Exhibit R-2, **RDT&E Budget Item Justification:** PB 2015 Navy										**Date:** March 2014	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 7: *Operational Systems Development*					**R-1 Program Element (Number/Name)** PE 0303138N *I Consolidated Afloat Network Ent Services(CANES)*						
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO** #	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
Total Program Element	99.779	15.510	24.476	22.780	-	22.780	25.968	25.580	23.226	23.719	Continuing	Continuing
0725: *Communication Automation*	0.000	1.213	1.002	3.009	-	3.009	3.475	2.993	1.010	1.030	Continuing	Continuing
9C87: *CANES Integration*	99.779	14.297	23.474	19.771	-	19.771	22.493	22.587	22.216	22.689	343.445	590.751

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

Consolidated Afloat Networks & Enterprise Services (CANES) is the Navy's only Program of Record (POR) to replace existing afloat networks and provide the necessary infrastructure for applications, systems, and services required for the Navy to dominate the Cyber Warfare domain. CANES is the technical and infrastructure consolidation of existing, separately managed afloat networks including Integrated Shipboard Network Systems (ISNS), Combined Enterprise Regional Information Exchange System - Maritime (CENTRIXS-M), Sensitive Compartmented Information (SCI) Networks, and Submarine Local Area Network (SubLAN). These legacy afloat network designs are currently End of Life and CANES will replace these unaffordable and obsolete networks.

The fundamental goal of CANES is to bring Infrastructure and Platform as a Service, within which current and future iterations of Navy Tactical Network computing and storage capabilities will reside. CANES will provide complete infrastructure, inclusive of hardware, software, processing, storage, and end user devices for Unclassified, Coalition, Secret and SCI for all basic network services to a wide variety of Navy surface combatants, submarines, Maritime Operations Centers, and aircraft. In addition, hosted applications and systems inclusive of Command and Control, Intelligence, Surveillance and Reconnaissance, Information Operations, Logistics and Business domains require the CANES infrastructure to operate in the tactical environment. Integrating these applications and systems is accomplished through Application Integration (AI), the engineering process used to evaluate and validate compatibility between CANES and the Navy-validated applications, systems and services that will utilize the CANES infrastructure and services. Specific programs, such as Distributed Common Ground System - Navy (DCGS-N), Global Command and Control System - Maritime (GCCS-M), Naval Tactical Command Support System (NTCSS), and Undersea Warfare Decision Support System (USW-DSS), are dependent on the CANES Common Computing Environment (CCE) to field, host, and sustain their capability because they no longer provide their own hardware. CANES requires that Automated Digital Network System (ADNS) field prior to or concurrently with CANES due to the architectural reliance between the two programs.

CANES will develop updates on a rolling four year hardware baseline and a two year software baseline. CANES is based on the overarching concept of reducing the number of afloat network baselines and providing enhanced efficiency through a single engineering focus on integrated technical solutions. This will allow for streamlined acquisition, contracting test events, and significant lifecycle efficiencies through consolidation of multiple current configuration management baselines, logistics, and training efforts into a unified support structure. Platform Sets 1, 2, 3, and 4 define phases of CANES system development efforts. Each platform set consists of different ship class design baselines.

In FY 2015, CANES RDT&E investment will support the developmental efforts for Technical Insertion (TI) software baseline. Perform systems engineering efforts to complete functional baselines and updates to technical data packages. Continue testing events at Enterprise Engineering and Certification (E2C) laboratory for TI

Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 7: *Operational Systems Development*		**R-1 Program Element (Number/Name)** PE 0303138N *I Consolidated Afloat Network Ent Services(CANES)*

software baseline. Perform Developmental Testing (DT) and Follow-On Test and Evaluation (FOT&E) for force level platforms. Achieve Full Deployment Decision (FDD).

The Communications Automation Program - This project is a continuing program that provides for automation and communications upgrades for Fleet tactical users. It includes Automated Digital Network System (ADNS) and High Frequency Internet Protocol/Sub Network Relay.

ADNS is the method by which tactical Navy units transfer Internet Protocol (IP) data to Navy and Department of Defense communities on the Global Information Grid (GIG). ADNS serves as a gateway to enable joint and coalition interoperability for these tactical assets and ensures GIG connectivity. ADNS allows unclassified, secret, top secret traffic, and various joint, allied, and coalition services to reconnect to the Defense Information Systems Network (DISN) ashore via radio paths and pier connectivity.

In FY 2015, ADNS RDT&E investment will support continued interface design development and integration with network applications, development of Line-of-sight (LOS) Link, DISN integration, development of Cipher-Text (CT) piers. Also in FY2015, study efforts will begin with the intention of integrating ADNS into the Joint Aerial Layer Network - Maritime (JALN-M) system. JALN-M is the Navy implementation that provides network connectivity in areas that have limited or denied Satellite Communications (SATCOM). ADNS study efforts will include addressing network management, intra and inter domain routing, Quality of Service (QoS), and Concept of Operations discussions.

B. Program Change Summary ($ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	16.749	24.476	22.710	-	22.710
Current President's Budget	15.510	24.476	22.780	-	22.780
Total Adjustments	-1.239	-	0.070	-	0.070
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.279	-			
• Program Adjustments	-	-	-0.064	-	-0.064
• Rate/Misc Adjustments	-	-	0.134	-	0.134
• Congressional General Reductions Adjustments	-0.960	-	-	-	-

Change Summary Explanation

Technical: N/A

Exhibit R-2, **RDT&E Budget Item Justification:** PB 2015 Navy		**Date:** March 2014
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 7: *Operational Systems Development*		**R-1 Program Element (Number/Name)** PE 0303138N *I Consolidated Afloat Network Ent Services(CANES)*

Funding:
N/A

Schedule:
Impacts resulting from operational ship availability timelines for the CANES Initial Operational Test and Evaluation (IOT&E) and Follow-On Test and Evaluation (FOT&E) test platforms caused the Unit Level DT1, Unit Level DT2, IOT&E and Force Level DT and Force Level FOT&E test events to be re-phased. The delays to the ship availability timeline also caused IOC to be re-phased based on IOC definition in the program's Capability Development Document (CDD) for IOC to be declared once first installation is completed. CANES development of Platform Sets 1, 2, 3 & 4 has been re-phased to include development in FY 2014 to align with ship installation schedules of platforms added to the CANES Target Inventory Objective. CANES Limited Deployment re-phased to reflect Limited Deployment authorization provided at Milestone C.

The ADNS INC III Submarine Verification of the Correction of Deficiencies (VCD) Report has been added in 4QFY13 to finalize the Operational Test report required by COMOPTEVFOR (COTF).

The ADNS program will continue system development efforts for interface design development and integration with network applications and Defense Information Systems Network (DISN), future SATCOM, JALN-M and Radio Frequency (RF) paths.

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Navy										**Date:** March 2014	

Appropriation/Budget Activity 1319 *I* 7				**R-1 Program Element (Number/Name)** PE 0303138N *I Consolidated Afloat Network Ent Services(CANES)*			**Project (Number/Name)** 0725 *I Communication Automation*				

COST ($ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0725: *Communication Automation*	-	1.213	1.002	3.009	-	3.009	3.475	2.993	1.010	1.030	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

\# The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

This project unit is a continuing program that provides for automation and communications upgrades for Fleet tactical users.

Automated Digital Network System (ADNS) provides routing, switching, baseband, configuration and monitoring capabilities for interconnecting naval, coalition and joint enclaves worldwide. ADNS utilizes off the shelf equipment and network protocols as specified by the Joint Technical Architecture. ADNS Increment (INC) II provides capabilities of load balancing, radio frequency restoral, initial quality of service to include application prioritization, initial traffic management, and enhancements designed to maximize use of available bandwidth for surface, shore, and airborne platforms. ADNS INC III converges all Navy tactical voice, video, and data requirements into a converged IP data stream. ADNS INC III interoperates with higher bandwidth satellites, supporting up to 25 mega bytes per second (Mbps) of throughput on unit level ships and up to 50 Mbps on force level ships. INC III architecture also incorporates an IPv4/IPv6 dual stack and a Cipher Text security architecture to align to joint and coalition networks, in addition to greater security utilizing the High Assurance Internet Protocol (IP) Encryptor (HAIPE) devices. ADNS INC III serves as the Navy tactical interface for IP Networking with Joint Tactical Radio System, and Advanced Extremely High Frequency to include Consolidated Afloat Networks and Enterprise Services (CANES). Starting in FY2015, ADNS will serve as the Navy tactical interface for IP Networking for the JALN-M system. ADNS will investigate emerging technologies to integrate with additional Department of Defense C4I Programs to improve interstrike group networking and extend the network to the tactical edge.

FY15 funds will be used for continued interface design development and integration with network application, development of Line-of-sight (LOS) Link, Defense Information Systems Network (DISN) integration, and development of Cipher-Text (CT) Piers. Also in FY2015, study efforts will begin with the intention of integrating ADNS into the JALN-M system. JALN-M is the Navy implementation that provides network connectivity in areas that have limited or denied Satellite Communications (SATCOM). ADNS study efforts will include addressing network management, intra and inter domain routing, Quality of Service (QoS), and Concept of Operations discussions.

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

	FY 2013	FY 2014	FY 2015
Title: Automated Digital Network System	1.213	1.002	3.009
Articles:	-	-	-

FY 2013 Accomplishments:
Continued development of updated system and subsystem interface designs for integration with new SATCOM and RF paths as they emerged. Tested and integrated the evolving network applications as they were incorporated into the C4I architecture;

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Navy		**Date:** March 2014
Appropriation/Budget Activity 1319 *I* 7	**R-1 Program Element (Number/Name)** PE 0303138N *I Consolidated Afloat Network Ent Services(CANES)*	**Project (Number/Name)** 0725 *I Communication Automation*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	**FY 2013**	**FY 2014**	**FY 2015**
actions included examining and testing interfaces with Enterprise Network Management System, transition to IPv6, and final phase out of serial links. Continued Integration of Super High Frequency (SHF) Split IP. Continued Interface testing for emerging Line-of-Sight (LOS) links. Completed Video and Voice Over Secure Internet Protocol (VVoSIP) integration into the ADNS boundary. Completed Operational Testing and Verification of the Correction of Deficiencies (VCD) on ADNS INC III Submarines. *FY 2014 Plans:* Continue testing interfaces with Enterprise Network Management System, transition to IPv6, and final phase out of serial links. Integration of Super High Frequency (SHF) Split IP. Interface testing for emerging LOS links. *FY 2015 Plans:* Continue interface design development and integration for network applications, develop LOS link, Defense Information Systems Network (DISN) integration and develop Cipher-Text (CT) Piers. Investigate and recommend platform network devices, network design support to include WAN integration and interface designs and integration on the shore for JALN-M.			
Accomplishments/Planned Programs Subtotals	1.213	1.002	3.009

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• OPN/2915: *CANES (ADNS Only)*	51.336	52.098	56.626	-	56.626	46.753	34.698	51.619	53.784	-	346.914

Remarks

D. Acquisition Strategy

Automated Digital Network System (ADNS): Evolutionary acquisition approach with overlapping development and implementation phases for defined INC I, II, and III baselines. INC I , II , and III will use competitively awarded contracts to implement changes consistent with acquisition initiatives. ADNS leverages Commercial-Off-The-Shelf (COTS) and Government Off-the-Shelf (GOTS) products while capitalizing on acquisition reform initiatives to achieve material savings in the logistics, installation, integration and training areas. Where feasible, differing types of advantageous contract vehicles will be used to provide flexibility, decrease contract administrative costs, and encourage acquisition streamlining through the use of COTS/GOTS products.

E. Performance Metrics

ADNS - Included in the ADNS program goals are the improvements to bandwidth throughput, connectivity to multiple Radio Frequency (RF) paths, greater security, and system capability delivered within a smaller form factor. The ADNS program will, at a minimum, provide bandwidth throughput enhancements resulting in an increase from 2 megabytes per
second (Mbps) to 25 Mbps. ADNS will also provide the ability to transport data across multiple paths simultaneously vice the current limitations of single or secondary paths. ADNS will provide greater security posture by encrypting each enclave, and securing the core via Cipher Text.

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Exhibit R-4, **RDT&E Schedule Profile:** PB 2015 Navy		**Date:** March 2014
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0303138N / Consolidated Afloat Network Ent Services(CANES)	**Project (Number/Name)** 0725 / Communication Automation

Schedule chart:

Fiscal Year	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
	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
- Fielding Decision INC III Subs ▲ (FY2013 2Q)

System Development
- Interface Design Development & Integration with Network Applications and DISN
- Interface Design Development & Integration with Future SATCOM, JALN-M and Radio Frequency (RF) paths

Test & Evaluation Milestones
- Operational Test: OT INC III Subs ▲ (FY2013 1Q); VCD INC III Subs ▲ (FY2013 4Q)

Production
- FOC INC II ▲ (FY2013 1Q)
- Fielding & Sustainment INC II
- Fielding & Sustainment Inc III Surface
- Fielding & Sustainment INC III Subs

Deliveries

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014	
Appropriation/Budget Activity 1319 / 7				**R-1 Program Element (Number/Name)** PE 0303138N / *Consolidated Afloat Network Ent Services(CANES)*				**Project (Number/Name)** 9C87 / *CANES Integration*			
COST ($ in Millions)	**Prior Years**	**FY 2013**	**FY 2014**	**FY 2015 Base**	**FY 2015 OCO #**	**FY 2015 Total**	**FY 2016**	**FY 2017**	**FY 2018**	**FY 2019**	**Cost To Complete**	**Total Cost**
9C87: *CANES Integration*	99.779	14.297	23.474	19.771	-	19.771	22.493	22.587	22.216	22.689	343.445	590.751
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

The FY 2015 OCO Request will be submitted at a later date.

A. Mission Description and Budget Item Justification

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The fundamental goal of CANES is to bring Infrastructure and Platform as a Service, within which current and future iterations of Navy Tactical Network computing and storage capabilities will reside. CANES will provide complete infrastructure, inclusive of hardware, software, processing, storage, and end user devices for Unclassified, Coalition, Secret and SCI for all basic network services to a wide variety of Navy surface combatants, submarines, Maritime Operations Centers, and aircraft. In addition, hosted applications and systems inclusive of Command and Control, Intelligence, Surveillance and Reconnaissance, Information Operations, Logistics and Business domains require the CANES infrastructure to operate in the tactical environment. Integrating these applications and systems is accomplished through Application Integration (AI), the engineering process used to evaluate and validate compatibility between CANES and the Navy-validated applications, systems and services that will utilize the CANES infrastructure and services. Specific programs, such as Distributed Common Ground System - Navy (DCGS-N), Global Command and Control System - Maritime (GCCS-M), Naval Tactical Command Support System (NTCSS), and Undersea Warfare Decision Support System (USW-DSS), are dependent on the CANES Common Computing Environment (CCE) to field, host, and sustain their capability because they no longer provide their own hardware. CANES requires that Automated Digital Network System (ADNS) field prior to or concurrently with CANES due to the architectural reliance between the two programs.

CANES will develop updates on a rolling four year hardware baseline and a two year software baseline. CANES is based on the overarching concept of reducing the number of afloat network baselines and providing enhanced efficiency through a single engineering focus on integrated technical solutions. This will allow for streamlined acquisition, contracting test events, and significant lifecycle efficiencies through consolidation of multiple current configuration management baselines, logistics, and training efforts into a unified support structure. Platform Sets 1, 2, 3, and 4 define phases of CANES system development efforts. Each platform set consists of different ship class design baselines.

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

	FY 2013	FY 2014	FY 2015
Title: CANES Integration	14.297	23.474	19.771
Articles:	-	-	-
FY 2013 Accomplishments:			

Exhibit R-2A, **RDT&E Project Justification:** PB 2015 Navy		**Date:** March 2014
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0303138N / *Consolidated Afloat Network Ent Services(CANES)*	**Project (Number/Name)** 9C87 / *CANES Integration*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	**FY 2013**	**FY 2014**	**FY 2015**
Milestone C achieved 1QFY13. Completed Platform Sets 1 and 2 baseline development. Started testing events at E2C laboratory in support of Platform Set 1 baseline and purchased necessary lab assets and test articles in support of testing events. Performed systems engineering efforts to complete functional baselines and updates to technical data packages. Completed Operational Assessment (OA) for unit level. *FY 2014 Plans:* Start and complete DT on unit level platforms. Initiate development for TI software baselines. Perform system engineering efforts to complete functional baselines and updates to technical data packages. Complete Platform Sets 3 and 4 baseline development. Continue testing events at E2C lab on Platform Sets 2, 3 & 4 and purchase necessary lab assets and test articles in support of testing events. Complete IOT&E on unit level platforms. Achieve IOC upon completion of first CANES installation. *FY 2015 Plans:* Continue development for TI software baseline. Perform systems engineering efforts to complete functional baselines and updates to technical data packages. Continue testing events at E2C laboratory for TI software baseline. Perform DT and FOT&E in support of force level testing and perform DT Assist for TI software development. Achieve Full Deployment Decision (FDD).			
Accomplishments/Planned Programs Subtotals	14.297	23.474	19.771

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
• OPN/2915: *CANES*	246.415	273.242	300.963	-	300.963	329.747	291.600	357.483	352.983	4,195.368	6,436.248
• OPN/2925: *CANES Intell*	62.586	55.262	65.015	-	65.015	28.920	51.799	48.670	48.316	682.967	1,118.971

Remarks

D. Acquisition Strategy

CANES is an ACAT IAM MAIS program. The program office is employing a multiple-phase, multiple-award down-select contract strategy to reduce program risks and maintain competition in both design development and production during contract performance. Two competitive contracts were awarded to design, develop, and deliver all hardware and the associated operating system, virtualization and other commercial software needed to deliver a functional network. The Limited Deployment (LD) contract was awarded to Northrop Grumman (NG) on 2QFY12. Milestone C achieved in 1QFY13. In 3QFY14, a separate full and open indefinite delivery indefinite quantity (IDIQ) multiple award contract (MAC) production contract will be awarded to support future production.

E. Performance Metrics

Early RDT&E investment and sustainment of dual design contractors through the development phase reduced Total Ownership Cost (TOC) from Milestone B to Milestone C. Cost avoidance throughout the life of the program is based on 1) reducing the number of networks through the use of mature, certified, cross domain

Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014	
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0303138N / *Consolidated Afloat Network Ent Services(CANES)*	Project (Number/Name) 9C87 / *CANES Integration*	

technologies; 2) reducing the infrastructure footprint and associated costs for hardware afloat; and 3) providing increased capability to meet current and projected war fighter requirements.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Navy													Date: March 2014	

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0303138N / Consolidated Afloat Network Ent Services(CANES)	Project (Number/Name) 9C87 / CANES Integration

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development	C/CPFF	Lockheed Martin : San Diego, CA	22.329	-		-		-		-		-	-	22.329	22.329
Primary Hardware Development	C/CPFF	Northrop Grumman : Herndon, VA	25.867	1.000	Nov 2012	-		-		-		-	-	26.867	26.957
Primary Hardware Development	WR	SPAWAR Systems Center : San Diego, CA	12.384	4.177	Nov 2012	11.047	Nov 2013	10.031	Nov 2014	-		10.031	235.461	273.100	209.438
Primary Software Development	WR	SPAWAR Systems Center : San Diego, CA and Charleston, SC	8.044	2.424	Dec 2012	6.908	Nov 2013	5.879	Nov 2014	-		5.879	35.264	58.519	48.574
Systems Engineering	WR	SPAWAR Systems Center : San Diego, CA and Charleston, SC	16.175	1.916	Nov 2012	3.897	Nov 2013	2.436	Nov 2014	-		2.436	39.661	64.085	50.798
Systems Engineering	MIPR	US ARMY CECOM (MITRE) : San Diego, CA	1.480	0.567	Nov 2012	-		0.300	Nov 2014	-		0.300	15.484	17.831	19.934
Systems Engineering	C/CPFF	BAH : San Diego, CA	0.690	-		-		-		-		-	-	0.690	0.690
Primary Hardware Development	WR	NUWC : Newport, RI	0.000	2.923	May 2013	-		-		-		-	-	2.923	5.120
Primary Software Development	C/CPFF	NSMA : Washington DC	0.000	0.234	Feb 2014	-		-		-		-	-	0.234	-
		Subtotal	86.969	13.241		21.852		18.646		-		18.646	325.870	466.578	-

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	FY 2013 Award Date	FY 2014 Cost	FY 2014 Award Date	FY 2015 Base Cost	FY 2015 Base Award Date	FY 2015 OCO Cost	FY 2015 OCO Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Studies & Design	MIPR	Washington HQ Services : Washington DC	0.650	-		-		-		-		-	-	0.650	0.650

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2015 Navy													**Date:** March 2014	
Appropriation/Budget Activity 1319 / 7						**R-1 Program Element (Number/Name)** PE 0303138N / Consolidated Afloat Network Ent Services(CANES)						**Project (Number/Name)** 9C87 / CANES Integration		

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	Award Date	FY 2014 Cost	Award Date	FY 2015 Base Cost	Award Date	FY 2015 OCO Cost	Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			0.650	-		-		-		-		-	-	0.650	0.650

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	Award Date	FY 2014 Cost	Award Date	FY 2015 Base Cost	Award Date	FY 2015 OCO Cost	Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Test & Evaluation	MIPR	JITC : Fairfax, VA	0.743	0.375	Nov 2012	-		0.196	Nov 2014	-		0.196	3.566	4.880	4.673
Operational Test & Evaluation	WR	COMOPTEVFOR : Norfolk, VA and Washington, DC	0.717	0.298	Nov 2012	0.510	Mar 2014	0.326	Nov 2014	-		0.326	4.584	6.435	5.891
Subtotal			1.460	0.673		0.510		0.522		-		0.522	8.150	11.315	10.564

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2013 Cost	Award Date	FY 2014 Cost	Award Date	FY 2015 Base Cost	Award Date	FY 2015 OCO Cost	Award Date	FY 2015 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	WR	SPAWAR Systems Center : San Diego, CA and Charleston, SC	2.742	-		-		-		-		-	-	2.742	2.742
Program Management & Acquisition Support	C/CPFF	Systems Research & Application : San Diego, CA	4.073	0.383	Dec 2012	0.572	Dec 2013	0.603	Dec 2014	-		0.603	9.425	15.056	14.326
Financial Management Support	C/CPFF	INDUS Technology : San Diego, CA	1.167	-		-		-		-		-	-	1.167	1.167
Cost Estimation and Analyses	C/CPFF	Booz Allen Hamilton : San Diego, CA	1.420	-		-		-		-		-	-	1.420	1.420
Logistics Support	C/CPFF	TCI : San Diego, CA	1.298	-		-		-		-		-	-	1.298	1.298
Program Management	C/CPFF	CSA : San Diego, CA	0.000	-		0.334	Feb 2014	-		-		-	-	0.334	-

Exhibit R-3, **RDT&E Project Cost Analysis:** PB 2015 Navy										**Date:** March 2014		
Appropriation/Budget Activity 1319 / 7					**R-1 Program Element (Number/Name)** PE 0303138N / Consolidated Afloat Network Ent Services(CANES)					**Project (Number/Name)** 9C87 / CANES Integration		

Management Services ($ in Millions)					FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total			
Cost Category Item	**Contract Method & Type**	**Performing Activity & Location**	**Prior Years**		**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Award Date**	**Cost**	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Engineering	C/CPFF	SAIC : San Diego, CA	0.000		-		0.206	Jan 2014	-		-		-	-	0.206	-
		Subtotal	10.700		0.383		1.112		0.603		-		0.603	9.425	22.223	-

	Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	**Cost To Complete**	**Total Cost**	**Target Value of Contract**
Project Cost Totals	99.779	14.297		23.474		19.771		-		19.771	343.445	500.766	-

Remarks

Exhibit R-4, **RDT&E Schedule Profile:** PB 2015 Navy | **Date:** March 2014

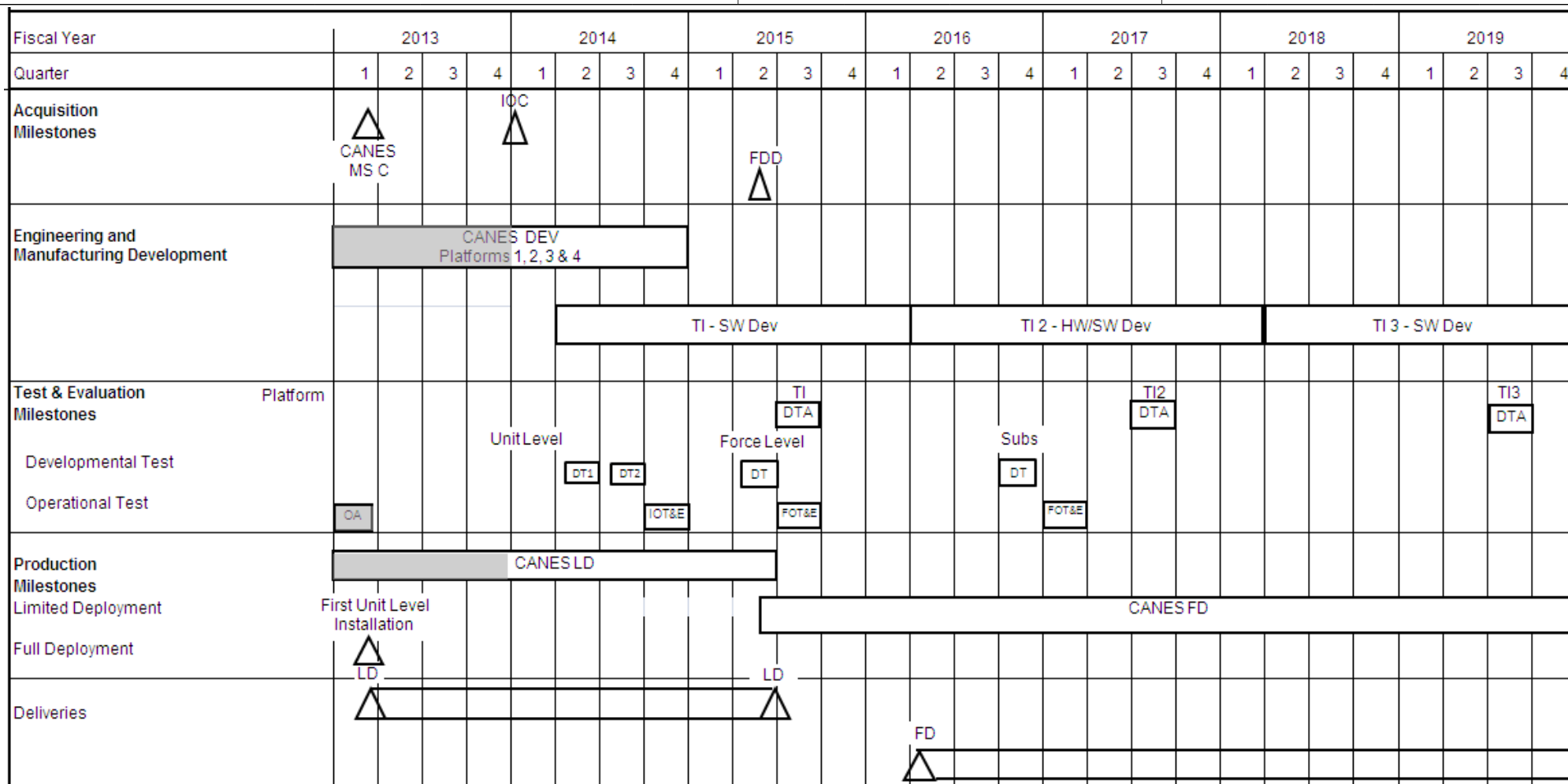| **Appropriation/Budget Activity** 1319 / 7	**R-1 Program Element (Number/Name)** PE 0303138N / *Consolidated Afloat Network* *Ent Services(CANES)*	**Project (Number/Name)** 9C87 / *CANES Integration*

Exhibit R-4A, RDT&E Schedule Details: PB 2015 Navy		Date: March 2014
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0303138N / Consolidated Afloat Network Ent Services(CANES)	**Project (Number/Name)** 9C87 / CANES Integration

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Fiscal Year				
Acquisition Milestone: Acquisition Milestone - CANES MS C	1	2013	1	2013
Acquisition Milestone: Acquisition Milestone - Initial Operational Capability (IOC)	1	2014	1	2014
Acquisition Milestone: Acquisition Milestone - Full Deployment Decision Review (FDD)	2	2015	2	2015
Engineering and Manufacturing Development: Platform: Engineering and Manufacturing Development - Platform Set 1, 2, 3 & 4	1	2013	4	2014
Engineering and Manufacturing Development: Platform: Engineering and Manufacturing Development - Technical Insertion (TI) Software Development	2	2014	1	2016
Engineering and Manufacturing Development: Platform: Engineering and Manufacturing Development - TI 2 Hardware (HW)/SW Development	2	2016	1	2018
Engineering and Manufacturing Development: Platform: Engineering and Manufacturing Development - TI 3 SW Development	2	2018	4	2019
Test & Evaluation Milestone: Development Test: Operational Assesment (1) - Unit Level	1	2013	1	2013
Test & Evaluation Milestone: Development Test: Developmental Test - Force Level	2	2015	2	2015
Test & Evaluation Milestone: Development Test: Developmental Test - Sub	4	2016	4	2016
Test & Evaluation Milestone: Development Test: Development Test Assist - TI	3	2015	3	2015
Test & Evaluation Milestone: Development Test: Development Test Assist- TI2	3	2017	3	2017
Test & Evaluation Milestone: Development Test: Development Test Assist- TI3	3	2019	3	2019
Test & Evaluation Milestone: Development Test: Developmental Test - (1) - Unit Level	2	2014	2	2014
Test & Evaluation Milestone: Development Test: Developmental Test - (2) - Unit Level	3	2014	3	2014
Test & Evaluation Milestone: Operational Test: Operational Test - Initial Operational Test & Evaluation (IOT&E)	4	2014	4	2014
Test & Evaluation Milestone: Operational Test: Operational Test Force Level - FOT&E	3	2015	3	2015

Exhibit R-4A, **RDT&E Schedule Details:** PB 2015 Navy		**Date:** March 2014
Appropriation/Budget Activity 1319 / 7	**R-1 Program Element (Number/Name)** PE 0303138N / *Consolidated Afloat Network Ent Services(CANES)*	**Project (Number/Name)** 9C87 / *CANES Integration*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Test & Evaluation Milestone: Operational Test: Operational Test - FOT&E Sub	1	2017	1	2017
Production Milestone: Limited Deployment: Production Milestone - Limited Deployment (LD)	1	2013	2	2015
Production Milestone: Limited Deployment: Production Milestone - First Unit Level Installation	1	2013	1	2013
Production Milestone: Full Deployment: Production Milestone - Full Deployment (FD)	2	2015	4	2019
Deliveries: Deliveries - Full Deployment (FD)	2	2016	4	2019
Deliveries: Deliveries - Limited Deployment (LD)	1	2013	2	2015