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

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604230N / <i>Warfare Support System</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	56.017	9.050	5.875	13.237	-	13.237	12.251	10.380	9.956	10.164	Continuing	Continuing
3326: <i>NIWO Rapid Capabilities Development for CIC</i>	13.992	4.950	2.373	6.708	-	6.708	6.250	5.332	5.458	5.571	Continuing	Continuing
4011: <i>Naval Coastal Warfare Surv and C4I Sys</i>	38.703	3.340	2.944	3.406	-	3.406	3.903	3.717	3.650	3.725	Continuing	Continuing
9C86: <i>Combatant Craft Replacement</i>	3.322	0.760	0.558	3.123	-	3.123	2.098	1.331	0.848	0.868	Continuing	Continuing

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 will develop and deploy adaptive force packages (AFPs) tailored for the specific missions to achieve greater efficiency and combat readiness. NECC units have a number of current and future Command, Control, Communications, Computers & Intelligence (C4I) technological requirements for Tactical/Command Operations Center, vehicles, craft, personnel capabilities and SATCOM availability. Each NECC operation requires units to maintain effective command and control, develop and display a tactical picture, and share intelligence and current operational information with higher, adjacent, and subordinate headquarters. These capabilities must be interoperable with higher and adjacent echelons of command (to include coalition allies) as well as with supporting elements to include joint forces. Small, Medium and/or Large Scale Communication Systems (LSCS) are the C4I hub for the NECC Forces. LSCS suites are interoperable with joint systems and include communications HF, VHF, and UHF in all common modes with encrypted and clear voice and data, to include Tactical Data Link Network capability. The future of large scale communications assets such as Mobile Ashore Support Terminal (MAST), Ruggedized Deployable Satellite/Tactical Data Network (RDSAT/TDN) and Deployable Expeditionary Network-Medium (DEXNet-M) supporting Surveillance Control Central, Expeditionary (ESCC) formerly Radar Sonar Surveillance Center (RSSC) will be converging to a common baseline, the Navy Enterprise Tactical Command and Control (NETC2). 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's 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.

The Expeditionary Warfare Decision System (EWDS) (formerly Tactically Integrated Sensors (TIS) software constitutes an upgrade to the MAST-RSSC and is being executed as a separate Abbreviated Acquisition Program. The AAP will enable the deployment of a currently fielded Program of Record (POR) combat system (AN/SQQ-34C) known as Tactically Integrated Sensors (TIS) to the CRF units. TIS system restores the acoustic surveillance capability that has been eroded from the current RSSC suite. Additionally, future multi-spectral technologies are being looked at as enabling capabilities to expand the situational awareness of the littoral region, providing additional tactical decision aids to the local area commander.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604230N / <i>Warfare Support System</i>	
<p>This funding supports the Identity Dominance System (IDS) as key enabler in support of the Joint Personnel Identity (JPI) program. MESF forces 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 NCW is charged with protecting. The Vessel Boarding 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 Identity Dominance System Capability Development Document (IDS CDD) and implemented in the Identity Dominance System Capability Production Document (IDS CPD). IDS is used in the following environments: aboard ship and ashore in ports, the littorals and extended inland field environments worldwide. IDS is employed in maritime and very austere ashore environments and carried by individuals who are part of ship boarding parties and disembarked patrols. These mission and environmental demands dictate a portable, lightweight, rugged, 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.</p> <p>Coastal Riverine Force will integrate and employ a variety of surface and air assets, special vehicles, weapons and appropriately trained personnel. Mission assets needed to support the operational capabilities will vary widely dependent on the Host Nations involved. The Riverine Squadron will deploy with inherent, but limited, force protection capabilities. The Modular Unmanned Scouting Craft Littoral (MUSCL), is man-portable "X-Class" Unmanned Surface Vehicle providing enhanced surveillance and reconnaissance capability to Naval Expeditionary Combat Command (NECC) Riverine forces.</p> <p>This program supports the Navy Expeditionary Innovations Warfare Branch formerly known as the Navy Irregular Warfare (IW) Office to identify and assess available technologies that confront current and future expeditionary challenges. These challenges include irregular warfare and urgent/emergent and unfulfilled needs of the warfighter as outlined in Joint Urgent Operational Needs (JUON), Navy Urgent Operational Needs (UON), Marine Corps Urgent Universal Needs (UUN), and/or support rapid insertion into a Department of Navy (DoN) Program of Record (PoR) or other acquisition programs. Program funding provides for validation and combat demonstration of identified technologies and/or packages of technologies to meet Oversea Contingency Operation (OCO) goals and supports additional investment and sustainment of demonstrated capabilities. The goal of the Navy Expeditionary Warfare Innovations Branch office is to: identify those requirements necessary to meet immediate and future warfighter needs; integrate those existing unique and/or related capabilities that can best meet those warfighter needs; test those integrated capabilities; and then demonstrate in real time and/or during planned deployments within a 6-24 month period.</p> <p>Combatant Craft Replacements 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.</p>		

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Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604230N / <i>Warfare Support System</i>
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B. Program Change Summary (\$ in Millions)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Previous President's Budget	9.094	5.875	12.269	-	12.269
Current President's Budget	9.050	5.875	13.237	-	13.237
Total Adjustments	-0.044	0.000	0.968	-	0.968
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.044	0.000			
• Program Adjustments	0.000	0.000	1.500	-	1.500
• Rate/Misc Adjustments	0.000	0.000	-0.532	-	-0.532

Change Summary Explanation

The FY 2016 funding request was reduced by -\$3.9 million to account for the availability of prior year execution balances.

The FY 2017 funding request was reduced by -\$0.350 million to account for the availability of prior year execution balances and by -\$0.129 million as required for the Department of the Navy to comply with the Bipartisan Budget Act of 2015.

Technical: Not applicable.

Schedule: Not applicable.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604230N / Warfare Support System				Project (Number/Name) 3326 / NIWO Rapid Capabilities Development for CIC			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
3326: NIWO Rapid Capabilities Development for CIC	13.992	4.950	2.373	6.708	-	6.708	6.250	5.332	5.458	5.571	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program supports the Navy Expeditionary Innovations Warfare Branch formerly known as the Navy Irregular Warfare (IW) Office to identify and assess available technologies that confront current and future expeditionary challenges. These challenges include irregular warfare and urgent/emergent and unfulfilled needs of the warfighter as outlined in Joint Urgent Operational Needs (JUON), Navy Urgent Operational Needs (UON), Marine Corps Urgent Universal Needs (UUN), and/or support rapid insertion into a Department of Navy (DoN) Program of Record (PoR) or other acquisition programs. Program funding provides for validation and combat demonstration of identified technologies and/or packages of technologies to meet Oversea Contingency Operation (OCO) goals and supports additional investment and sustainment of demonstrated capabilities. The goal of the Navy Expeditionary Warfare Innovations Branch office is to: identify those requirements necessary to meet immediate and future warfighter needs; integrate those existing unique and/or related capabilities that can best meet those warfighter needs; test those integrated capabilities; and then demonstrate in real time and/or during planned deployments within a 6-24 month time period. Those areas of capability to be investigated by the Expeditionary Warfare Innovations Branch include any or all of the following:

- Persistent Intelligence Surveillance Reconnaissance (ISR)
- Close-in, Expeditionary ISR
- Conventional Forces Support to SOF
- Rotary Wing Support to SOF
- All source intelligence fusion
- Littoral precision strike capability
- Unmanned Vehicles (Undersea/Air/Surface/Ground vehicles for Mine/ISR/Strike/Surveillance/Detection/IED capabilities)

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Navy Irregular Warfare	4.950	2.373	6.708	0.000	6.708
Articles:	-	-	-	-	-
Description: The FY16 funding request was reduced, and rephrased to FY17 and FY18, by -\$2.7 million to account for the availability of prior year execution balances.					
FY 2015 Accomplishments: Identified, assessed, integrated and tested available close-in expeditionary ISR and littoral precision strike technologies in support of the Navy Expeditionary Warfare missions, including Irregular Warfare, supporting the					

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604230N / Warfare Support System	Project (Number/Name) 3326 / NIWO Rapid Capabilities Development for CIC

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
warfighter. Additional efforts to validate and demonstrate identified ISR and littoral precision strike technologies including payloads and platforms. Other technologies assessed/demonstrated in support of Confronting Expeditionary Warfare Challenges as available.					
<i>FY 2016 Plans:</i> Identify, assess, integrate and test available close-in expeditionary ISR and littoral precision strike technologies in support of the Navy Expeditionary Warfare missions, including Irregular Warfare, supporting the warfighter. Additional efforts to validate and demonstrate identified ISR and littoral precision strike technologies including payloads and platforms. Other technologies assessed/demonstrated in support of Confronting Expeditionary Warfare Challenges as available.					
<i>FY 2017 Base Plans:</i> Identify, assess, integrate and test available close-in expeditionary ISR and littoral precision strike technologies in support of the Navy Expeditionary Warfare missions, including Irregular Warfare, supporting the warfighter. Additional efforts to validate and demonstrate identified ISR and littoral precision strike technologies including payloads and platforms. Other technologies assessed/demonstrated in support of Confronting Expeditionary Warfare Challenges as available.					
<i>FY 2017 OCO Plans:</i> N/A					
Accomplishments/Planned Programs Subtotals	4.950	2.373	6.708	0.000	6.708

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

N/A

Remarks

D. Acquisition Strategy

Identify, integrate, test and demonstrate capabilities to meet the warfighter needs.

E. Performance Metrics

To successfully conduct technology reviews to confront expeditionary warfare challenges and successfully identify and validate identified technologies.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy												Date: February 2016			
Appropriation/Budget Activity 1319 / 5				R-1 Program Element (Number/Name) PE 0604230N / Warfare Support System				Project (Number/Name) 3326 / NIWO Rapid Capabilities Development for CIC							
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	0.500	0.100	Mar 2015	0.100	Jan 2016	0.000		-		0.000	Continuing	Continuing	Continuing
Program Management Spt	TBD	TBD : TBD	0.000	0.000		0.000		0.100	Feb 2017	-		0.100	0.000	0.100	-
Travel	WR	NAVSEA/HQ : Washington, DC	0.160	0.060	Dec 2014	0.060	Dec 2015	0.060	Dec 2016	-		0.060	Continuing	Continuing	Continuing
Subtotal			0.660	0.160		0.160		0.160		-		0.160	-	-	-
Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	1.796	0.000		0.000		0.000		-		0.000	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	0.239	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation	SS/CPFF	ARL/UT : Austin, TX	0.327	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
Test and Evaluation	WR	SPAWAR : Charleston, SC	1.050	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation	WR	SPAWAR : San Diego, CA	0.904	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation	SS/FFP	ARL/PSU : State College, PA	0.240	0.300	Apr 2015	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation	WR	NRL : Washington, DC	0.400	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation	WR	NSWC : Indian Head, MD	1.156	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Test and Evaluation	Various	Various : Various	1.827	0.447	Apr 2015	0.446	Apr 2016	0.496	Apr 2017	-		0.496	Continuing	Continuing	Continuing

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

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604230N / Warfare Support System	Project (Number/Name) 3326 / NIWO Rapid Capabilities Development for CIC
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Test and Evaluation (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test and Evaluation	SS/FFP	NSWC : Panama City, FL	0.264	0.000		0.000		0.000		-		0.000	0.000	0.264	-
Test and Evaluation	WR	NSWC : Dahlgren, VA	0.235	0.250	Mar 2015	0.000		0.450	Mar 2017	-		0.450	0.000	0.935	-
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	0.000		0.000		0.000		-		0.000	0.000	0.125	-
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	0.515	1.119	Mar 2015	0.260	Feb 2016	0.000		-		0.000	0.000	1.894	-
Test and Evaluation	C/CPFF	Charles River : Cambridge, MA	0.100	0.421	Mar 2015	0.000		0.000		-		0.000	0.000	0.521	-
Test and Evaluation	C/CPFF	L3 Comm : Burlington, MA	0.621	0.351	Mar 2015	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	-
Test and Evaluation	C/CPFF	TBD : TBD	0.000	0.000		1.507	Apr 2016	3.700	Apr 2017	-		3.700	0.000	5.207	-
Test and Evaluation	SS/CPFF	Strategos Consulting : Coronado, Ca	0.000	0.178	May 2015	0.000		0.000		-		0.000	0.000	0.178	-
Test and Evaluation	WR	NAVAIR : San Diego, CA	0.150	0.275	Sep 2015	0.000		0.000		-		0.000	0.000	0.425	-
Test and Evaluation	SS/CPFF	NSMA : Wash, DC	0.000	1.299	Mar 2015	0.000		1.902	Apr 2017	-		1.902	0.000	3.201	-
Test and Evaluation	C/CPFF	Advaned Systems : Manassas, VA	0.000	0.150	May 2015	0.000		0.000		-		0.000	0.000	0.150	-
Subtotal			13.332	4.790		2.213		6.548		-		6.548	-	-	-

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604230N / <i>Warfare Support System</i>	Project (Number/Name) 3326 / <i>NIWO Rapid Capabilities Development for CIC</i>

FISCAL YEARS	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021
NIWO	←		Technology Assessments/Demonstrations	→			
	←		Test and Evaluation	→			

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3326				
System Development: Technology Assessments/Demonstrations	1	2015	4	2021
System Development: Test and Evaluations	1	2015	4	2021

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604230N / Warfare Support System				Project (Number/Name) 4011 / Naval Coastal Warfare Surv and C4I Sys			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
4011: Naval Coastal Warfare Surv and C4I Sys	38.703	3.340	2.944	3.406	-	3.406	3.903	3.717	3.650	3.725	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 will develop and deploy adaptive force packages (AFPs) tailored for the specific missions to achieve greater efficiency and combat readiness. NECC units have a number of current and future Command, Control, Communications, Computers & Intelligence (C4I) technological requirements for Tactical/Command Operations Center, vehicles, craft, personnel capabilities and SATCOM availability. Each NECC operation requires units to maintain effective command and Control, develop and display a tactical picture, and share intelligence and current operational information with higher, adjacent, and subordinate headquarters. These capabilities must be interoperable with higher and adjacent echelons of command (to include coalition allies) as well as with supporting elements to include joint forces. Small, Medium and/or Large Scale Communication Systems (LSCS) are the C4I hub for the NECC Forces. LSCS suites are interoperable with joint systems and include communications HF, VHF, and UHF in all common modes with encrypted and clear voice and data, to include Tactical Data Link Network capability.

The future of large scale communications assets such as Mobile Ashore Support Terminal (MAST), Ruggedized Deployable Satellite/Tactical Data Network (RDSAT/TDN) and Deployable Expeditionary Network-Medium (DEXNet-M) supporting Surveillance Control Central, Expeditionary (ESCC) formerly Radar Sonar Surveillance Center (RSSC) will be converging to a common baseline, the Navy Enterprise Tactical Command and Control (NETC2). 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. Identity Dominance System (IDS) supports the Navy's Vessel Boarding Search and Seizure (VBSS) teams conducting Expanded Maritime Interception Operations with a biometric capability.

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: NECC C4ISR Modernization	2.619	2.699	2.377	0.000	2.377
Articles:	-	-	-	-	-
FY 2015 Accomplishments:					
Continued development of Navy Enterprise Tactical Command & Control (NETC2) capability sets to replace legacy Mobile Ashore Support Terminal (MAST), Deployable Expeditionary Network, Light (DEXNET-L), Deployable Expeditionary Network, Medium (DEXNET-M) in Coastal Riverine Force (CRF) inventory.					

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>Efforts included development of capabilities based on emergent requirements and operational feedback, to include reach back for tactical vehicles and craft in the coastal, littoral and riverine environments, tactical data link capability, and develop sensor technologies in support of harbor defense, littoral surveillance, and reconnaissance missions.</p> <p>FY 2016 Plans: Continue to align NETC2 efforts to emerging DoD technologies in order to enhance capabilities provided to the warfighter and continue to incorporate technologies in NETC2 test efforts in order to facilitate virtualization. Move Expeditionary common services to a Joint Information Environment (JIE) Core Data Center node using cloud infrastructure and inclusion of unique requirements into cloud generation.</p> <p>FY 2017 Base Plans: Further orientation to a multi-program baseline architecture while converging to the Joint Information Environment (JIE). Continue to incorporate Joint, DoD, and industry developed technologies in order to enhance NETC2 capabilities provided at the tactical edge while reducing system size, weight, power, and logistics infrastructure.</p> <p>FY 2017 OCO Plans: N/A</p>					
<p>Title: Identity Dominance System</p> <p align="right">Articles:</p> <p>Description: The increase in funding from FY16 to FY17 supports research and development efforts for the next increment of the Identity Dominance System (IDS).</p> <p>FY 2015 Accomplishments: Identity Dominance System (IDS) currently provides a critical biometric capability to the Navy's Vessel Boarding Search and Seizure (VBSS) teams conducting Expanded Maritime Interception Operations. The IDS has developed and established a hardware and software baseline for Windows 7 compliance via Engineering Change Proposal (ECP) 0003.</p> <p>FY 2016 Plans: IDS ECP 0003 will be finalized and implemented. Currently fielded IDS kits will be retrofitted with the ECP 0003 update. System fielding will continue through the FY. Research and development efforts will evaluate current</p>	0.721 -	0.245 -	1.029 -	0.000 -	1.029 -

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

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
technology available to support a technology refresh of the Identity Dominance System. This will support the development of a prioritized enhancement plan.					
<i>FY 2017 Base Plans:</i> As IDS achieves full operational capability (FOC) in FY17 and moves fully into the operations and lifecycle maintenance phase; Research, Development, Testing and Evaluation (RDT&E) efforts will continue to develop and assess upgrades and modifications to keep IDS relevant and effective through follow on Engineering Change Proposals (ECPs).					
<i>FY 2017 OCO Plans:</i> N/A					
Accomplishments/Planned Programs Subtotals	3.340	2.944	3.406	0.000	3.406

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

<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPN/8120: Maritime Expeditionary Security Force	24.459	9.929	9.073	-	9.073	9.224	9.446	6.574	9.590	Continuing	Continuing

Remarks

D. Acquisition Strategy

Funding supports an evolutionary acquisition strategy supporting the dynamically evolving rapid action mission of Navy Expeditionary Forces. 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 prevent 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 future baseline configuration for Large Scale Communication Systems (LSCS) will be the NETC2, a system scalable to Adaptive Force Package (AFP) levels. Efforts include development of capabilities based on emergent requirements, operational feedback, alignment with DoD initiatives such as Joint Information Environment (JIE) Inc II, 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.

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604230N / <i>Warfare Support System</i>	Project (Number/Name) 4011 / <i>Naval Coastal Warfare Surv and C4I Sys</i>

E. Performance Metrics

The Navy Expeditionary program continues to identify, evaluate and test a minimum of 3-5 new technologies or configurations per year for potential insertion into the Technical Refresh Plan, to be demonstrated at Fleet Demonstrations

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Navy												Date: February 2016				
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								
Product Development (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Systems Engineering	WR	SSC CH : CHARLESTON	0.750	0.380	Feb 2015	0.450	Nov 2015	0.405	Nov 2016	-		0.405	Continuing	Continuing	Continuing	
Systems Engineering	WR	NSWC : PANAMA CITY	0.000	1.800	Feb 2015	1.648	Nov 2015	1.554	Nov 2016	-		1.554	Continuing	Continuing	Continuing	
Hardware/Software Development	WR	NSWC DAHLGREN : DAHLGREN	3.816	0.000		0.000		0.200	Nov 2016	-		0.200	Continuing	Continuing	Continuing	
Hardware/Software Development	WR	NSWC CRANE : CRANE	1.450	0.000		0.000		0.100	Nov 2016	-		0.100	Continuing	Continuing	Continuing	
Systems Engineering6	WR	NSWC : DAHLGREN	6.059	0.000		0.000		0.405	Nov 2016	-		0.405	Continuing	Continuing	Continuing	
Product Development Prior Years	Various	Various : Various	10.174	0.000		0.000		0.000		-		0.000	0.000	10.174	10.174	
Subtotal			22.249	2.180		2.098		2.664		-		2.664	-	-	-	
Support (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	
Technical Data	WR	NSWC : CRANE	0.250	0.000		0.000		0.010	Nov 2016	-		0.010	Continuing	Continuing	Continuing	
Technical Data	WR	NSWC : DAHLGREN	0.175	0.000		0.000		0.012	Nov 2016	-		0.012	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	
Subtotal			5.631	0.000		0.000		0.022		-		0.022	-	-	-	
Management Services (\$ in Millions)				FY 2015		FY 2016		FY 2017 Base		FY 2017 OCO		FY 2017 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	WR	SSC CH : CHARLESTON, SC	0.000	0.211	Feb 2015	0.119	Nov 2015	0.220	Nov 2016	-		0.220	Continuing	Continuing	Continuing	

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604230N / Warfare Support System	Project (Number/Name) 4011 / Naval Coastal Warfare Surv and C4I Sys
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Proj 4011	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				
	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	
Acquisition Milestones																													
Identity Dominance System (IDS)																					▲								
System Development																													
Coastal Riverine Force (CRF) Modernization	EAVS VTC Upgrade																												
System Development																													
NECC C4ISR Development	SCSM Upgrades																												
		▲				▲				▲				▲				▲				▲				▲			
	NETC2 Capability Development																												
Production																													
NECC C4ISR Procurement	LSCS Upgrades/Refresh																												
	Tactical Vehicles and Combatant Crafts																												
	EVUS Upgrade																												
	Network Upgrades																												
	Converged IP																												
	VoISP																												

2017DON - 0604230N - 4011

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604230N / Warfare Support System	Project (Number/Name) 4011 / Naval Coastal Warfare Surv and C4I Sys

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 4011				
Acquisition Milestones: Identity Dominance System (IDS): IDS FOC	2	2017	2	2017
System Development: Coastal Riverine Force (CRF) Modernization: Expeditionary VTC Upgrade	1	2015	4	2015
System Development: Trailer Senso Platform EO/IR, Image Tracking,Radar Upgrades	1	2015	4	2015
System Development: SHF Comm System, Medium (SCSM) Ka Band Upgrade	1	2015	4	2015
System Development: NECC C4ISR Development: Navy C4I Test and Certification Events FY15	3	2015	3	2015
System Development: NECC C4ISR Development: Navy C4I Test and Certification Events FY16	3	2016	3	2016
System Development: NECC C4ISR Development: Navy C4I Test and Certification Events FY17	3	2017	3	2017
System Development: NECC C4ISR Development: Navy C4I Test and Certification Events FY18	3	2018	3	2018
System Development: NECC C4ISR Development: Navy C4I Test and Certification Events FY19	3	2019	3	2019
System Development: NECC C4ISR Development: Navy C4I Test and Certification Events FY20	3	2020	3	2020
System Development: NECC C4ISR Development: Navy C4I Test and Certification Events FY21	3	2021	3	2021
System Development: NECC C4ISR Development: NETC2 Capability Development	1	2015	4	2021
Production: NECC C4ISR Procurement: LSCS Upgrades/Refresh	1	2015	4	2021
Production: NECC C4ISR Procurement: Tactical Vehicles and Combatant Crafts PR/ TR	1	2015	4	2021

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604230N / <i>Warfare Support System</i>	Project (Number/Name) 4011 / <i>Naval Coastal Warfare Surv and C4I Sys</i>

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Production: NECC C4ISR Procurement: Expeditionary VHF/UHF/SATCOM (EVUS) UHF TACSAT Upgrade	1	2015	4	2021
Production: NECC C4ISR Procurement: Expeditionary SIPR/NIPR Network Upgrades/ Refresh	1	2016	4	2021
Production: NECC C4ISR Procurement: Converged IP	1	2016	4	2021
Production: NECC C4ISR Procurement: VoISP	1	2016	4	2021

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy										Date: February 2016		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604230N / Warfare Support System				Project (Number/Name) 9C86 / Combatant Craft Replacement			
COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
9C86: <i>Combatant Craft Replacement</i>	3.322	0.760	0.558	3.123	-	3.123	2.098	1.331	0.848	0.868	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Combatant Craft and Fleet Expeditionary Security Replacements will provide second generation Force Protection Multi Mission Craft that will replace in-service Force Protection Large, Force Protection Small, 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. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
Title: Combatant Craft Replacement	0.760	0.558	3.123	0.000	3.123
Articles:	-	-	-	-	-
Description: The increase in funding from FY16 to FY17 supports design/development of the Navy Expeditionary Combat Command (NECC) next generation Patrol Boat (PB-X).					
FY 2015 Accomplishments: Continued Future Combatant Craft design efforts including replacement program of legacy 33' Riverine Assault Boats, 33' Special Operations Craft Riverine, 34' Patrol Boats, and 39' Riverine Patrol Boats with a common combatant craft hull, mechanical, and electrical (HME) package. Continued to support MK VI PB Fleet Introduction Team boat and boat system familiarization support and training efforts. Began Combatant Craft System Development and Demonstration.					
FY 2016 Plans: Continue Future Combatant Craft design efforts including replacement program of legacy 33' Riverine Assault Boats, 33' Special Operations Craft Riverine, 34' Patrol Boats, and 39' Riverine Patrol Boats with a common combatant craft hull, mechanical, and electrical (HME) package. Continue to support MK VI PB Fleet Introduction Team boat and boat system familiarization support and training efforts. Continue Combatant Craft System Development and Demonstration.					
FY 2017 Base Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2017 Navy		Date: February 2016
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604230N / Warfare Support System	Project (Number/Name) 9C86 / Combatant Craft Replacement

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total
<p>The Navy Expeditionary Combat Command (NECC) fleet of craft are reaching their end of service life and will create a capability gap if they are not replaced. The replacement will be a phased approach and begin with the recapitalization of the fleet maritime expeditionary security force, Force Protection - Small (25-ft Patrol Boats) and Force Protection - Large (34-ft PBs), with the design development and procurement of Patrol Boat X (PB-X). The fleet maritime expeditionary security force patrol green water littoral zones such as coastal water approaches, bays, major rivers, ports, and harbors for surface presence, detection and response as well as a host of other missions.</p> <p>Conduct planning, research, analysis, design and developmental/operational testing in support of the recapitalization of combatant craft as well as to continue the development of user needs, science and technology and technology development work to refine material solutions to fill critical capability gaps. Continue to support system development, demonstration, fleet introduction team and boat system familiarization support and training for the MK VI Patrol Boat program.</p> <p>FY 2017 OCO Plans: N/A</p>					
Accomplishments/Planned Programs Subtotals	0.760	0.558	3.123	0.000	3.123

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017 Base</u>	<u>FY 2017 OCO</u>	<u>FY 2017 Total</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPN/1210: <i>Standard Boats (NECC)</i>	1.128	0.059	8.249	-	8.249	11.094	11.192	11.296	11.397	Continuing	Continuing

Remarks

D. Acquisition Strategy

Acquisition of RDT&E funded mockup and prototype craft for testing to be accomplished using "tailored" GSA procurements in accordance with a PMS325G approved/OPNAV N95 endorsed Riverine Combatant Craft Replacement Acquisition Strategy.

E. Performance Metrics

Successfully demonstrate system and prototype functionality to support approved Initial Capabilities Document (ICD).

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Exhibit R-4, RDT&E Schedule Profile: PB 2017 Navy **Date:** February 2016

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604230N / Warfare Support System	Project (Number/Name) 9C86 / Combatant Craft Replacement
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Proj 9C86	FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021			
	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 Security Craft Design Studies																											
	Combatant & Fleet Expeditionary Security Craft Awards																											
	Combatant & Fleet Expeditionary Security Craft Deliveries																											
	Craft Test and Evaluation																											
	Selection of Craft for Production																											
	Selection of Lethal effectors																											
									Integration of Lethal effectors																			

2017PB - 0604230N - 9C86

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Exhibit R-4A, RDT&E Schedule Details: PB 2017 Navy **Date:** February 2016

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

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 9C86</i>				
Combatant & Fleet Expeditionary Security Craft Design Studies	1	2015	2	2021
Combatant & Fleet Expeditionary Security Craft Awards	1	2017	4	2021
Combatant & Fleet Expeditionary Security Craft Deliveries	1	2019	4	2021
Craft Test and Evaluation	1	2019	4	2021
Selection of Craft for Production	1	2017	4	2021
Selection of Lethal effectors	1	2017	1	2018
Integration of Lethal effectors	1	2018	1	2019