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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy **DATE:** April 2013

APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>					R-1 ITEM NOMENCLATURE PE 0204311N: <i>Integrated Surveillance System</i>							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	281.537	29.275	45.922	41.609	-	41.609	31.229	31.230	26.362	26.723	Continuing	Continuing
0344: <i>SUB AUXILIARIES</i>	0.000	0.000	2.998	0.904	-	0.904	0.907	0.907	0.909	0.908	Continuing	Continuing
0766.: <i>IUSS Detect/Classif System</i>	281.537	29.275	42.924	40.705	-	40.705	30.322	30.323	25.453	25.815	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

This Program Element (PE) comprises two projects - 0766 and 0344. Project 0766 provides for Integrated Undersea Surveillance Systems (IUSS) Research and Development Projects under the Maritime Surveillance Systems (MSS) Program Office (PEO SUB PMS 485). IUSS provides the Navy with its primary means of submarine detection both nuclear and diesel. A portion of project 0766 (FSS) is classified, with details available at a higher classification level. Project 0344 funds the Shallow Water Surveillance System (SWSS) project to develop and demonstrate the technology to enable autonomous installation of an acoustic recording device with a clandestine data recovery capability.

The IUSS Research and Development project (0766) funds SURTASS Passive and SURTASS Low Frequency Active (LFA) developments. SURTASS provides the mobile, tactical arm of the Integrated Undersea Surveillance System, providing long range detection and cueing for tactical weapons platforms against both diesel and nuclear powered submarines. SURTASS LFA provides an active adjunct capability for IUSS passive and tactical sensors to assist in countering the quieter diesel and nuclear threats of the 1990s and beyond. The LFA tasks are directed at detection of slow quiet threats in harsh littoral waters.

In order to continue with reductions in life cycle costs and continue with system-wide consolidation, a short-term goal is to develop a common IUSS processor based on NAVSEA's Acoustic Rapid COTS Insertion (ARCI) program. The IUSS Integrated Common Processor (ICP) will have the capability to process and display data from all fixed and mobile underwater systems. The IUSS ICP will be used for all new system installations and replace the legacy systems as they reach end of life and require upgrading. Additionally, SURTASS has consolidated on the TB-29A Twin-line array, a variant of the Submarine TB-29A Long line array. This reduced the number of array variants employed by SURTASS from 3 to 1, and enabled development and logistics cost savings by leveraging off the submarine TB-29A program.

The Shallow Water Surveillance System (SWSS) project (0344) funds the development and demonstration of the Increment 1B system with technology to enable autonomous classification and reporting of specific submarine targets of interest.

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
1319: Research, Development, Test & Evaluation, Navy		PE 0204311N: Integrated Surveillance System			
BA 7: Operational Systems Development					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	21.259	45.922	29.221	-	29.221
Current President's Budget	29.275	45.922	41.609	-	41.609
Total Adjustments	8.016	0.000	12.388	-	12.388
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	8.016	0.000			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	-8.826	-	-8.826
• Rate/Misc Adjustments	0.000	0.000	21.214	-	21.214
Change Summary Explanation					
Technical: Not applicable.					
Schedule: Not applicable.					

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>					R-1 ITEM NOMENCLATURE PE 0204311N: <i>Integrated Surveillance System</i>				PROJECT 0344: <i>SUB AUXILIARIES</i>			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013[#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
0344: <i>SUB AUXILIARIES</i>	0.000	0.000	2.998	0.904	-	0.904	0.907	0.907	0.909	0.908	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012 ^{##} The FY 2014 OCO Request will be submitted at a later date												
<u>A. Mission Description and Budget Item Justification</u>												
The Shallow Water Surveillance System (SWSS) project (0344) funds the development and demonstration of the Increment 1B system with technology to enable autonomous classification and reporting of specific submarine targets of interest.												
<u>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</u>										FY 2012	FY 2013	FY 2014
<i>Title:</i> SWSS										0.000	2.998	0.904
<i>Articles:</i>											0	0
<i>FY 2013 Plans:</i> FY13 SWSS funding will be used for required activities to enable system demonstration in FY15, to include system engineering trade studies and early risk reduction testing of component technologies.												
<i>FY 2014 Plans:</i> FY14 SWSS funding will be used to continue new development and integration of components to support FY15 system demonstration.												
Accomplishments/Planned Programs Subtotals										0.000	2.998	0.904
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A												
<u>Remarks</u>												
<u>D. Acquisition Strategy</u> TBD												
<u>E. Performance Metrics</u> Development of the requirements document for SWSS is one of the primary acquisition documents that will be developed starting in FY13. Performance metrics will either be directly stated in that document or will be derived through the system engineering process used to describe the system specifications.												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Navy													DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>							R-1 ITEM NOMENCLATURE PE 0204311N: <i>Integrated Surveillance System</i>					PROJECT 0344: <i>SUB AUXILIARIES</i>			

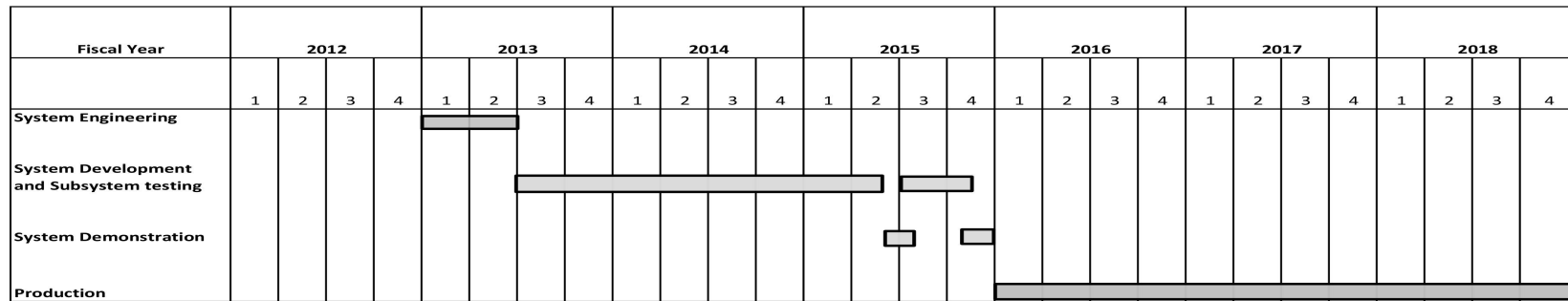
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
System Engineering Trade Studies	Various	SSC PACIFIC:San Diego, CA	0.000	0.000		1.000	Apr 2013	0.000		-		0.000	0.000	1.000	
Component Technology Risk Reduction Testing	Various	SSC PACIFIC:San Diego, CA	0.000	0.000		1.998	Apr 2013	0.904	Nov 2013	-		0.904	Continuing	Continuing	Continuing
Subtotal			0.000	0.000		2.998		0.904		0.000		0.904			

	All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000		2.998		0.904		0.000		0.904			

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy																DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>										R-1 ITEM NOMENCLATURE PE 0204311N: <i>Integrated Surveillance System</i>						PROJECT 0344: <i>SUB AUXILIARIES</i>			



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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0204311N: <i>Integrated Surveillance System</i>	PROJECT 0344: <i>SUB AUXILIARIES</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 0344</i>				
System Engineering	1	2013	2	2013
System Development and Subsystem Testing	3	2013	4	2015
System Demonstration	2	2015	4	2015
Production	1	2016	4	2018

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development					R-1 ITEM NOMENCLATURE PE 0204311N: Integrated Surveillance System				PROJECT 0766.: IUSS Detect/Classif System			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
0766.: IUSS Detect/Classif System	281.537	29.275	42.924	40.705	-	40.705	30.322	30.323	25.453	25.815	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

Note

The FSS portion of 0766 is classified with details available at a higher classification level.

A. Mission Description and Budget Item Justification

A. This project includes efforts for SURTASS. The SURTASS project comprises the mobile, tactical arm of the Integrated Undersea Surveillance System, providing long range detection and cueing for tactical weapons platforms against both diesel and nuclear powered submarines. SURTASS also provides the undersea surveillance necessary to support regional conflicts and sea-lane protection. SURTASS has experienced recent passive and active success against diesel submarines operating in shallow water. SURTASS is leveraging existing developments and reducing costs by using Non-Developmental Items and commercial hardware, supporting common Navy Undersea Warfare processing and towed array developments, and increasing operator efficiency through computer-aided detection and classification processing. SURTASS development efforts include: LFA improvements, common IUSS processing, twin-line array development and processing, improved detection and classification/passive automation to counter quieter threats, additional signal processing, integrated active and passive operations, improved Battle Group support, and improved information processing.

LFA provides an active adjunct capability for IUSS passive and tactical sensors to counter the quieter diesel and nuclear threats of the 1990s and beyond. The LFA tasks are directed at detection of slow, quiet threats in harsh littoral waters. Improvements include TL-29A/LFA integration enhancements, advanced waveforms for littoral/shallow water operations including Doppler sensitive waveforms, and processing algorithms to reduce clutter and reverberation false alarms in shallow water. The LFA task includes development and testing of a compact LFA transmit source array for SWATH-P ships, and upgrade of LFA processing capability in the IUSS Integrated Common Processing (ICP) architecture. The ICP is a derivative of the NAVSEA Submarine Acoustic Rapid COTS Insertion (ARCI) program, and is being augmented for IUSS requirements. Together, the LFA improvements, TL-29A, and the ICP support the SURTASS Active Improvement Program.

Functional improvements are delivered to the Fleet in software "builds" while hardware improvements are delivered through the Tech Insertion (TI) process. Software improvements delivered via the Advanced Surveillance Build (ASB) process are based on the Advanced Processor Build (APB) process begun by the NAVSEA Submarine USW program. Each ASB will introduce new capabilities into SURTASS systems including improved automation, normalizer techniques, adaptive beam forming, and display enhancements. SURTASS participates in the process by contributing algorithms for consideration, supplying peer group members for review of candidate algorithms, participating in test evolutions, and incorporating improved algorithms into operational systems. The TI process, modeled after the NAVSEA Submarine USW hardware improvement program, delivers processing technology improvements to platforms on roughly a 4-year cycle. Hardware upgrades for active

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0204311N: Integrated Surveillance System	PROJECT 0766.: IUSS Detect/Classif System		
and passive arrays and communications systems will also be provided during TI upgrades, but not on a regular planned development cycle as for the processing upgrades.					
B. PEO SUB is involved with the development and maintenance of various IUSS systems. These systems include FDS, FDS-C, and SURTASS. The near-term goal is development of ICP, which will result in a single IUSS processor baseline, with minor maintenance efforts continuing on fielded systems. The existing system architecture, signal processing, contact management, and reporting requirements will be evaluated as well as the requirements for future systems. The development of the ICP will take advantage of automation advancement, array technology improvements, along with IUSS, submarine, and surface USW system commonality. Additionally, a long term goal is to activate all IUSS sensors as part of a coordinated Active Improvement Program. The FSS portion of 0766 is classified with details available at a higher classification level.					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2012	FY 2013	FY 2014
Title: Compact Low Frequency Active			1.960	1.750	1.750
Articles:			0	0	0
FY 2012 Accomplishments: Completed DT for CLFA/TL-29A/ICP. Conducted OT of CLFA/TL-29A/ICP. Continued development of product improvements and corrections associated with CLFA DT/OT and LFA FOT&E. Conducted at-sea testing of product improvements.					
FY 2013 Plans: Continue development of product improvements and corrections associated with CLFA DT/OT and LFA FOT&E. Conduct at-sea testing of product improvements.					
FY 2014 Plans: Continue development of product improvements and corrections associated with CLFA DT/OT and LFA FOT&E. Conduct at-sea testing of product improvements.					
Title: TB-29A/Twin-Line			1.848	1.750	1.750
Articles:			0	0	0
FY 2012 Accomplishments: Continued development of connectionless array technologies and true fiber-optic arrays. Continued efforts to explore Twin-line variants of new submarine Long-line arrays for future application to SURTASS. Continued development of fishing net mitigation approaches.					
FY 2013 Plans: Continue development of connectionless array technologies and true fiber-optic arrays. Continue efforts to explore Twin-line variants of new submarine Long-line arrays for future application to SURTASS. Continue development of fishing net mitigation approaches.					
FY 2014 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy		DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0204311N: <i>Integrated Surveillance System</i>	PROJECT 0766.: <i>IUSS Detect/Classif System</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
Continue development of connectionless array technologies and true fiber-optic arrays. Continue efforts to explore Twin-line variants of new submarine Long-line arrays for future application to SURTASS. Continue development of fishing net mitigation approaches.			FY 2014
Title: Integrated Common Processor (ICP)		12.136	11.018
Articles:		0	0
FY 2012 Accomplishments: Continued development of new automation algorithms and techniques for addressing multi-array high beam count requirements. Continued development of Littoral LFA improvements. Continued tech refresh development in coordination with the Submarine Acoustic Rapid COTS Insertion (ARCI) Program Advanced Processing Build (APB) tech refresh. Continued to address processing improvement recommendations and deficiencies associated with CLFA DT/OT and LFA FOT&E.			10.389
FY 2013 Plans: Continue development of new automation algorithms and techniques for addressing multi-array high beam count requirements. Continue development of Littoral LFA improvements. Continue tech refresh development in coordination with the Submarine Acoustic Rapid COTS Insertion (ARCI) Program Advanced Processing Build (APB) tech refresh. Continue to address processing improvement recommendations and deficiencies associated with CLFA DT/OT and LFA FOT&E.			0
FY 2014 Plans: Continue development of new automation algorithms and techniques for addressing multi-array high beam count requirements. Continue development of Littoral LFA improvements. Continue tech refresh development in coordination with the Submarine Acoustic Rapid COTS Insertion (ARCI) Program Advanced Processing Build (APB) tech refresh. Continue to address processing improvement recommendations and deficiencies associated with CLFA DT/OT and LFA FOT&E.			
Title: Classified Effort		13.331	28.406
Articles:		0	0
Description: The FSS portion of 0766 is classified with details available at a higher classification level.			26.816
FY 2012 Accomplishments: The FSS portion of 0766 is classified with details available at a higher classification level.			0
FY 2013 Plans: The FSS portion of 0766 is classified with details available at a higher classification level.			
FY 2014 Plans:			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0204311N: Integrated Surveillance System				PROJECT 0766.: IUSS Detect/Classif System				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
The FSS portion of 0766 is classified with details available at a higher classification level.												
Accomplishments/Planned Programs Subtotals										29.275	42.924	40.705
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• OPN/2237: Surveillance Towed Array Sensor System	25.547	2.774	9.680		9.680	10.004	8.843	3.297	11.137	0.000	173.238	
Remarks												
D. Acquisition Strategy												
FY 2010: T&E Milestones: CLFA/TL-29A/ICP DT.												
FY 2011: Engineering Milestones: ICP Tech Refresh.												
FY 2011: T&E Milestones: CLFA/TL-29A/ICP DT. LFA/TL-29A/ICP FOT&E.												
FY 2012: T&E Milestones: CLFA/TL-29A/ICP DT/OT. LFA/TL-29A/ICP FOT&E.												
FY 2013: CLFA/TL-29A/ICP OT. LFA/TL-29A/ICP FOT&E.												
FY 2014: ICP Tech Refresh												
The FSS portion of 0766 is classified with details available at a higher classification level.												
E. Performance Metrics												
Successfully achieve CLFA Initial Operational Capability. Successfully complete CLFA Operational Test Readiness Review. Successfully complete CLFA Developmental Test / Operational Test. Successful demonstration of required LFA/CLFA improvements capability. Successful transition of Submarine Advanced Processing Build (APB) functionality into IUSS products. Successful transition of net mitigation technologies into Towed Array baseline.												
The FSS portion of 0766 is classified with details available at a higher classification level.												

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0204311N: Integrated Surveillance System				PROJECT 0766.: IUSS Detect/Classif System					
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
IUSS COMMON ARCHITECTURE	C/CPFF	LOCKHEED MARTIN:VA	8.132	7.215	Nov 2011	5.726	Nov 2012	5.441	Nov 2013	-		5.441	Continuing	Continuing	Continuing
IUSS COMMON ARCHITECTURE	C/CPFF	APL/JHU:MD	0.525	0.525	Nov 2011	0.565	Nov 2012	0.540	Nov 2013	-		0.540	Continuing	Continuing	Continuing
IUSS COMMON ARCHITECTURE	Various	VARIOUS:Not Specified	63.568	0.755	Nov 2011	0.790	Nov 2012	0.764	Nov 2013	-		0.764	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENT/CLFA/LFA	WR	NFESC:CA	0.398	0.447	Nov 2011	0.452	Nov 2012	0.438	Nov 2013	-		0.438	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENT/CLFA/LFA	WR	SSC PAC:CA	0.227	0.227	Nov 2011	0.226	Nov 2012	0.251	Nov 2013	-		0.251	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENT/CLFA/LFA	C/CPFF	APL/JHU:MD	0.375	0.375	Nov 2011	0.339	Nov 2012	0.326	Nov 2013	-		0.326	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENT/CLFA/LFA	Various	VARIOUS:Not Specified	116.529	0.323	Nov 2011	0.339	Nov 2012	0.326	Nov 2013	-		0.326	Continuing	Continuing	Continuing
N74 ASW STUDY	WR	SSC PAC:CA	0.449	0.000	Nov 2011	0.000	Nov 2012	0.000	Nov 2013	-		0.000	Continuing	Continuing	Continuing
N74 ASW STUDY	Various	VARIOUS:Not Specified	7.545	0.000	Nov 2011	0.000	Nov 2012	0.000	Nov 2013	-		0.000	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	C/CPFF	APL/JHU:VA	0.625	0.625	Nov 2011	0.677	Nov 2012	0.652	Nov 2013	-		0.652	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	WR	ADAPTIVE METHODS:VA	0.222	0.271	Nov 2011	0.229	Nov 2012	0.223	Nov 2013	-		0.223	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	Various	VARIOUS:Not Specified	8.100	0.365	Nov 2011	0.337	Nov 2012	0.279	Nov 2013	-		0.279	Continuing	Continuing	Continuing
FSS - Classified	Various	TBD:Not Specified	11.535	13.331	Nov 2011	28.406	Nov 2012	26.816	Nov 2013	-		26.816	Continuing	Continuing	Continuing
Subtotal			218.230	24.459		38.086		36.056		0.000		36.056			
Remarks															
The FSS portion of 0766 is classified with details available at a higher classification level.															

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>						R-1 ITEM NOMENCLATURE PE 0204311N: <i>Integrated Surveillance System</i>						PROJECT 0766.: <i>IUSS Detect/Classif System</i>			
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
IUSS COMMON ARCHITECTURE	WR	SSC PAC:CA	1.707	1.511	Nov 2011	1.524	Nov 2012	1.469	Nov 2013	-		1.469	Continuing	Continuing	Continuing
IUSS COMMON ARCHITECTURE	Various	VARIOUS:Not Specified	3.580	0.310	Nov 2011	0.314	Nov 2012	0.303	Nov 2013	-		0.303	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENTS/CLFA/ LFA	WR	SSC PAC:CA	0.194	0.204	Nov 2011	0.194	Nov 2012	0.186	Nov 2013	-		0.186	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENTS/CLFA/ LFA	Various	VARIOUS:Not Specified	7.207	0.090	Nov 2011	0.097	Nov 2012	0.093	Nov 2013	-		0.093	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	Various	VARIOUS:Not Specified	0.283	0.294	Nov 2011	0.290	Nov 2012	0.280	Nov 2013	-		0.280	Continuing	Continuing	Continuing
Subtotal			12.971	2.409		2.419		2.331		0.000		2.331			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
IUSS COMMON ARCHITECTURE	C/CPFF	LOCKHEED MARTIN:VA	0.953	0.821	Nov 2011	0.823	Nov 2012	0.791	Nov 2013	-		0.791	Continuing	Continuing	Continuing
IUSS COMMON ARCHITECTURE	Various	Not Specified:Not Specified	6.093	0.392	Nov 2011	0.395	Nov 2012	0.380	Nov 2013	-		0.380	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENTS/CLFA/ LFA	WR	OPTEVFOR:Not Specified	0.125	0.125	Nov 2011	0.129	Nov 2012	0.124	Nov 2013	-		0.124	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENTS/CLFA/ LFA	Various	Not Specified:Not Specified	20.602	0.071	Nov 2011	0.072	Nov 2012	0.070	Nov 2013	-		0.070	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	C/CPFF	APL/JHU:MD	0.189	0.196	Nov 2011	0.194	Nov 2012	0.185	Nov 2013	-		0.185	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	Various	Not Specified:Not Specified	2.568	0.000		0.000		0.000	Nov 2013	-		0.000	Continuing	Continuing	Continuing
Subtotal			30.530	1.605		1.613		1.550		0.000		1.550			

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development						R-1 ITEM NOMENCLATURE PE 0204311N: Integrated Surveillance System				PROJECT 0766.: IUSS Detect/Classif System					
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
IUSS COMMON ARCHITECTURE	Various	VARIOUS:Not Specified	4.300	0.606	Nov 2011	0.613	Nov 2012	0.584	Nov 2013	-		0.584	Continuing	Continuing	Continuing
ACTIVE IMPROVEMENTS/CLFA/LFA	Various	VARIOUS:Not Specified	15.412	0.098	Nov 2011	0.097	Nov 2012	0.093	Nov 2013	-		0.093	Continuing	Continuing	Continuing
ARRAY IMPROVEMENTS	Various	VARIOUS:Not Specified	0.094	0.098	Nov 2011	0.096	Nov 2012	0.091	Nov 2013	-		0.091	Continuing	Continuing	Continuing
Subtotal			19.806	0.802		0.806		0.768		0.000		0.768			
			All Prior Years	FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			281.537	29.275		42.924		40.705		0.000		40.705			
Remarks The R3 and the R4 / R4A reflect the UNCLASSIFIED portion of the PE.															

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2014 Navy

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

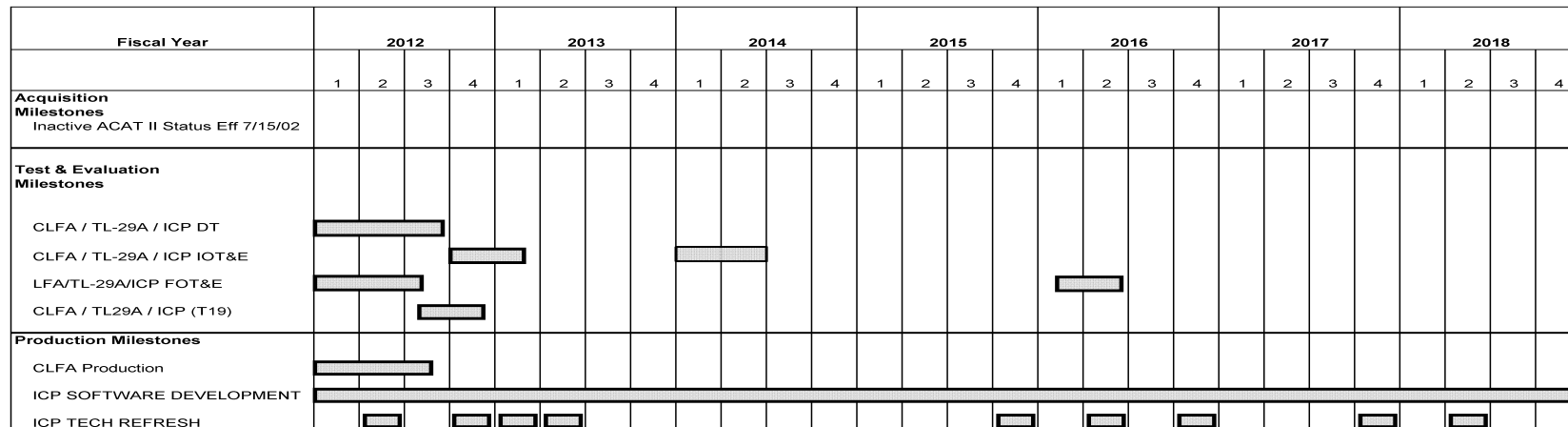
1319: Research, Development, Test & Evaluation, Navy
BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0204311N: Integrated Surveillance System

PROJECT

0766.: IUSS Detect/Classif System



UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Navy			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0204311N: <i>Integrated Surveillance System</i>	PROJECT 0766.: <i>IUSS Detect/Classif System</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 0766.L24				
CLFA / TL-29A/ ICP DT	1	2012	3	2012
CLFA / TL-29A/ ICP IOT & E	4	2012	2	2014
LFA / TL-29A/ ICP FOT & E	1	2012	2	2016
CLFA / TL29A / ICP (T19)	3	2012	4	2012
CLFA Production	1	2012	3	2012
ICP Software Development	1	2012	4	2018
ICP Tech Refresh	2	2012	2	2018