash, DC	3.069	0.000		0.500	Jan 2020	0.000		-		0.000	0.000	3.569	-
Test and Evaluation	C/CPFF	Advanced Systems : Manassas, VA	0.150	0.000		0.000		0.000		-		0.000	0.000	0.150	-
Test and Evaluation	SS/CPFF	NAVSEA : Washington, DC	0.750	1.957	Nov 2018	4.000	Nov 2019	2.116	Dec 2020	-		2.116	0.000	8.823	-
Test and Evaluation	WR	NSWC : Crane, IN	1.136	0.000		0.250	Oct 2019	0.200	Jan 2021	-		0.200	0.000	1.586	-
Test and Evaluation	Reqn	ANL : Chicago, IL	0.114	0.000		0.100	Oct 2019	0.000		-		0.000	0.000	0.214	-
Test and Evaluation	WR	NUWC : Keyport, RI	0.348	0.000		0.000		0.000		-		0.000	0.000	0.348	-
Test and Evaluation	SS/CPFF	General Atomics : San Diego, CA	1.923	0.000		0.000		0.000		-		0.000	0.000	1.923	-
Test and Evaluation	SS/CPFF	ASSETT : Manassas, VA	0.930	0.000		0.000		0.000		-		0.000	0.000	0.930	-
Test and Evaluation	SS/CPFF	Battelle : Columbus, OH	1.869	0.000		0.000		0.000		-		0.000	0.000	1.869	-
Test and Evaluation	SS/CPFF	WHOI : Woods Hole, MA	0.225	0.000		0.000		0.000		-		0.000	0.000	0.225	-
Test and Evaluation	SS/CPFF	Boeing : Seattle, WA	0.300	0.000		0.000		0.000		-		0.000	0.000	0.300	-
Test and Evaluation	SS/CPFF	AeroVironment : Monrovia, CA	0.525	0.000		0.000		0.000		-		0.000	0.000	0.525	-
Test and Evaluation	SS/CPFF	Northrup Grumman : Falls Church, VA	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Test and Evaluation	C/CPFF	IN POWER : Morrisville, NC	0.292	0.000		0.000		0.000		-		0.000	0.000	0.292	-
Test and Evaluation-WR	WR	NSWC : Panama City, FL	0.397	0.670	Dec 2018	0.269	Oct 2019	1.500	Jan 2021	-		1.500	0.000	2.836	-



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2021 Navy		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System	<b>Project (Number/Name)</b> 3326 / NSW Rapid Capabilities Development for CIEC

FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
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 3326</b>	
System Development: Technology Assessments/Demonstrations	
System Development: Test and Evaluations	

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Navy		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / <i>Warfare Support System</i>	<b>Project (Number/Name)</b> 3326 / <i>NSW Rapid Capabilities Development for CIEC</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 3326</b>				
System Development: Technology Assessments/Demonstrations	1	2019	4	2025
System Development: Test and Evaluations	1	2019	4	2025

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 1319 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System				<b>Project (Number/Name)</b> 4011 / Naval Coastal Warfare Surv and C4I Sys			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
4011: <i>Naval Coastal Warfare Surv and C4I Sys</i>	52.023	2.977	0.771	0.793	-	0.793	0.808	0.819	0.836	0.853	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

The Navy Expeditionary project supports the Navy Expeditionary Combat Command (NECC) mission to detect, deter or interdict potential threats to DoN assets using agile, modular and scalable technology. NECC units have a number of current and future Command, Control, Communications, Computers & Intelligence (C4I) technological requirements for Tactical/Command Operations Center, tactical vehicles, combatant craft, and dismounted personnel. NECC operations require units to maintain effective command and control, develop and display a common tactical picture, and share intelligence and current operational information with higher headquarters, subordinate units, joint forces and coalition allies. Small, Medium and Large Scale Communication Systems (LSCS) are the C4I hub for the NECC; Navy Enterprise Tactical Command and Control (NETC2) is the converged LSCS baseline. Future C4I research and development include enhanced information transport, network cyber security posture, cloud-based architecture, assured communications in denied environments along with agility and mobility. Funding also supports testing and evaluation of cyber security issue associated with obsolescence of network items and if not addressed will impact the ability of the Program Office to maintain system accreditation under Risk Management Framework (RMF) revoking multiple LSCS assets authority to connectivity on the Department of Defense Information Network (DoDIN). Efforts are in alignment with NECC's strategic Expeditionary Warfare Improvement Program (EXWIP) Integrated Priority Capability List (IPCL) priorities and maintain alignment with greater DoD initiatives, such as Joint Information Environment (JIE), Mission Partner Environment (MPE) in order to maintain interoperability and drive down DoN enterprise costs.

The future of large scale communications assets such as Navy Enterprise Tactical Command and Control (NETC2) (V) 1 and 2, Expeditionary Mine Countermeasures (ExMCM), Assured Command and Control (AC2), will be converging to a Common Expeditionary and Shore Baseline (CESB) culminating in a single RMF Authority to Operate (ATO). Next generation air, surface and subsurface surveillance systems, as well as enhanced C4I capabilities, are required to meet operational objectives. Future technologies are being evaluated as enabling capabilities to expand situational awareness, providing additional tactical decision aids to the local area commander. Future C4I research and development efforts will be identified within NECC strategic Expeditionary Warfare Improvement Program (EXWIP) Integrated Priority Capability List (IPCL) priorities to increase agility, mobility and network security posture. Additional efforts will be driven by greater DoD initiatives, such as Joint Information Environment (JIE) Inc II, in order to maintain interoperability and drive down DoN enterprise costs. Funding has been realigned out of PE 0604230N Project 0411, into PE 0604280N as part of RDTEN PE Consolidation starting in FY20.

Identity Dominance System (IDS) supports the Navy's Visit, Board, Search and Seizure (VBSS) teams conducting Expanded Maritime Interception Operations (MIO) with a biometric capability. IDS provides the Navy with a means to collect and process identity information in the conduct of maritime and expeditionary operations. There are three key aspects of this capability: 1) Enable forces to rapidly identify unknown individuals encountered in the conduct of operations. 2) Verify an unknown individual's claimed identity. 3) Enable forces to update, manage, and share identity information on friendly, neutral, and enemy individuals in support of identity operations (IdOps). To support IdOps and achieve identity dominance for expeditionary and naval forces, the future biometrics collection and processing equipment needs to be smaller, lighter, and more efficient with respect to computing power and speed when compared against the current system. The equipment needs to take

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy	<b>Date:</b> February 2020
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<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System	<b>Project (Number/Name)</b> 4011 / Naval Coastal Warfare Surv and C4I Sys
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advantage of enhanced communications capabilities, be able to store the appropriate amount of data to collect biometric samples, match the samples against an internal database and reach near real time operations with connectivity to the DoD biometrics database. In addition to Navy VBSS MIO, IDS also supports the Expeditionary Exploitation Unit One (EXU-1) expeditionary missions. IDS must continue to mature and adapt to the changing threat environment and emerging requirements to support these missions.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p><b>Title:</b> Identity Dominance System</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> The Identity Dominance System (IDS) is facing obsolescence and is scheduled for a technology refresh in FY20 to field a sustainable system, reduce maintenance and sustainment costs, improve system capabilities, and eliminate performance shortfalls.</p> <p><b>FY 2020 Plans:</b> IDS will continue to develop Software (S/W) for technology refresh. IDS will support the Hardware (H/W) vendor with First Article Delivery tests to verify delivery is what is needed by the warfighter. IDS will continue to integrate S/W onto H/W. Environmental tests will be completed to confirm that the new device will function in the harsh operational environment. Verification and System tests will be completed to ensure the new device works as intended. Vulnerability tests will continue to be conducted to ensure that both current system and tech refresh system is not vulnerable to cyber attacks. Windows 7 baseline will continue to be updated via Engineering Change Proposals for enhancements and Information Assurance until the Windows 7 baseline system is completely replaced by the tech refresh system. IDS will increase and support the Counter-IED and Force Protection efforts to those individuals deployed. The continued efforts of building a database of suspected enemies to the United States will allow potential threats to be identified at foreign access control points and in international waters.</p> <p><b>FY 2021 Base Plans:</b> IDS will finish Software (S/W) for technology refresh. IDS will conduct Military Utility Assessments with the new device and will make necessary changes to S/W code or Hardware (H/W). Windows 7 baseline will continue to be updated via Engineering Change Proposals for enhancements and Information Assurance until the Windows 7 baseline system is completely replaced by the tech refresh system. IDS will increase and support the Counter-IED and Force Protection efforts to those individuals deployed. The continued efforts of building a database of suspected enemies to the United States will allow potential threats to be identified at foreign access control points and in international waters.</p> <p><b>FY 2021 OCO Plans:</b></p>	0.738	0.771	0.793	0.000	0.793
	-	-	-	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System	<b>Project (Number/Name)</b> 4011 / Naval Coastal Warfare Surv and C4I Sys

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
N/A					
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> Accounting for test event closure for system test.					
<b>Title:</b> NECC C4ISR Modernization	2.239	0.000	0.000	0.000	0.000
<b>Articles:</b>	-	-	-	-	-
<b>FY 2020 Plans:</b> FY20 funding has been realigned to PE 0604280N Project 0411 as part of PE Consolidation					
<b>FY 2021 Base Plans:</b> N/A					
<b>FY 2021 OCO Plans:</b> N/A					
<b>Accomplishments/Planned Programs Subtotals</b>	2.977	0.771	0.793	0.000	0.793

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<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>
• OPN/8120: <i>Maritime Expeditionary Security Force</i>	3.576	9.503	6.845	-	6.845	7.022	7.100	7.173	0.000	0.000	157.162
• OPN/8128: <i>Biometrics</i>	2.883	2.914	0.250	-	0.250	0.250	0.250	0.250	0.000	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

Funding supports an evolutionary acquisition strategy supporting the dynamically evolving rapid action mission of Navy Expeditionary Forces. Small, Medium and Large Scale Communication Systems (LSCS) funding will align LSCS to the Deployable Joint Command and Control (DJC2) product baseline. The project will continuously analyze operational utilization of the systems and will roll analysis results into periodic system upgrades to address cyber security vulnerabilities, obsolescence, and maximize operational effectiveness. The intent of this strategy is to drive down development, production, and logistics costs, while leveraging technologies developed for other agencies to increase the capabilities of Navy Expeditionary Forces. The baseline configuration for Large Scale Communication Systems (LSCS) is the Navy Enterprise Tactical Command and Control (NETC2), a system scalable to Adaptive Force Package (AFP) levels. Efforts include development of capabilities based on emergent requirements, operational feedback, alignment with Dept. of Defense initiatives such as Joint Information Environment (JIE) / Mission Partner Environment,

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / <i>Warfare Support System</i>	<b>Project (Number/Name)</b> 4011 / <i>Naval Coastal Warfare Surv and C4I Sys</i>

and identification through strategic Expeditionary and Warfare Improvement Program (EXWIP) Integrated Priority Capability List (IPCL) priorities to include reach back for tactical vehicles and craft, blue force tracking, tactical data link capability, and sensor technologies in support of surveillance and reconnaissance missions.

Identity Dominance System (IDS) will continue to provide a biometric capability to the Navy's expeditionary/forward deployed forces through system upgrades and further collaboration with other biometric stakeholders. The funding supports development and integration of new capabilities designed to enhance the overall performance of IDS and improve our Nation's security posture abroad and in CONUS. The program continually assesses the threat environment, security posture, operational requirements, and DOD and Navy policies related to Identity Operations and Force Protection. The program will evaluate, integrate, and field new capabilities to Maritime and Expeditionary Forces.

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2021 Navy</b>											<b>Date:</b> February 2020				
<b>Appropriation/Budget Activity</b> 1319 / 5						<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System					<b>Project (Number/Name)</b> 4011 / Naval Coastal Warfare Surv and C4I Sys				

<b>Product Development (\$ in Millions)</b>				<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021 Base</b>		<b>FY 2021 OCO</b>		<b>FY 2021 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Systems Engineering - Expeditionary	WR	NIWC LANT : CHARLESTON, SC	2.372	0.401	Nov 2018	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Systems Engineering - Expeditionary	WR	NSWC : PANAMA CITY, FL	4.374	0.706	Nov 2018	0.000		0.000		-		0.000	0.000	5.080	Continuing
Hardware/Software Development	WR	NSWC DAHLGREN : DAHLGREN	4.016	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Hardware/Software Development	WR	NSWC CRANE : CRANE	1.450	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Systems Engineering - IDS	WR	NSWC : DAHLGREN	7.148	0.251	Jan 2019	0.250	Jan 2020	0.240	Jan 2021	-		0.240	Continuing	Continuing	Continuing
Hardware/Software Development - IDS	WR	NSWC : DAHLGREN	0.232	0.245	Jan 2019	0.271	Mar 2020	0.153	Jan 2021	-		0.153	Continuing	Continuing	Continuing
Hardware/Software Development	C/CPAF	GTRI : ATLANTA, GA	0.000	0.000		0.000		0.000		-		0.000	0.000	0.000	-
Product Development Prior Years	Various	Various : Various	10.174	0.000		0.000		0.000		-		0.000	0.000	10.174	10.174
<b>Subtotal</b>			29.766	1.603		0.521		0.393		-		0.393	Continuing	Continuing	N/A

**Remarks**  
FY20 Navy Expeditionary cost data is provided under PE 0604280N Project 0411

<b>Support (\$ in Millions)</b>				<b>FY 2019</b>		<b>FY 2020</b>		<b>FY 2021 Base</b>		<b>FY 2021 OCO</b>		<b>FY 2021 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Technical Data	WR	NSWC : CRANE	0.260	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Technical Data	WR	NSWC : DAHLGREN	0.187	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Support Prior Years	Various	Various : Various	5.206	0.000		0.000		0.000		-		0.000	0.000	5.206	5.206
<b>Subtotal</b>			5.653	0.000		0.000		0.000		-		0.000	Continuing	Continuing	N/A

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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 0604230N / Warfare Support System				4011 / Naval Coastal Warfare Surv and C4I Sys							
<b>Test and Evaluation (\$ in Millions)</b>				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 & Evaluation - IDS	WR	NSWC : DAHLGREN	0.331	0.242	Jan 2019	0.250	Mar 2020	0.400	Jan 2021	-		0.400	Continuing	Continuing	Continuing
Test & Evaluation - Expeditionary	WR	NSWC : PANAMA CITY, FL	2.158	0.614	Nov 2018	0.000		0.000		-		0.000	0.000	2.772	-
<b>Subtotal</b>			2.489	0.856		0.250		0.400		-		0.400	Continuing	Continuing	N/A
<b>Management Services (\$ in Millions)</b>				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
Management Services Prior Years	Various	Various : Various	0.275	0.000		0.000		0.000		-		0.000	0.000	0.275	0.275
Program Management Support - Expeditionary	WR	NIWC LANT : CHARLESTON, SC	0.794	0.264	Nov 2018	0.000		0.000		-		0.000	0.000	1.058	Continuing
Program Management Support - Expeditionary	WR	NIWC PAC : SAN DIEGO, CA	1.521	0.254	Nov 2018	0.000		0.000		-		0.000	0.000	1.775	Continuing
Program Management Support	Various	Various : Various	5.388	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Management Support - IDS	WR	NSWC : DAHLGREN	5.075	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Program Management Support - IDS	WR	NSWC : CRANE	1.062	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
<b>Subtotal</b>			14.115	0.518		0.000		0.000		-		0.000	Continuing	Continuing	N/A
<b>Project Cost Totals</b>			52.023	2.977		0.771		0.793		-		0.793	Continuing	Continuing	N/A
<b>Remarks</b>															

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2021 Navy		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System	<b>Project (Number/Name)</b> 4011 / Naval Coastal Warfare Surv and C4I Sys

FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
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 4011</b>	
Acquisition Milestones: Identity Dominance System (IDS): IDS Tech Refresh Contract Award	■
Acquisition Milestones: Identity Dominance System (IDS): IDS ECP 0022 CCB	■
Acquisition Milestones: Identity Dominance System (IDS): IDS Tech Refresh Fielding	■
System Development: NECC C4ISR Development: Navy C4I Test and Certification Events FY19	■
System Development: NECC C4ISR Development: NETC2 Capability Development	■
System Development: Identity Dominance System (IDS): IDS Tech Refresh Development and Testing	■
Production: NECC C4ISR Procurement: LSCS Upgrades/Refresh	■
Production: NECC C4ISR Procurement: Tactical Vehicles and Combatant Crafts PR/ TR	■
Production: NECC C4ISR Procurement: Expeditionary VHF/UHF/SATCOM (EVUS) UHF TACSAT Upgrade	■
Production: NECC C4ISR Procurement: Expeditionary SIPR/NIPR Network Upgrades/ Refresh	■

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**Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy** **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System	<b>Project (Number/Name)</b> 4011 / Naval Coastal Warfare Surv and C4I Sys
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	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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

Production: NECC C4ISR Procurement: Converged IP																												
Production: NECC C4ISR Procurement: VoISP																												
Production: Identity Dominance System (IDS): IDS Tech Refresh Production																												
Technology Roadmap: Identity Dominance System (IDS): IDS Tech Refresh Program Documentation Review/Update																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2021 Navy		<b>Date:</b> February 2020
<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System	<b>Project (Number/Name)</b> 4011 / Naval Coastal Warfare Surv and C4I Sys

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 4011</b>				
Acquisition Milestones: Identity Dominance System (IDS): IDS Tech Refresh Contract Award	2	2019	2	2019
Acquisition Milestones: Identity Dominance System (IDS): IDS ECP 0022 CCB	2	2021	2	2021
Acquisition Milestones: Identity Dominance System (IDS): IDS Tech Refresh Fielding	3	2021	4	2022
System Development: NECC C4ISR Development: Navy C4I Test and Certification Events FY19	3	2019	3	2019
System Development: NECC C4ISR Development: NETC2 Capability Development	1	2019	4	2019
System Development: Identity Dominance System (IDS): IDS Tech Refresh Development and Testing	1	2019	2	2021
Production: NECC C4ISR Procurement: LSCS Upgrades/Refresh	1	2019	4	2019
Production: NECC C4ISR Procurement: Tactical Vehicles and Combatant Crafts PR/TR	1	2019	4	2019
Production: NECC C4ISR Procurement: Expeditionary VHF/UHF/SATCOM (EVUS) UHF TACSAT Upgrade	1	2019	4	2019
Production: NECC C4ISR Procurement: Expeditionary SIPR/NIPR Network Upgrades/Refresh	1	2019	4	2019
Production: NECC C4ISR Procurement: Converged IP	1	2019	4	2019
Production: NECC C4ISR Procurement: VoISP	1	2019	4	2019
Production: Identity Dominance System (IDS): IDS Tech Refresh Production	1	2020	3	2020
Technology Roadmap: Identity Dominance System (IDS): IDS Tech Refresh Program Documentation Review/Update	1	2019	4	2022

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 1319 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System				<b>Project (Number/Name)</b> 9C86 / Combatant Craft Replacement			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
9C86: <i>Combatant Craft Replacement</i>	9.863	0.655	1.083	1.206	-	1.206	0.942	0.901	0.918	0.937	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

Navy Expeditionary Combat patrol boats, Fleet Expeditionary Security combatant craft, Underwater Construction Team (UCT) and Explosive Ordnance Disposal (EOD) replacement will provide second generation Multi Mission Craft that will replace in-service Force Protection Large, Force Protection Small, Underwater Construction and EOD craft. Boat and craft replacements will: conduct Maritime Security Operations across the full spectrum of naval, joint, and combined operations enabling access and freedom of action throughout the sea-to-shore and inland operating environments as well as conduct maritime Mine Countermeasures (MCM), counter Improvised Explosive Devices (IEDs), Weapons of Mass Destruction (WMD), and all other types of weaponry, for protection of naval and joint assets required for sea control and power projection. Specific mission and capabilities will be identified in an Initial Capabilities Document (ICD), Analysis of Alternatives (AoA), Capabilities Production Document (CPD) and required milestone documentation. RDT&E funding will fund procurement and material solution studies, advanced technology development and studies, design development and test and evaluation.

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

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<b>Title:</b> Combatant Craft Replacement	0.655	1.083	1.206	0.000	1.206
<b>Articles:</b>	-	-	-	-	-
<b>Description:</b> The boats and craft in the Navy Expeditionary Combat Command (NECC) fleet are reaching the end of their service lives and will create a capability gap if not replaced. Funding supports design/development and testing of NECC's next generation Expeditionary Combat Patrol Boat or 40 Patrol Boat (40PB) and other NECC craft.					
<b>FY 2020 Plans:</b> Continuing material solution development and advanced technology development as well as beginning planning, research, analysis, design and development to recapitalize other NECC craft. Continue science and technology development work to optimize material solutions to fill critical NECC capability gaps. Begin development of lethal and non-lethal sensors/effectors.					
<b>FY 2021 Base Plans:</b> Continuing material solution development and advanced technology development as well as continuing planning, research, analysis, design and development to recapitalize other NECC craft. Continue science					

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

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System	<b>Project (Number/Name)</b> 9C86 / Combatant Craft Replacement
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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
and technology development work to optimize material solutions to fill critical NECC capability gaps. Begin development of lethal and non-lethal sensors/effectors.  <b>FY 2021 OCO Plans:</b> N/A  <b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> FY 2021 funding increase in support of Combatant Craft Replacement.					
<b>Accomplishments/Planned Programs Subtotals</b>	0.655	1.083	1.206	0.000	1.206

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<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>
• OPN/1210: <i>Standard Boats (NECC)</i>	29.479	17.220	13.254	-	13.254	12.534	12.766	13.219	13.133	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**  
Acquisition of RDT&E developed craft material solution and technology to be accomplished using "tailored" commercial procurements in accordance with a PMS325G approved/OPNAV endorsed NECC Craft Replacement Acquisition Strategy.



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**Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy** **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / Warfare Support System	<b>Project (Number/Name)</b> 9C86 / Combatant Craft Replacement
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Proj 9C86	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025							
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
Combatant & Fleet Expeditionary Craft Design Studies																																
Combatant & Fleet Expeditionary Craft Awards																																
Combatant & Fleet Expeditionary Craft Deliveries																																
Craft Test and Evaluation																																
Selection of Craft/Systems for Production																																
Selection of Lethal and Non-Lethal Sensors/Effectors																																
Integration of Lethal and Non-Lethal Sensors/Effectors																																

2021DON - 0604230N - 9C86

**UNCLASSIFIED**

**Exhibit R-4A, RDT&E Schedule Details:** PB 2021 Navy **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604230N / <i>Warfare Support System</i>	<b>Project (Number/Name)</b> 9C86 / <i>Combatant Craft Replacement</i>
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Proj 9C86</i></b>				
Combatant & Fleet Expeditionary Craft Design Studies	1	2019	2	2021
Combatant & Fleet Expeditionary Craft Awards	1	2019	4	2022
Combatant & Fleet Expeditionary Craft Deliveries	1	2019	4	2022
Craft Test and Evaluation	1	2019	4	2022
Selection of Craft/Systems for Production	1	2019	4	2022
Selection of Lethal and Non-Lethal Sensors/Effectors	1	2020	4	2021
Integration of Lethal and Non-Lethal Sensors/Effectors	1	2021	4	2022