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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2012 Navy **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b>				<b>R-1 ITEM NOMENCLATURE</b>							
1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>				PE 0303138N: <i>Consolidated Afloat Network Ent Services(CANES)</i>							
<b>COST (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
Total Program Element	46.823	63.563	12.906	-	12.906	15.663	15.125	11.464	13.661	Continuing	Continuing
9C87: <i>CANES Integration</i>	46.823	63.563	12.906	-	12.906	15.663	15.125	11.464	13.661	Continuing	Continuing

**Note**  
FY11 Military Intelligence Program related funding transitions to PE 0303238N beginning in FY11.

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

The CANES program recapitalizes the Navy's afloat network infrastructure (see note below) by consolidation of diverse physical networks and implementation of Afloat Core Services (ACS) and Cross Domain Solutions (CDS). CANES will provide all security domains from Unclassified through Top Secret/Sensitive Compartmented Information (SCI) Common Computing Environment (CCE) for a wide variety of Navy surface combatants, submarines, Maritime Operations Centers, and Aircraft. CANES will enable more efficient data visibility and flow between operational nodes on the Global Information Grid using an open architecture. Additionally, virtualization on the CCE enhances the department's ability to reduce the multitude of standalone command and control systems and applications eliminating the need to field additional or unique hardware (servers and workstations). Through CCE, CDS and virtualization, CANES will improve the Navy's Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) security and agility while reducing total ownership costs.

Note existing afloat networks include: Integrated Shipboard Network Systems (ISNS), Combined Enterprise Regional Information Exchange System - Maritime (CENTRIXS-M), SCI Networks, and Submarine Local Area Network (SubLAN). In addition, CANES will provide functionality currently provided in the Video Information Exchange System (VIXS) and portions of afloat Computer Network Defense (CND).

CANES will field on a rolling four year hardware baseline and a two year software baseline. The CANES vision is based on the overarching concept of reducing the number of afloat networks and providing enhanced efficiency through a single engineering focus on integrated technical solutions. This will allow for streamlined acquisition, contracting, and test events, and significant lifecycle efficiencies through consolidation of multiple current configuration management baselines, logistics and training efforts into a unified support structure. The primary goals of the CANES program are to: 1) reduce the number of networks through the use of mature, certified, cross domain technologies; 2) reduce the infrastructure footprint and associated costs for hardware afloat; and 3) provide increased capability to meet current and projected warfighter requirements.

CANES will enable application developers to begin decoupling applications and services software away from independent, unique hardware stacks and host them on a common interoperable environment.

In FY12, the CANES RDT&E investment ramps down with the close out of the Engineering and Manufacturing Development (EMD) phase, transitioning to the Limited Deployment (LD) phase to continue development on additional platform set baselines and ramp up of testing events. Engineering Development Model (EDM) units are installed on Unit level platforms to support Initial Operational Test & Evaluation (IOT&E). Legacy afloat networks and hosted applications fully transition for integration

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testing as they migrate to CANES baseline. Begin to prepare Enterprise Engineering and Certification (E2C) lab for Submarine Hosted System Integration. Develop Request For Proposal (RFP) for Full Deployment contract and associated source selection activities.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012 Base</b>	<b>FY 2012 OCO</b>	<b>FY 2012 Total</b>
Previous President's Budget	45.324	63.563	10.270	-	10.270
Current President's Budget	46.823	63.563	12.906	-	12.906
Total Adjustments	1.499	-	2.636	-	2.636
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	1.500	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	-	-	2.714	-	2.714
• Rate/Misc Adjustments	-	-	-0.078	-	-0.078
• Congressional General Reductions Adjustments	-0.001	-	-	-	-

**Change Summary Explanation**

Technical: On 29 March 2010, CANES was designated an ACAT IAM pre-Major Automated Information System (MAIS) program. Per FY10 National Defense Authorization Act (NDAA), Low Rate Initial Production (LRIP) is replaced with Limited Deployment (LD) and Full Rate Production (FRP) is replaced with Full Deployment (FD) for MAIS programs.

Schedule: MS B shifted from Q3FY10 to Q2FY11 due to closeout coordination of Preliminary Design Review (PDR) Requests for Action (RFA) for both Engineering and Manufacturing Development (EMD) developers combined with acquisition documentation staffing timelines and alignment with new OSD mandated requirements for milestone events. Execution of the EMD contract was not impacted or affected by the scheduling of MS B. MS B O-IPT was held 1QFY11, and Acquisition Decision Memorandum (ADM) was signed 2QFY11.

MS C planned completion date has shifted from late Q4FY11 to Q2FY12 due to the EMD contract award which re-baselined the program schedule including the lab based Operational Assessment (OA) which is the main entrance criteria for MS C. Initial Operational Capability (IOC): IOC shifted to Q4FY12 aligning with the Joint Staff definition of IOC completion. IOC is achieved when first CANES unit is installed, and maintenance and training support programs are in place. Full Deployment (FD) Contract Award: Shift related to Milestone Decision Authority (MDA) decision to wait until MS C to release FD contract Request for Proposal (RFP).

Funding: A \$2,636K increase in FY12 occurred since PB11. As a result, the program is fully funded to develop required platform sets.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2012 Navy **DATE:** February 2011

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COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
9C87: <i>CANES Integration</i>	46.823	63.563	12.906	-	12.906	15.663	15.125	11.464	13.661	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

**Note**  
FY11 Military Intelligence Program related funding transitions to PE 0303238N beginning in FY11.

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

The CANES program recapitalizes the Navy's afloat network infrastructure (see note below) by consolidation of diverse physical networks and implementation of Afloat Core Services (ACS) and Cross Domain Solutions (CDS). CANES will provide all security domains from Unclassified through Top Secret/Sensitive Compartmented Information (SCI) Common Computing Environment (CCE) for a wide variety of Navy surface combatants, submarines, Maritime Operations Centers, and Aircraft. CANES will enable more efficient data visibility and flow between operational nodes on the Global Information Grid using an open architecture. Additionally, virtualization on the CCE enhances the department's ability to reduce the multitude of standalone command and control systems and applications eliminating the need to field additional or unique hardware (servers and workstations). Through CCE, CDS and virtualization, CANES will improve the Navy's Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) security and agility while reducing total ownership costs.

Note existing afloat networks include: Integrated Shipboard Network Systems (ISNS), Combined Enterprise Regional Information Exchange System - Maritime (CENTRIXS-M), SCI Networks, and Submarine Local Area Network (SubLAN). In addition, CANES will provide functionality currently provided in the Video Information Exchange System (VIXS) and portions of afloat Computer Network Defense (CND)

CANES will enable application developers to begin decoupling applications and services software away from independent, unique hardware stacks and host them on a common interoperable environment. This approach will incrementally deploy and will provide a basis for overall Navy Return on Investment (ROI) over the existing strategies.

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

	FY 2010	FY 2011	FY 2012
<b>Title:</b> CANES Integration	46.823	63.563	12.906
<b>Articles:</b>	2	2	0
<b>FY 2010 Accomplishments:</b>			
Program/budget transitioned from ISNS Inc 2/CANES to CANES which consolidates afloat networks and enterprise services aboard ships and shore sites. These capabilities include increased availability to mission critical level ships, multiple security enclaves, application hosting, Afloat Core Services (ACS), and collaboration services. Began required statutory and regulatory programmatic activities to support Milestone B (MS B) and Milestone C (MS C) including acquisition documentation and Engineering Manufacturing Development (EMD) efforts. Conducted Developmental Testing (DT) on CANES. Conducted			

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
<p>Preliminary Design Review (PDR). CANES ACS version 1.1 was delivered to the two system developers for integration with the proposed development baselines. Developed Cost Analysis Requirements Description (CARD) and Life Cycle Cost Estimate (LCCE) for CANES. Awarded system development contract on two system developer baselines. Developed design installation studies and participated in source selection activities. Assessed alternatives for a command and control (C2) path.</p> <p><b>FY 2011 Plans:</b> Continue CANES statutory and regulatory acquisition documentation to achieve Milestone C (MS C). Complete revised Cost Analysis Requirements Document (CARD) and Life Cycle Cost Estimate (LCCE). Procure two (2) Engineering and Development Model (EDM) units for Initial Operational Test and Evaluation (IOT&amp;E) integration, and regression testing. The EDM units function as pre-production units and require funding for necessary installation design and installation costs. Continue Developmental Testing (DT) and begin Operational Assessment (OA) for Operational Testing (OT) event. Close out EMD contract and complete down-select of the prime system developer to continue into Limited Deployment (LD) phase to develop additional platform set baselines. Develop Request for Proposal for Full Deployment contract and associated source selection activities. Achieve Milestone B (MS B).</p> <p>It is important to note, quantities represent the sites receiving the CANES enclave as also referenced in PE 0303238N.</p> <p><b>FY 2012 Plans:</b> Complete statutory and regulatory acquisition documentation to achieve CANES MS C. Revise CARD and LCCE in support of Navy's Service Cost Position (SCP) for MS C. Following Operational Testing (OT), preparation begins for IOT&amp;E to include installation of EDM units on Unit level platforms to complete operational assessments for readiness. Also, continue developmental Legacy afloat networks and hosted applications fully transition for integration testing as they migrate to CANES baseline. Begin to prepare Enterprise Engineering and Certification (E2C) lab for Submarine Hosted System Integration. Completion of Source Selection activities to award Full Deployment contract. Continue development of platform set baselines.</p>			
<b>Accomplishments/Planned Programs Subtotals</b>	46.823	63.563	12.906

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u> <u>Base</u>	<u>FY 2012</u> <u>OCO</u>	<u>FY 2012</u> <u>Total</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPN/2915: <i>CANES</i>	1.177	34.398	195.141	0.000	195.141	303.318	319.817	307.413	376.359	Continuing	Continuing
• OPN/2925: <i>CANES Intell</i>	0.000	10.432	75.084	0.000	75.084	85.447	63.863	71.297	60.260	Continuing	Continuing

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<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0303138N: <i>Consolidated Afloat Network Ent Services(CANES)</i>	<b>PROJECT</b> 9C87: <i>CANES Integration</i>
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**C. Other Program Funding Summary (\$ in Millions)**

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• RDTE/0303238N: <i>CANES MIP</i>	0.000	8.375	6.602	0.000	6.602	0.000	0.000	0.000	0.000	0.000	14.977

**D. Acquisition Strategy**

CANES was identified as a ACAT IAM pre-MAIS. Formal program initiation at MS B (2QFY11). 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 have been awarded to design, develop, and deliver all hardware and the associated operating system, virtualization and other commercial software needed to deliver a functional network. As the program accomplishes system development, a down-select will be conducted to choose the best design for Limited Deployment (LD). At the completion of LD, a separate competitive contract will be awarded for Full Deployment (FD) efforts.

**E. Performance Metrics**

Early RDT&E investment and sustainment of dual design contractors through the development phase will save 10-30% of Total Ownership Cost (TOC) over the life cycle of the program. Cost avoidance throughout the life of the program is based on performance gains that are measured (not quantified) by 1) reducing the number of networks through the use of mature, certified, cross domain technologies; 2) reducing the infrastructure footprint and associated costs for hardware afloat; and 3) providing increased capability to meet current and projected warfighter requirements.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Navy** **DATE:** February 2011

<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0303138N: <i>Consolidated Afloat Network Ent Services(CANES)</i>	<b>PROJECT</b> 9C87: <i>CANES Integration</i>
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<b>Product Development (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</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>
Primary Hardware Development	C/CPFF	Lockheed Martin:San Diego, CA	13.000	2.000	Nov 2010	-		-		-	0.000	15.000	15.000
Primary Hardware Development	C/CPFF	Northrop Grumman:Reston, VA	13.000	4.373	Nov 2010	-		-		-	0.000	17.373	17.373
Primary Hardware Development	WR	SPAWAR Systems Center:San Diego, CA	5.424	5.171	Nov 2010	-		-		-	Continuing	Continuing	Continuing
Primary Hardware Development	C/FFP	UNKNOWN:UNKNOWN	-	11.157	Aug 2011	5.500	Nov 2011	-		5.500	0.000	16.657	14.533
Systems Engineering	WR	SPAWAR Systems Center:San Diego, CA and Charleston, SC	7.362	9.202	Dec 2010	2.130	Dec 2011	-		2.130	Continuing	Continuing	Continuing
Systems Engineering	MIPR	US ARMY CECOM (MITRE):San Diego, CA	0.440	0.695	Dec 2010	0.575	Dec 2011	-		0.575	Continuing	Continuing	Continuing
Systems Engineering	C/CPFF	Lockheed Martin:San Diego, CA	-	3.500	Mar 2011	-		-		-	0.000	3.500	5.000
Systems Engineering	C/CPFF	Northrop Grumman:Reston, VA	-	3.500	Mar 2011	-		-		-	0.000	3.500	5.000
<b>Subtotal</b>			39.226	39.598		8.205		-		8.205			

<b>Support (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</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>
Studies & Design	MIPR	Washington HQ Services:Washington DC	0.650	-		-		-		-	0.000	0.650	0.650
System Installation Design	WR	Puget Sound Naval ShipYard:Bremerton, Washington	-	2.618	May 2011	1.078	Dec 2011	-		1.078	0.000	3.696	3.696
System Installation	WR	SPAWAR Systems Center Atlantic	-	6.936	Jul 2011	0.885	Jan 2012	-		0.885	0.000	7.821	7.821

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<b>Support (\$ in Millions)</b>				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract		
		IMO:North Charelston, SC													
<b>Subtotal</b>			0.650	9.554			1.963			-		1.963	0.000	12.167	12.167

<b>Test and Evaluation (\$ in Millions)</b>				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Test & Evaluation	MIPR	JITC:Fairfax, VA	0.100	0.274	Nov 2010	0.312	Dec 2011	-		0.312	Continuing	Continuing	Continuing
Operational Test & Evaluation	WR	COMOPTEVFOR:Norfolk, VA and Washington, DC	0.261	0.346	Nov 2010	0.352	Dec 2011	-		0.352	Continuing	Continuing	Continuing
Development Test & Evaluation	WR	Spawar System Center:San Diego, CA	0.650	8.053	Dec 2010	0.608	Dec 2011	-		0.608	Continuing	Continuing	Continuing
Studies & Design	MIPR	USAF:Research Laboratory: UNKNOWN	1.500	-		-		-		-	0.000	1.500	
<b>Subtotal</b>			2.511	8.673			1.272			-		1.272	

**Remarks**  
FY10 Studies & Design effort at USAF: Research Laboratory received 1QFY11 in support of FLTCYBERCOM lifeline study. UNKNOWN will be defined after OMNIBUS contract is awarded.

<b>Management Services (\$ in Millions)</b>				FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	WR	SPAWAR Systems Center:San Diego, CA and Charleston, SC	1.466	1.535	Nov 2010	0.800	Dec 2011	-		0.800	Continuing	Continuing	Continuing
Program Management & Acquisition Support	C/CPFF		2.040	2.805	Nov 2010	0.220	Dec 2011	-		0.220	Continuing	Continuing	Continuing

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<b>Management Services (\$ in Millions)</b>				<b>FY 2011</b>		<b>FY 2012 Base</b>		<b>FY 2012 OCO</b>		<b>FY 2012 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</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 Research & Application:San Diego, CA											
Financial Management Support	C/CPFF	INDUS Technology:San Diego, CA	0.200	0.300	Nov 2010	-		-		-	Continuing	Continuing	Continuing
Cost Estimation and Analyses	C/CPFF	Booz Allen Hamilton:San Diego, CA	0.390	0.636	Nov 2010	0.246	Dec 2011	-		0.246	Continuing	Continuing	Continuing
Logistics Support	C/CPFF	TCI:San Diego, CA	0.340	0.462	Nov 2010	0.200	Dec 2011	-		0.200	Continuing	Continuing	Continuing
<b>Subtotal</b>			4.436	5.738		1.466		-		1.466			
<b>Project Cost Totals</b>			46.823	63.563		12.906		-		12.906			

**Remarks**  
 4QFY11 UNKNOWN will be defined after down select to one contractor at the completion of the Engineering and Manufacturer Development (EMD) competitive contract. This winning prime contractor will be selected for the Limited Deployment (LD) option and to continue development of additional platform set baselines. 4QFY11 funds are paramount to procurement of (2) Engineering Design Model (EDM) units to be installed in 1QFY12 in support of Initial Operational Test & Evaluation (IOT&E), Full Deployment Decision (FDD) and program's ability to meet 5 year requirement from Funds First Obligated to FDD.

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2012 Navy</b>		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0303138N: <i>Consolidated Afloat Network Ent Services(CANES)</i>	<b>PROJECT</b> 9C87: <i>CANES Integration</i>

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2012 Navy		<b>DATE:</b> February 2011
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0303138N: <i>Consolidated Afloat Network Ent Services(CANES)</i>	<b>PROJECT</b> 9C87: <i>CANES Integration</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>Proj 9C87</b>				
Acquisition Milestone - CANES Transition	1	2010	1	2010
Acquisition Milestone - CANES Milestone (MS) B	2	2011	2	2011
Acquisition Milestone - CANES MS C	2	2012	2	2012
Acquisition Milestone - Initial Operational Capability (IOC)	4	2012	4	2012
Acquisition Milestone - Full Deployment Decision Review	3	2013	3	2013
System Development - Surface (2 developers)	2	2010	3	2011
System Development - Preliminary Design Review (PDR)	4	2010	4	2010
System Development - Critical Design Review (CDR)	2	2011	2	2011
System Development - Submarines	2	2013	1	2014
System Development - Technical Insertion (TI) Software (SW)	3	2013	1	2014
System Development - Technical Insertion 2 Hardware (HW)/SW Development	2	2015	1	2016
Software Development - ACS 1.1	1	2010	2	2010
Development Test	4	2010	3	2011
Operational Test - Limited Deployment (LD)	4	2011	1	2012
Operational Test - Initial Operatinal Test & Evaluation (IOT&E)	4	2012	2	2013
Development Test - Submarines	3	2013	2	2014
Operational Test - Submarines	4	2014	1	2015
Development Test - TI	4	2015	1	2016
Operational Test - TI	4	2016	4	2016
Production Milestone - Limited Deployment (LD)	4	2011	4	2012
Production Milestone - Full Deployment (FD)	3	2012	4	2016

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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Deliveries - ACS 1.1	4	2010	4	2010
Deliveries - CANES Engineering Design Model (EDM) Unit	4	2010	4	2010
Deliveries - CANES EDM Unit Environmental Qualification Test (EQT)	4	2011	4	2011
Deliveries - Limited Deployment (LD)	2	2012	2	2013
Deliveries - Full Deployment (FD)	3	2013	4	2016
System Development - Surface (1 developer)	4	2011	1	2013