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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604518N: Combat Information Center Conv							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	17.314	13.250	5.044	0.000	5.044	5.036	5.098	5.210	5.316	Continuing	Continuing
3094: USW Decision Support	14.322	13.250	5.044	0.000	5.044	5.036	5.098	5.210	5.316	Continuing	Continuing
9999: Congressional Adds	2.992	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.872
A. Mission Description and Budget Item Justification											
<p>The objective of this Program Element (PE), under Project 3094, is to provide capabilities to shorten command and control (C2) decision processes for detection-to-engagement across multiple platforms, including those with low-bandwidth communications or intermittent connectivity. The Undersea Warfare Decision Support System (USW-DSS) decision support tool uses a Service Orientated Architecture (SOA) encompassing existing communication links, networks, and contact pictures comprised of sensor data from air, surface, submarine, theater, and surveillance platforms to connect sensors and weapons. The capabilities delivered by USW-DSS are critical not only for the Sea Combat Commander (SCC) but also for the Theater USW Commander (TUSWC) and Anti Submarine Warfare Commander (ASWC) to fulfill the requirement for an integrated capability to plan, conduct, and coordinate USW operations across multiple ASW platforms. USW-DSS will provide common and improved visualization, integrated USW platform sensor data sharing, reduced data entry, improved sensor performance predictions, data fusion, and reduced redundancy across USW Tactical Decision Aids (TDA). The program will provide a greater understanding of the undersea battle space by allowing the entire force (carrier/expeditionary strike group, theater, or other) to have a common and thorough understanding of the battle space with characterized uncertainties.</p>											
<p>USW-DSS (Advanced Capability Build (ACB) 2) will be hosted on the Integrated Shipboard Network System (ISNS) as one of the first Early Adopters, leveraging initial Service Oriented Architecture (SOA) Reference Implementation. USW-DSS (ACB 3 and beyond) will be hosted on the Consolidated Automated Networks and Enterprise Services (CANES) architecture, which will be fully SOA enabled.</p>											
<p>The objective of this PE, under Project 9D81A in FY09, is to provide infrastructure improvements to the USW-DSS - AN/UYQ-100. The current computer server approach used by USW-DSS, as well as all currently fielded Information Technology (IT) systems, requires significant investment in many areas to field capability to the Fleet. The current approach to loading applications on servers and imposed server cabinet size limitations due to ship installation location provides limited redundancy and prevents future migration to improved Commercial-Off-The-Shelf (COTS) processing power to support planned functionality improvements. To meet Fleet desires to accelerate the fielding of USW-DSS, the Navy needs to migrate to a more cost effective and efficient method of fielding a more scalable, open, upgradeable, reliable computing environment (SOURCE). The focus of this effort will be investigation into adapting and tailoring commercial standards and COTS-based hardware and open source software for SOURCE development.</p>											

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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy				DATE: February 2010	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)		PE 0604518N: Combat Information Center Conv			
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	17.709	13.305	0.000	0.000	0.000
Current President's Budget	17.314	13.250	5.044	0.000	5.044
Total Adjustments	-0.395	-0.055	5.044	0.000	5.044
• Congressional General Reductions		-0.055			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	-0.018	0.000			
• SBIR/STTR Transfer	-0.377	0.000			
• Program Adjustments	0.000	0.000	5.044	0.000	5.044
Congressional Add Details (\$ in Millions, and Includes General Reductions)					
Project: 9999: Congressional Adds					
Congressional Add: Scalable Open Architecture Upgradeable Reliable Co					
Congressional Add Subtotals for Project: 9999					
Congressional Add Totals for all Projects					
Change Summary Explanation					
Technical: Not applicable.					
Schedule: Not applicable.					
FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.					

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604518N: <i>Combat Information Center</i> Conv				PROJECT 3094: <i>USW Decision Support</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
3094: <i>USW Decision Support</i>	14.322	13.250	5.044	0.000	5.044	5.036	5.098	5.210	5.316	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification <p>Project 3094 will develop the USW-DSS that will provide ASW Control and Control capabilities which enables the CNO vision for ASW Superiority using a "coordinated, networked force of submarines, surface ships, aircraft, and Integrated Undersea Surveillance System (IUSS) assets" with "common and unambiguous views that yield unprecedented operational and tactical situational awareness and highly-detailed knowledge of the undersea environment."</p> <p>USW-DSS provides capabilities to shorten C2 decision processes for detection-to-engagement across multiple platforms, including those with low-bandwidth communications or intermittent connectivity. The USW-DSS decision support tool uses a SOA encompassing existing communication links, networks, and contact pictures comprised of sensor data from air, surface, submarine, theater, and surveillance platforms to connect sensors and weapons. The capabilities delivered by USW-DSS are critical not only for the SCC but also for the TUSWC and ASWC to fulfill the requirement for an integrated capability to plan, conduct, and coordinate USW operations across multiple ASW platforms. USW-DSS will provide common and improved visualization, integrated USW platform sensor data sharing, reduced data entry, improved sensor performance predictions, data fusion, and reduced redundancy across USW TDAs. The program will provide a greater understanding of the undersea battle space by allowing the entire force (carrier/expeditionary strike group, theater, or other) to have a common and thorough understanding of the battle space with characterized uncertainties.</p>											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
USW-DSS Advanced Capability Build 2.0 Development / Integration / Test						10.876	1.375	0.000	0.000	0.000	
Integrate and test additional USW-DSS tools/capabilities including Common Tactical Picture, Platform Data Fusion Integration, Cross-Platform Data Fusion, Automated Asset Allocation, Asset/Threat Sensor/Weapon Performance Prediction, Asset/Threat State Information, Enhance Vulnerability Analysis, Enhanced Allocation/Search, Improved ASW Track Management, Automated Re-planning,											

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)		R-1 ITEM NOMENCLATURE PE 0604518N: Combat Information Center Conv		PROJECT 3094: USW Decision Support		
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Engagement Target Pairing and improved Theater USW capabilities. Incorporate visualization/display service currently demonstrated as Theater ASW Composeable FORCEnet (CFn) prototype. FY 2009 Accomplishments: Complete integration, testing, and evaluation of new functionality in USW-DSS incremental ACB 2.0. Develop and implement upgrades based upon Operational Testing. Conduct development, integration, testing, and evaluation of ACB 2.0 upgrades and correct deficiencies identified during Operational Assessments. Integrate USW-DSS with ISNS architecture. FY 2010 Plans: Integrate USW-DSS with ISNS architecture.						
USW-DSS Advanced Capability Build 3.0 Development / Integration / Test Integrate and test additional/improved USW-DSS tools/capabilities based on ACB 2.0, including Enhanced Common Tactical Picture and Cross Platform Data Fusion. Begin incorporation of High Value Unit (HVVU) protection planning tools for transit and sustained operating area conditions. Integrate Office of Naval Research (ONR) Decision Support Dynamic Target Engagement (DS-DTE) algorithms for asset/target pairing. Improve combat system integration to further reduce detect-to-engage timeline through AN/SQQ-89 ACB-11, CV-TSC AN/SQQ-34 Increment 2 and Surveillance Towed Array Sensor System (SURTASS) Build 4.0 design coordination. Define scaled Maritime Patrol and Reconnaissance Aircraft (MPRA) variant and support delivery to PMA 290 for P8 initial deliveries. FY 2009 Accomplishments: Initiate specification and architecture for USW-DSS ACB 3.0. FY 2010 Plans: Continue development and integration of USW-DSS increment ACB 3.0 through the peer review process.		1.375	11.175	3.894	0.000	3.894

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: Complete development and integration of USW-DSS increment ACB 3.0. Conduct test in at-sea environment via Step 4 Peer Review Process.						
USW-DSS Advanced Capability Build 4.0 Development / Integration / Test Integrate and test additional/improved USW-DSS tools/capabilities based on ACB 3.0, including integrated mission planning/execution tools, ASW track management, situational awareness capabilities, data management (including automated recommendations) and interfaces with tactical and environmental sensors. FY 2011 Base Plans: Initiate specification and architecture for USW-DSS ACB 4.0.		0.000	0.000	0.650	0.000	0.650
ISNS/CANES Integration FY 2009 Accomplishments: Began the required integration and testing for migration to the Integrated Shipboard Network System (ISNS) (USW-DSS ACB 2.0). FY 2010 Plans: Continue the required integration and testing for migration to the Integrated Shipboard Network System (ISNS) (USW-DSS ACB 2.0) and begin planning for the migration to the Consolidated Automated Networks and Enterprise Services (CANES) (USW-DSS ACB 3.0 and out) for surface platforms. FY 2011 Base Plans: Continue the required integration and testing for the migration to the Consolidated Automated Networks and Enterprise Services (CANES) (USW-DSS ACB 3.0 and out) for surface platforms.		2.000	0.700	0.500	0.000	0.500

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy									DATE: February 2010		
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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
DAWDF Defense Acquisition Workforce Development Fund FY 2009 Accomplishments: N/A						0.071	0.000	0.000	0.000	0.000	
Accomplishments/Planned Programs Subtotals						14.322	13.250	5.044	0.000	5.044	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• OPN/2176: USW Support Equipment (Related Portion)	1.781	2.697	2.613	0.000	2.613	3.693	3.664	3.757	3.825	Continuing	Continuing
D. Acquisition Strategy											
-Hardware/Software integration contractor funded through SBIR Phase III contract.											
E. Performance Metrics											
- Reduce the Detect-to-Engage timeline, false contact rate, and false alarm rate by employing a service-orientated architecture between the sensors and weapons.											
- ASW Search Plan/Mission Planning reduced from 6 hours to 1 hour between USW-DSS Build 1 and Build 2.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy											DATE: February 2010		
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Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
Primary H/W & S/W Development	WR	NAWC Patuxent River, MD	0.000	0.300	Oct 2009	0.300	Oct 2010	0.000		0.300	Continuing	Continuing	Continuing
Primary H/W & S/W Development	WR	NAVSEA Dahlgren, VA	0.000	0.501	Oct 2009	0.200	Oct 2010	0.000		0.200	Continuing	Continuing	Continuing
Primary H/W & S/W Development	WR	NAVSEA Carderock, MD	1.728	0.834	Oct 2009	0.405	Oct 2010	0.000		0.405	Continuing	Continuing	Continuing
Primary H/W & S/W Development	WR	NAVSEA Keyport, WA	2.073	0.764	Oct 2009	0.225	Oct 2010	0.000		0.225	Continuing	Continuing	Continuing
Primary H/W & S/W Development	WR	NAVSEA Newport, RI	6.728	2.693	Oct 2009	0.750	Oct 2010	0.000		0.750	Continuing	Continuing	Continuing
Primary H/W & S/W Development	WR	SSC San Diego, CA	0.550	0.300	Jan 2010	0.300	Oct 2010	0.000		0.300	Continuing	Continuing	Continuing
Primary H/W & S/W Development	WR	VAR1, (*See Remark) Various	0.839	0.000		0.000		0.000		0.000	0.000	0.839	Continuing
Primary H/W & S/W Development	C/CPFF	Adaptive Methods VA	3.086	2.012	Dec 2009	0.650	Nov 2010	0.000		0.650	Continuing	Continuing	Continuing
Primary H/W & S/W Development	C/CPFF	JHU/APL MD	1.888	0.537	Nov 2009	0.500	Nov 2010	0.000		0.500	Continuing	Continuing	Continuing
Primary H/W & S/W Development	C/CPFF	Progeny VA	6.279	2.024	Jan 2010	0.500	Nov 2010	0.000		0.500	Continuing	Continuing	Continuing
Primary H/W & S/W Development	C/CPFF	VAR2, (*See Remark) Various	2.074	2.565	Dec 2009	0.494	Nov 2010	0.000		0.494	Continuing	Continuing	Continuing
Subtotal			25.245	12.530		4.324		0.000		4.324			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604518N: Combat Information Center Conv				PROJECT 3094: USW Decision Support					
Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
Remarks * Consists of multiple performing activities with funding for each not greater than \$1 million per year.													
Test and Evaluation (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
At-Sea Test and Evaluation	WR	VAR (*See Remark) Various	0.900	0.300	Dec 2009	0.300	Dec 2010	0.000		0.300	Continuing	Continuing	Continuing
Subtotal			0.900	0.300		0.300		0.000		0.300			
Remarks * Consists of multiple performing activities with funding for each not greater than \$1 million per year.													

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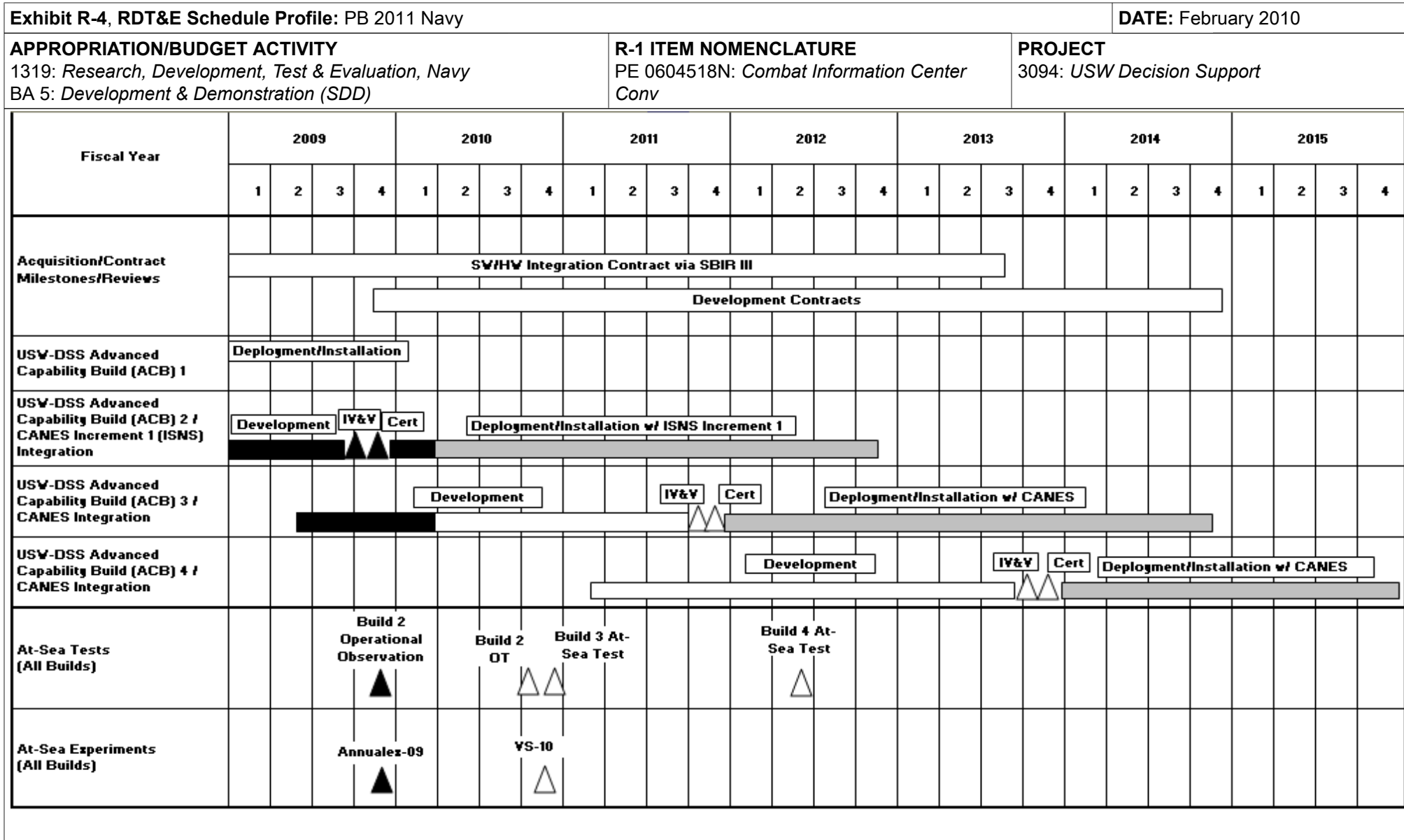
Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy											DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>				R-1 ITEM NOMENCLATURE PE 0604518N: <i>Combat Information Center</i> Conv				PROJECT 3094: <i>USW Decision Support</i>					
Management Services (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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	C/CPAF	BAE Systems MD	1.260	0.420	Jan 2010	0.420	Nov 2010	0.000		0.420	Continuing	Continuing	Continuing
DAWDF	Various/ Various	Not Specified Not Specified	0.071	0.000		0.000		0.000		0.000	0.000	0.071	Continuing
Subtotal			1.331	0.420		0.420		0.000		0.420			
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			27.476	13.250		5.044		0.000		5.044			
Remarks													

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604518N: <i>Combat Information Center</i> Conv	PROJECT 3094: <i>USW Decision Support</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
USW-DSS Build 1 Delivery	1	2009	1	2010
USW-DSS Build 2 Development	1	2009	3	2009
USW-DSS Build 2 Independent Validation/Verification	3	2009	4	2009
USW-DSS Build 2 Certification	4	2009	4	2009
USW-DSS Build 2 Delivery to ISNS Increment 1	4	2009	4	2012
USW-DSS Build 3 Development	2	2009	3	2011
USW-DSS Build 3 Independent Validation/Verification	4	2011	4	2011
USW-DSS Build 3 Certification	4	2011	4	2011
USW-DSS Build 3 Delivery to CANES	4	2011	4	2014
USW-DSS Build 4 Development	1	2011	3	2013
USW-DSS Build 4 Independent Validation/Verification	3	2013	4	2013
USW-DSS Build 4 Certification	4	2013	4	2013
USW-DSS Build 4 Delivery to CANES	4	2013	4	2015
USW-DSS Build 2 Operational Observation	4	2009	4	2009
ANNUALEX-09	4	2009	4	2009
USW-DSS Build 2 Operational Test	4	2010	4	2010
Valiant Shield (VS-10) Experiment	4	2010	4	2010
USW-DSS At-Sea Test - Build 3	4	2010	4	2010

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

1319: *Research, Development, Test & Evaluation, Navy*
BA 5: *Development & Demonstration (SDD)*

R-1 ITEM NOMENCLATURE

PE 0604518N: *Combat Information Center*
Conv

PROJECT

3094: *USW Decision Support*

	Start		End	
Event	Quarter	Year	Quarter	Year
USW-DSS At-Sea Test - Build 4	2	2012	2	2012

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
9999: <i>Congressional Adds</i>	2.992	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	9.872
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification
 Project 9D81A: The Scalable Open Architecture Upgradeable Reliable Computing Environment will provide infrastructure improvements to the Undersea Warfare - Decision Support System (USW-DSS - AN/UYQ-100). To meet Fleet desires to accelerate the fielding of USW-DSS, the Navy needs to migrate to a more cost effective and efficient method of fielding a more scalable, open, upgradeable, reliable computing environment (SOURCE). The focus of this effort will be an investigation into adapting and tailoring commercial standards and COTS-based hardware and open source software for SOURCE development.

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

	FY 2009	FY 2010
Congressional Add: Scalable Open Architecture Upgradeable Reliable Co <i>FY 2009 Accomplishments:</i> N/A	2.992	0.000
Congressional Adds Subtotals	2.992	0.000

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

D. Acquisition Strategy
N/A

E. Performance Metrics
Congressional Add.

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