Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy										DATE: February 2012	
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*				R-1 ITEM NOMENCLATURE PE 0603553N: *Surface ASW*							
COST ($ in Millions)	**FY 2011**	**FY 2012**	**FY 2013 Base**	**FY 2013 OCO**	**FY 2013 Total**	**FY 2014**	**FY 2015**	**FY 2016**	**FY 2017**	**Cost To Complete**	**Total Cost**
Total Program Element	44.172	29.787	6.704	-	6.704	5.696	4.409	4.452	4.479	Continuing	Continuing
1704.: *Undersea Warfare*	40.192	29.787	6.704	-	6.704	5.696	4.409	4.452	4.479	Continuing	Continuing
9999: *Congressional Adds*	3.980	-	-	-	-	-	-	-	-	0.000	3.980

A. Mission Description and Budget Item Justification

The Anti-Submarine Warfare (ASW) Advanced Development project provides advanced development demonstration and validation of technology for potential surface sonar and combat system applications. Program Element (PE) 0603553N has been designated to support emerging multi-static technologies, and the Chief of Naval Operations' (CNO) ASW Initiative. For FY09 and prior, efforts focused on resolution of technical issues associated with providing capability against the FY09 and beyond threat, with emphasis on shallow water/littoral areas, deep water Undersea Warfare (USW), and demonstration and validation of USW concepts and technology. Key technology areas included active sonar transmissions; advanced signal and data processing; active sonar classification; towed and hull arrays; transducer technology; and periscope detection techniques. Starting in FY07, the CNO's ASW Initiative (formerly known as Task Force ASW) included the development of new and innovative technologies. Efforts associated with these technologies include design, development, integration, and testing of future undersea superiority systems. These systems include distributed sensor systems; Vertical Line Array (VLA); static active buoy fields; submarine countermeasures; compact rapid-effect weapons; longer-range radio systems; multi-static sonar; Continuous Active Sonar (CAS) and Variable Depth Sonar (VDS); and multi-sensor data fusion, including multi-platform data fusion and net-centric USW concepts. An Office of the Chief of Naval Operations (OPNAV) letter of direction limits the scope of this project, beginning in FY10, to the development of CAS/VDS and the continuation of studies in support of the ASW Initiative.

Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Navy	DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603553N: *Surface ASW*

B. Program Change Summary ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	21.673	29.797	0.867	-	0.867
Current President's Budget	44.172	29.787	6.704	-	6.704
Total Adjustments	22.499	-0.010	5.837	-	5.837
• Congressional General Reductions	-	-0.010			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	19.000	-			
• SBIR/STTR Transfer	-0.371	-			
• Program Adjustments	-	-	5.845	-	5.845
• Rate/Misc Adjustments	-	-	-0.008	-	-0.008
• Congressional General Reductions Adjustments	-0.130	-	-	-	-
• Congressional Add Adjustments	4.000	-	-	-	-

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2011	FY 2012
Project: 9999: *Congressional Adds*		
Congressional Add: *SMALL BUSINESS INSERTION*	3.980	-
Congressional Add Subtotals for Project: 9999	3.980	-
Congressional Add Totals for all Projects	3.980	-

Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603553N: *Surface ASW*	PROJECT 1704.: *Undersea Warfare*	

COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
1704.: *Undersea Warfare*	40.192	29.787	6.704	-	6.704	5.696	4.409	4.452	4.479	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The CNO's ASW initiative is a focused effort to identify the most promising ASW technologies through a process of discovery, assessment, experimentation, and analysis. The CNO's ASW initiative will coordinate the development of technologies which move beyond incremental or marginal improvements in ASW effectiveness. The CNO's vision of "fundamentally changing the way ASW is currently conducted to render the enemy submarine irrelevant against US and coalition forces" necessitates a change in the calculus of how the US Navy conducts ASW. Central to the CNO's ASW initiatives achieving the CNO's vision are several innovative approaches which include using the art-of-the-technologically-possible; minimizing force-on-force; reducing the ASW end-to-end time line; supporting rapid maneuver; developing off-board and distributed ASW detection systems; and finding innovative weapons solutions. To achieve these key approaches, it is essential to develop new ASW technologies and conduct at-sea experiments to prove/disprove technology concepts and collect corroborating data. An OPNAV letter of direction limits the scope of this project, beginning in FY10, to the development of CAS/VDS and the continuation of studies in support of the ASW Initiative.

The CAS/VDS sonar is intended, at a minimum, to support ASW escort missions for the Littoral Combat Ship (LCS). The system shall be developed as an effective and affordable LCS deep water, wide area, and active sonar search capability in the form of a VDS for inclusion as part of the ASW Mission Module. The program shall target LCS-2 as the test platform. Efforts shall include development of a Launch and Retrieval system designed to survive high tow speeds, provide a high sweep rate capability and large stand-off detection ranges and should outperform current systems under all conditions. Components should leverage existing systems such as the Multi-Function Towed Array (MFTA) to limit costs and reduce risk of early efforts. Efforts will also include the conduct of studies to validate performance goals and design options and should leverage the UK 2087 VDS test program to the maximum practical extent. The technology development timeline should be aligned to provide an introduction of the technology through the Advanced Capability Build (ACB) process.
The detection and identification of underwater mines based on structural acoustic features has been successfully demonstrated This structural acoustics (SA) approach offers significant increases in coverage rates together with higher probabilities of detection and lower false alarm rates against most of the threat mines the Navy is expected to encounter in the foreseeable future. Highly successful blind tests have been carried out demonstrating high performance detection and classification with low false alarm rates. This technology is now in transition to the fleet. The work proposed here, is to develop and demonstrate a long range/high coverage rate ASW systems concept based on the Low-Frequency Broadband (LFBB) technology using a fleet sonar AN/SQQ-89 on surface combatants.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Title: CNO ASW Initiatives	21.192	29.787	4.209
Articles:	0	0	0
FY 2011 Accomplishments:			

Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603553N: *Surface ASW*	PROJECT 1704.: *Undersea Warfare*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
Continued development of CAS and VDS for surface combat systems, continued studies of new acoustic, non-acoustic, and off-board sensors and continued independent critical review and analysis of alternatives of selected and potential CNO ASW initiative technologies. ***FY 2012 Plans:*** Complete CAS/VDS Advanced Development Model (ADM) development, fabrication and land-based testing of towed source, receive array, handling system and in-board electronics, controls and displays. Install CAS/VDS ADM and conduct at-sea testing on a White Ship (commercial leased platform). Initiate efforts to mature ADM to Engineering Development Model (EDM) level. Continue independent critical review and analysis of alternatives of selected and potential CNO ASW initiative technologies. ***FY 2013 Plans:*** Install CAS/VDS ADM on Littoral Combat Ship (LCS) platform and conduct at-sea testing of ADM. Continue efforts to mature ADM to EDM level. Continue independent critical review and analysis of alternatives of selected and potential CNO ASW initiative technologies.			
Title: Littoral Remote Sensing (LRS) ***Articles:*** ***FY 2011 Accomplishments:*** - Implement advanced development and testing of remote sensing algorithms for detection and classification for maritime targets. - Develop and test simultaneous retrieval of environmental parameters from imagery for use in reducing false alarms and improving classification of maritime targets. - Develop and test fusion of multiple remote sensing retrievals to enhance target exploitation. - Prepare necessary transition paths to allow acceptance of algorithms for operational evaluation, user training, and minimal timelines for operational use. Note: Funding for Littoral Remote Sensing (LRS) was part of the 2011 DoD Omnibus Reprogramming for ASW/ISR Capability.	17.500 0	-	-
Title: AN/SQS-53C Structural Acoustics Sensor Program ***Articles:*** ***Description:*** The detection and identification of underwater mines based on structural acoustic features has been successfully demonstrated. This structural acoustics (SA) approach offers significant increases in coverage rates together with higher probabilities of detection and lower false alarm rates against most of the threat mines the Navy is expected to encounter in the foreseeable future. Highly successful blind tests have been carried out demonstrating high performance detection and classification with low false alarm rates. This technology is now in transition to the fleet. The Navy will develop and demonstrate a long range/high coverage rate ASW systems concept based on the LFBB technology using a fleet sonar AN/SQQ-89 on surface	1.500 0	-	2.495 0

Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603553N: *Surface ASW*	PROJECT 1704.: *Undersea Warfare*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2011	FY 2012	FY 2013
combatants. Specifically, using a standard AN/SQQ-53C as a source and the Multi-Function Towed Array (MFTA) as a receiver. In the Speed to Fleet effort, the Navy will build a special processor that will "roll on" the surface combatant and be integrable into the existing AN/SQQ-89 system. The processor will run codes already developed in the ONR programs, but now adapted to the ASW problem. Ultimately, the demonstration will involve testing and documenting the ability of the approach to distinguish and correctly identify low Doppler bottom, near bottom, submarines and false targets as a function of speed and range from target fields. ***FY 2011 Accomplishments:*** -Initiate and complete processor build. -Initiate and complete software build. ***FY 2013 Plans:*** -Continue processor build. -Continue Software Build.			
Accomplishments/Planned Programs Subtotals	40.192	29.787	6.704

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

Competitively awarded contracts from Broad Agency Announcement (BAA) solicitations.
N/A

E. Performance Metrics

Conduct CAS/VDS ADM Sea Tests 3Q12 (White Ship) and 1Q13 (LCS platform).
Conduct Demonstration Sea Tests 3Q14 (Gray Ship).

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603553N: *Surface ASW*	PROJECT 1704.: *Undersea Warfare*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Technology Development	C/CPFF	AAC:NY	1.134	-		-		-		-	0.000	1.134	
Technology Development	C/CPFF	Adaptive Methods:VA	3.788	-		-		-		-	0.000	3.788	
Technology Development	C/CPFF	Alion Sciences:VA	7.000	1.000	Dec 2011	-		-		-	0.000	8.000	
Technology Development	C/CPAF	EG&G:VA	1.550	0.500	Jan 2012	-		-		-	0.000	2.050	
Technology Development	C/CPFF	In-Depth Engineering:VA	2.375	2.000	Dec 2011	-		-		-	0.000	4.375	
Technology Development	C/CPFF	JHU/APL:MD	25.229	-		-		-		-	0.000	25.229	
Technology Development	C/CPFF	L-3 Communications:VA	3.000	-		-		-		-	0.000	3.000	
Technology Development	C/CPFF	Lockheed Martin - ISS:NY	4.610	2.500	Dec 2011	-		-		-	0.000	7.110	
Technology Development	WR	NSWC/Carderock:MD	2.701	0.500	Dec 2011	-		-		-	0.000	3.201	
Technology Development	WR	NUWC/Keyport:WA	0.790	-		-		-		-	0.000	0.790	
Technology Development	WR	NUWC/Newport:RI	26.570	7.898	Nov 2011	-		-		-	0.000	34.468	
Technology Development	C/CPFF	Northrop Grumman:VA	4.684	-		-		-		-	0.000	4.684	
Technology Development	C/CPFF	UT/ARL:TX	4.908	-		-		-		-	0.000	4.908	
Technology Development	C/CPFF	VAR:VAR*	4.694	-		-		-		-	0.000	4.694	
Technology Development	WR	NFESC/PH:CA	0.300	5.050	Dec 2011	-		-		-	0.000	5.350	
Technology Development	MIPR	SSGC:MS	0.153	3.100	Jan 2012	-		-		-	0.000	3.253	
Detection/Classification Algorithms (LRS)	WR	NAWC/Pax River:MD	1.400	-		-		-		-	0.000	1.400	
Detection/Classification Algorithms (LRS)	C/CPFF	VAR:VAR*	6.200	-		-		-		-	0.000	6.200	
Technology Development (LRS)	WR	NRL:DC	1.400	-		-		-		-	0.000	1.400	
Technology Development (LRS)	C/CPFF	VAR:VAR*	8.450	-		-		-		-	0.000	8.450	
Processor Build	WR	NRL:District of Columbia	0.750	-		1.000	Oct 2012	-		1.000	0.000	1.750	

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603553N: *Surface ASW*	PROJECT 1704.: *Undersea Warfare*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Software Build	WR	NRL:District of Columbia	0.750	-		1.195	Oct 2012	-		1.195	0.000	1.945	
System Install	WR	NRL:District of Columbia	-	-		0.200	Oct 2012	-		0.200	0.250	0.450	
Demonstration Planning and Design	WR	NRL:District of Columbia	-	-		0.100	Oct 2012	-		0.100	0.100	0.200	
Demonstration test	WR	NRL:District of Columbia	-	-		-		-		-	0.750	0.750	
Analysis and Documentation of Demonstration Tests	WR	NRL:District of Columbia	-	-		-		-		-	0.150	0.150	
		Subtotal	112.436	22.548		2.495		-		2.495	1.250	138.729	

Remarks

Note: Funds identified as LRS (Littoral Remote Sensing) are part of the 2011 DoD Omnibus Reprogramming for ASW/ISR Capability.
*Consists of multiple performing activities with funding for each not greater than $1M per year.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
At-Sea Test/Experiment	WR	ONR:VA	5.500	-		-		-		-	0.000	5.500	
Developmental Test & Evaluation	C/CPFF	AAC:NY	1.067	-		-		-		-	0.000	1.067	
Developmental Test & Evaluation	C/CPFF	JHU/APL:MD	-	1.000	Dec 2011	2.008	Dec 2012	-		2.008	Continuing	Continuing	Continuing
Developmental Test & Evaluation	WR	NRL:DC	0.537	-		-		-		-	0.000	0.537	
Developmental Test & Evaluation	WR	NSMA:VA	0.907	-		-		-		-	0.000	0.907	
Developmental Test & Evaluation	WR	NSWC/Carderock:MD	0.672	0.500	Dec 2011	-		-		-	0.000	1.172	

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603553N: *Surface ASW*	PROJECT 1704.: *Undersea Warfare*

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation	WR	NUWC/Newport:RI	8.972	2.000	Nov 2011	1.200	Nov 2012	-		1.200	Continuing	Continuing	Continuing
Developmental Test & Evaluation	C/CPFF	UT/ARL:TX	1.844	-		-		-		-	0.000	1.844	
Developmental Test & Evaluation	C/CPFF	VAR:VAR*	1.025	2.996	Jan 2012	0.801	Dec 2012	-		0.801	Continuing	Continuing	Continuing
Enhanced Data Collection	C/CPFF	JHU/APL:MD	4.462	-		-		-		-	0.000	4.462	
Enhanced Data Collection	C/CPFF	UT/ARL:TX	2.000	-		-		-		-	0.000	2.000	
		Subtotal	26.986	6.496		4.009		-		4.009			

Remarks

*Consists of multiple performing activities with funding for each not greater than $1M per year.

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2012 Cost	FY 2012 Award Date	FY 2013 Base Cost	FY 2013 Base Award Date	FY 2013 OCO Cost	FY 2013 OCO Award Date	FY 2013 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	C/CPAF	BAE Systems:MD	3.736	0.693	Feb 2012	0.175	Dec 2012	-		0.175	Continuing	Continuing	Continuing
Travel	Allot	NAVSEA PEO IWS 5:DC	0.250	0.050	Jan 2012	0.025	Oct 2012	-		0.025	Continuing	Continuing	Continuing
Travel (LRS)	Allot	ONR:DC	0.050	-		-		-		-	0.000	0.050	
		Subtotal	4.036	0.743		0.200		-		0.200			

Remarks

Note: Funds identified as LRS (Littoral Remote Sensing) are part of the 2011 DoD Omnibus Reprogramming for ASW/ISR Capability.

	Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	143.458	29.787		6.704		-		6.704			

Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Navy			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603553N: *Surface ASW*	PROJECT 1704.: *Undersea Warfare*	

	Total Prior Years Cost	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603553N: *Surface ASW*	PROJECT 1704.: *Undersea Warfare*

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 ITEM NOMENCLATURE** PE 0603553N: *Surface ASW*	**PROJECT** 1704.: *Undersea Warfare*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
AN/SQS-53C SAS pg. 1				
CNO ASW Initiative: CNO Experiment/Data Analysis: Conduct At-Sea Experiment (Test Promising Technologies)	1	2011	3	2017
CNO ASW Initiative: CNO Experiment/Data Analysis: Analyze Experimental Data/ Studies	1	2011	4	2017
Phase A: Build: Processor Build	1	2013	4	2013
Phase A: Build: Software Build	1	2013	4	2013
Continuous Active Sonar (CAS) / Variable Depth Sonar (VDS): Build/Test VDS ADM	1	2011	2	2012
Phase A: Build: Milestone B	4	2013	4	2013
Continuous Active Sonar (CAS) / Variable Depth Sonar (VDS): CAS/VDS ADM Sea Test (White Ship)	3	2012	3	2012
Phase A: Build: System Install	1	2014	2	2014
Continuous Active Sonar (CAS) / Variable Depth Sonar (VDS): CAS/VDS ADM Sea Test (LCS Platform)	1	2013	1	2013
Littoral Remote Sensing: Phase A: Detection/Classification Algorithm Development & Testing	1	2012	4	2012
Phase B: Demonstration: Demonstration Test Planning	2	2014	2	2014
Littoral Remote Sensing: Phase B: Develop Multi-sensor Fusion Algorithms & Testing	2	2012	1	2013
Phase B: Demonstration: Demonstration Tests	3	2014	3	2014
Littoral Remote Sensing: Phase C: Demonstration Test Planning & Execution	3	2012	2	2013
Phase B: Demonstration: Analysis and Documentation of Demonstration Tests	4	2014	4	2014
Littoral Remote Sensing: Phase D: System Installation	1	2013	2	2013
Phase B: Demonstration: Milestone C	4	2014	4	2014

Exhibit R-4A, RDT&E Schedule Details: PB 2013 Navy		DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603553N: *Surface ASW*	PROJECT 1704.: *Undersea Warfare*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Littoral Remote Sensing: Phase E: User Training	2	2013	3	2013

Exhibit R-2A, RDT&E Project Justification: PB 2013 Navy			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 1319: *Research, Development, Test & Evaluation, Navy* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	R-1 ITEM NOMENCLATURE PE 0603553N: *Surface ASW*	PROJECT 9999: *Congressional Adds*	

COST ($ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
9999: *Congressional Adds*	3.980	-	-	-	-	-	-	-	-	0.000	3.980
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Congressional Add.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2011	FY 2012
Congressional Add: SMALL BUSINESS INSERTION	3.980	-
FY 2011 Accomplishments: Provide the DESRON Commander, performing the Anti-Submarine Warfare Commander (ASWC) role, the ability to enhance the execution of Surface ASW by enabling net-centric ASW information exchange between assigned units. Currently the ASWC's two primary sensors, Periscope Detection Radar (PDR), SPS-74, and Surface Ship Sonar, AN/SQQ-89A(V)15, only provide data to the installed ship. Sharing this sensor information will dramatically improve the successful execution of the DESRON Commanders ASW mission. This funding will be used to provide engineering services that support integration, testing, evaluation, and certification of the interfaces between the Undersea Warfare - Decision Support System (USW-DSS) Build 2 and above surface ASW sensors. This will be accomplished by executing a formal test plan that includes: formal External Interface Testing (EIT); formal lab-based software certification; and multiple at-sea testing events as part of Development Testing in preparation for Operational Testing Certification.		
Congressional Adds Subtotals	3.980	-

C. Other Program Funding Summary ($ in Millions)

N/A

D. Acquisition Strategy

N/A

E. Performance Metrics

Congressional Add.