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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 6: RDT&E Management Support					R-1 Program Element (Number/Name) PE 0604256N / Threat Simulator Development							
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	0.000	27.843	43.261	45.272	-	45.272	41.861	22.359	21.400	22.064	Continuing	Continuing
0602: Eletronics W/F Env Simulation (ECHO)	0.000	15.624	30.151	30.536	-	30.536	27.466	7.607	7.078	7.223	Continuing	Continuing
0672: Effect Nav E/W (ENEWS)	0.000	12.219	13.110	14.736	-	14.736	14.395	14.752	14.322	14.841	Continuing	Continuing

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

A. Mission Description and Budget Item Justification

This is a continuing program that consolidates the design, fabrication and integration of Naval Electronic Warfare (EW) threat simulators for increased managerial emphasis and coordination. These simulator development efforts provide realistic Developmental and Operational Test and Evaluation environments to test EW systems and defensive tactics. These projects develop threat Anti-Air and Anti-Ship weapon system simulators in accordance with the Services' requirements.

The 0602 Project, Electronic Warfare Environment Simulation, directly supports the Test and Evaluation resource requirements for all Naval Air EW development programs to include multi-spectral situational awareness and countermeasures. Programs in development and future programs include: ALR-67(v) 3, Integrated Defensive Electronic Countermeasures Suite ALQ-214, the AAR-47 (v) 3, AVR-2, Advanced 6" Expendable, Advanced Strategic Tactical Expendable, ALQ-144A, Joint and Allied Threat Awareness System, Joint Strike Fighter, EA-18G, LR700, Low Band Transmitter, P-8A, and the Next Generation Jammer.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RESEARCH, DEVELOPMENT, TEST and EVALUATION MANAGEMENT SUPPORT because it supports efforts directed toward sustaining or modernizing installations or operations required for general research, development, test and evaluation.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	30.790	43.261	43.084	-	43.084
Current President's Budget	27.843	43.261	45.272	-	45.272
Total Adjustments	-2.947	-	2.188	-	2.188
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.428	-			
• Program Adjustments	-	-	8.600	-	8.600
• Rate/Misc Adjustments	-	-	-6.412	-	-6.412

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1319: Research, Development, Test & Evaluation, Navy / BA 6: RDT&E Management Support		PE 0604256N / Threat Simulator Development			
• Congressional General Reductions Adjustments		-2.519	-	-	-
Change Summary Explanation					
Technical: Not applicable.					
Schedule: Not applicable.					

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy										Date: March 2014		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0604256N / Threat Simulator Development				Project (Number/Name) 0602 / Eletronics W/F Env Simulation (ECHO)			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0602: Eletronics W/F Env Simulation (ECHO)	-	15.624	30.151	30.536	-	30.536	27.466	7.607	7.078	7.223	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
The objective of this project is development of necessary simulation facilities and approaches to allow determination of the effectiveness of Electronic Warfare (EW) in real world engagement situations and to support the introduction of modern, effective systems into Naval Aviation. The heavy use of test resources by all Services demonstrates the importance of these assets. The Navy has been very successful in executing all of its major programs, and to date has had no major technical problems.												
The Electronic Warfare Environment Simulation project is unique because it is the only program within the Department of Defense which develops and provides Naval anti-air warfare threat assets for Test and Evaluation (T&E).												
This project directly supports the T&E resource requirements for all Naval Air EW development programs, to include multi-spectral situational awareness and countermeasures. Programs in development and future programs include: ALR-67(v) 3, Integrated Defensive Electronic Countermeasures Suite ALQ-214, the AAR-47 (v) 3, AVR-2, Advanced 6" Expendable, Advanced Strategic Tactical Expendable, ALQ-144A, Joint and Allied Threat Awareness System, Joint Strike Fighter, EA-18G, LR700, Low Band Transmitter, P-8A, and the Next Generation Jammer.												
This project provides for the development of an Integrated Air Defense T&E capability to be fielded at each of the three sites comprising the Navy's Tri-Center complex: Naval Air Warfare Center Weapons Division, China Lake and Point Mugu in CA, and Naval Air Warfare Center Aircraft Division, Patuxent River, MD.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: RADIO FREQUENCY (RF) THREAT CAPABILITIES									14.645	-	-	
									Articles: -	-	-	
Description: Provide the test community with the modern threat systems necessary for T&E of airborne RF alert, Situation Awareness, targeting systems and airborne RF response systems.												
The projects that have been grouped in the Radio Frequency Threat Capabilities accomplishment area through FY 2013 will realign to either the Acquisition and Measurement Capabilities accomplishment or the Engagement Capabilities accomplishment starting in FY 2014. This change was made to allow a more detailed tracking for those projects.												

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Appropriation/Budget Activity 1319 / 6		R-1 Program Element (Number/Name) PE 0604256N / <i>Threat Simulator Development</i>		Project (Number/Name) 0602 / <i>Eletronics W/F Env Simulation (ECHO)</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
<i>FY 2013 Accomplishments:</i> - Continued the upgrade to the J-32B Advanced Threat System at Electronic Combat Range (ECR). Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Continued the development of an advanced Early Warning and Acquisition radar hybrid laboratory simulator. Project realigned to the Acquisition and Measurement Capabilities accomplishment in FY 2014. - Continued the development of the Long Range Threat System (LRTS) at ECR. Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Continued the update to existing laboratory simulators of foreign radars. Project realigned to the Acquisition and Measurement Capabilities accomplishment in FY 2014. - Continued the development of a Digital Radio Frequency Memory Jammer simulator. Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Completed the development of the LRTS in laboratories. - Initiated the upgrade and integration of missile simulation models. Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Initiated the upgrade of open-loop threat simulators at ECR. Project realigned to the Acquisition and Measurement Capabilities accomplishment in FY 2014. - Initiated the development of an open air radio frequency beam measurement capability. Project realigned to the Acquisition and Measurement Capabilities accomplishment in FY 2014. - Initiated the development of a closed-loop threat surface to air missile system simulator. Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Initiated the conversion of a threat system. Project realigned to the Engagement Capabilities accomplishment in FY 2014. <i>FY 2014 Plans:</i> N/A <i>FY 2015 Plans:</i> N/A					
<i>Title:</i> ACQUISITION AND MEASUREMENT CAPABILITIES <div style="text-align: right;"><i>Articles:</i></div> <i>Description:</i> Provide the test community with the modern threat acquisition systems and effectiveness measurement systems necessary for Test and Evaluation of airborne alert, Situation Awareness, targeting systems and airborne response systems.			- -	10.006 -	9.030 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
<p>The Acquisition and Measurement Capabilities accomplishment was created to allow a more detailed tracking for some of the projects that were previously grouped under the Radio Frequency (RF) Threat Capabilities accomplishment. All projects listed as continue or complete under this accomplishment were realigned from the RF Threat Capabilities accomplishment.</p> <p>FY 2013 Accomplishments: N/A</p> <p>FY 2014 Plans: Projects listed as Continue or Complete under this accomplishment were realigned from the RF Threat Capabilities accomplishment.</p> <p>- Continue the update to existing laboratory simulators of foreign radars that was realigned from the RF Threat Capabilities accomplishment.</p> <p>- Continue the upgrade of open-loop threat simulators at Electronic Combat Range (ECR) that was realigned from the RF Threat Capabilities accomplishment.</p> <p>- Continue the development of an open air radio frequency beam measurement capability that was realigned from the RF Threat Capabilities accomplishment.</p> <p>- Initiate the upgrade of open air radio frequency signal density enhancement systems.</p> <p>- Complete the development of an advanced Early Warning and Acquisition radar hybrid laboratory simulator that was realigned from the RF Threat Capabilities accomplishment.</p> <p>FY 2015 Plans:</p> <p>- Complete the update to existing laboratory simulators of foreign radars.</p> <p>- Continue the upgrade of open-loop threat simulators at ECR.</p> <p>- Continue the development of an open air radio frequency beam measurement capability.</p> <p>- Continue the upgrade of open air radio frequency signal density enhancement systems.</p>				
<p>Title: REQUIREMENTS AND VALIDATION</p> <p>Articles:</p> <p>Description: Validate and track intel updates of the threat systems necessary for the operation and continuous improvement of Navy laboratories and ranges which provide engineering support, testing and analysis to the developers, integrators, testers and users of systems and technologies that counter or penetrate air defenses.</p> <p>FY 2013 Accomplishments:</p>		0.979 -	0.981 -	0.981 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
<ul style="list-style-type: none"> - Continued to provide program management, systems engineering, and requirements identification for the development of simulators and foreign material acquisition. - Continued to validate simulators and stimulators at the Navy tri-lab centers. <p>FY 2014 Plans:</p> <ul style="list-style-type: none"> - Continue to provide program management, systems engineering, and requirements identification for the development of simulators and foreign material acquisition. - Continue to validate simulators and stimulators at the Navy tri-lab centers. <p>FY 2015 Plans:</p> <ul style="list-style-type: none"> - Continue to provide program management, systems engineering, and requirements identification for the development of simulators and foreign material acquisition. - Continue to validate simulators and stimulators at the Navy tri-lab centers. 					
<p>Title: ENGAGEMENT CAPABILITIES</p> <p align="right">Articles:</p> <p>Description: Provide the test community with the modern threat engagement systems necessary for Test and Evaluation of airborne alert, Situation Awareness, targeting systems and airborne response systems.</p> <p>The Engagement Capabilities accomplishment was created to allow a more detailed tracking for some of the projects that were previously grouped under the Radio Frequency (RF) Threat Capabilities accomplishment. All projects listed as continue or complete under this accomplishment were realigned from the RF Threat Capabilities accomplishment.</p> <p>Funding increases from FY 2014 to FY 2015 due to the need for additional test capability for the Next Generation Jammer and the Joint Strike Fighter programs.</p> <p>FY 2013 Accomplishments: N/A</p> <p>FY 2014 Plans: Projects listed as Continue or Complete under this accomplishment were realigned from the Radio Frequency (RF) Threat Capabilities accomplishment.</p> <ul style="list-style-type: none"> - Continue the upgrade and integration of missile simulation models that was realigned from the RF Threat Capabilities accomplishment. 			- -	19.164 -	20.525 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
<ul style="list-style-type: none"> - Continue the development of a closed-loop threat surface to air missile system simulator that was realigned from the RF Threat Capabilities accomplishment. - Continue the conversion of a threat system that was realigned from the RF Threat Capabilities accomplishment. - Complete the development of the Long Range Threat System (LRTS) simulator at Electronic Combat Range (ECR) that was realigned from the RF Threat Capabilities accomplishment. - Complete the development of a Digital Radio Frequency Memory Jammer simulator that was realigned from the RF Threat Capabilities accomplishment. - Complete the upgrade to the J-32B Advanced Threat System at ECR that was realigned from the RF Threat Capabilities accomplishment. - Initiate the minor upgrades to open air and laboratory threat systems. <p><i>FY 2015 Plans:</i></p> <ul style="list-style-type: none"> - Continue the upgrade and integration of missile simulation models. - Continue the development of a closed-loop threat surface to air missile system simulator. - Continue the conversion of a threat system. - Continue the minor upgrades to open air and laboratory threat systems. - Complete the development of the LRTS simulator at ECR. 			
Accomplishments/Planned Programs Subtotals		15.624	30.151
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy Not Applicable.			
E. Performance Metrics Successfully achieve Initial Operational Capability of Navy Threat Simulation projects within 60 days of approved schedule and have test capabilities scheduled in support of Navy test programs within 180 days.			

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Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0604256N / Threat Simulator Development				Project (Number/Name) 0672 / Effect Nav E/W (ENEWS)			
COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
0672: Effect Nav E/W (ENEWS)	-	12.219	13.110	14.736	-	14.736	14.395	14.752	14.322	14.841	Continuing	Continuing
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
<p>The objective of the Effectiveness of Navy Electronic Warfare (EW) Systems (ENEWS) Project is the development and application of necessary simulation assets to determine the effectiveness of EW for Navy ships in simulated real-world engagement situations. The project primarily supports the introduction of modern, effective shipboard and off-board EW systems, and tactics for the Surface Navy. The heavy use of ENEWS resources by Naval Sea Systems Command, Operational Test and Evaluation (OT&E) Force, Special Operations, and other EW Research, Development, Test and Evaluation (T&E) agencies speaks to the overall importance of this project. The project provides support for EW system design, Engineering Test (ET), Development Test (DT), Operational Test (OT), and the development of utilization tactics. In the past ENEWS quick reaction capabilities have had great impact on crisis situations such as the Libyan crises, Iran threat, Persian Gulf crisis, and Operation Desert Shield/Storm. Simulation Display (SIMDIS) is an ENEWS modeling tool that was developed to support T&E. SIMDIS has been adopted by most Department of Defense (DoD) T&E and training ranges to provide visualization of T&E and training scenarios. One of the primary threats to surface ships is Anti-Ship Capable Missile systems. The ENEWS Project is unique in that it is the only project within DoD dedicated to developing and providing realistic Anti-Ship Capable Missile assets to test and evaluate the effectiveness of shipboard EW systems and tactics against these type threats. The ENEWS Project is a critical part of the Office of the Secretary of Defense Test Resource Master Plan. This plan employs many of the ENEWS assets for planning, analysis, testing, and verification of shipboard and off-board EW systems techniques and tactics. As part of its normal activities, ENEWS provides Development Test and Evaluation (DT&E), OT&E, and Follow-on Operational Test and Evaluation (FOT&E) support to the surface Navy for all ship classes. DT, OT and FOT&E support includes AN/SLQ-32 Surface Electronic Warfare Improvement Program (SEWIP), Nulka, Rapid Anti-ship Integrated Defense System, all MK245 Giant tests, advanced InfraRed (IR) decoys, decoy placement, ship IR signature and radar cross section measurement of DDG-51, LPD-17, DD-21 and PC class ships, High Power Microwave program, and other ship self-defense initiatives, including T&E of Future Naval Capability process. In addition, ENEWS assets are regularly employed to test the effectiveness of North Atlantic Treaty Organization (NATO) ships' EW systems in joint allied exercises. ENEWS assets also support Joint EW exercises that are conducted with Rim of the Pacific (RIMPAC) nations.</p>												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: CLASSIFIED PROGRAM Articles: Description: Details about this program are classified. Details about this program and any changes are classified. FY 2013 Accomplishments:									7.650	8.626	7.500	
									-	-	-	

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0604256N / Threat Simulator Development	Project (Number/Name) 0672 / Effect Nav E/W (ENEWS)		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
- Details are of a higher classification.				
FY 2014 Plans:				
- Details are of a higher classification.				
FY 2015 Plans:				
- Details are of a higher classification.				
Title: HARDWARE SIMULATION SYSTEMS		1.887	1.800	1.786
Articles:		-	-	-
Description: Maintain and perform Hardware and Software Upgrades to the inventory of ENEWS flyable and shore based Anti-Ship Capable Missile (ASCM) Electro-Optic/Infrared (EO/IR), Visible and Radio Frequency (RF) Simulators. Perform characterization of IR and RF simulators as part of periodic evaluation of simulation performance and collect performance data for comparison with previously recorded data. Development and maintenance of all simulator control panels.				
The increase between FY 2014 and FY 2015 is due to the Effectiveness of Naval EW Systems Technical Change. This funding increase supports critical simulator capability upgrades necessary to test, evaluate and demonstrate the effectiveness of Surface Electronic Warfare.				
FY 2013 Accomplishments:				
- Continued annual maintenance of ENEWS simulators to support flight/shore based tests.				
- Completed software intelligence upgrades to the FOXTROT 3 TOWSIM.				
- Completed characterization of NOVEMBER Va/Vb simulator.				
- Initiated software intelligence upgrades to the MEIR 3 and MIKE 3.				
- Initiated and completed characterization of the OMEGA simulator.				
FY 2014 Plans:				
- Continue annual maintenance of ENEWS simulators to support flight/shore based tests.				
- Complete software intelligence upgrades to the MEIR 3 and MIKE 3 simulators.				
- Initiate hardware upgrades to the SUMMIT Simulator.				
- Initiate software upgrades to the VICTOR Standard Instrumentation (SIP).				
FY 2015 Plans:				
- Continue all efforts of FY 2014 less those noted completed below.				
- Initiate hardware upgrades to the FOXTROT 3 TOWSIM.				
Title: SIMULATION VALIDATION AND REQUIREMENTS		0.904	0.845	0.649

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2013	FY 2014	FY 2015
<p align="right">Articles:</p> <p>Description: Provides for the validation of hardware simulators and digital models. Develops reports that contain detailed descriptions and parametric data of the threat simulators or digital models and compares the simulator's parametric data to the actual threats parametric data. Provide technical management functions in support of the ENEWS project; engineering and technical support requirements for the overall efforts of ASCM simulator and digital model development to meet DT/OT testing requirements, development of detailed test resource requirements and provides an interface between OPNAV N2/N6, Office of Naval Research, Naval Post Graduate School (NPS) and other ENEWS oversight activities.</p> <p>FY 2013 Accomplishments:</p> <ul style="list-style-type: none"> - Continued management of the SVWG. - Completed QUESTION and UNIFORM hardware validation reports. - Completed OMEGA and GAMMA hardware validation reports. - Deferred FOXTROT 3 TOWSIM hardware validation report. - Initiated and completed update of the FY 2013 Program Management Plan. - Initiated and completed FY 2013 quarterly reports, earned value management analysis, progress tracking and analysis. - Initiated SIGMA hardware validation report. <p>FY 2014 Plans:</p> <ul style="list-style-type: none"> - Continue participation in the SVWG. - Continue SIGMA simulator hardware validation report. - Initiate and complete update of the 2014 Program Management Plan. - Initiate and complete FY2014 monthly reports, performance based management and analysis, financial execution reporting and assessment. - Initiate OMEGA 2 and ZETA simulator hardware validation report. <p>FY 2015 Plans:</p> <ul style="list-style-type: none"> - Continue all efforts of FY 2014 less those noted completed below. - Complete SIGMA, OMEGA 2 and ZETA simulator hardware validation reports. - Initiate and complete update of the 2015 Program Management Plan. - Initiate and complete FY2015 monthly reports, performance based management and analysis, financial execution reporting and assessment. - Initiate LAMBDA simulator hardware validation report. 			-	-	-
Title: SUPPORT AND COMPUTERS SIMULATION SYSTEMS			1.778	1.839	4.801
Articles:			-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
<p>Description: Perform maintenance and intelligence upgrades to EO/IR, Digital, and RF Laboratory Simulation testing facilities and flight support equipment based on existing and emerging complex threat systems. Development of T&E scenarios and environmental modeling to support electronic support (ES) and electronic attack (EA) testing; modify ASCM Digital Models based on the latest intelligence data obtained from threat databases.</p> <p>The increase between FY 2014 and FY 2015 is due to the Effectiveness of Naval EW Systems Technical Change. This funding increase to support critical simulator capability upgrades and digital model development necessary to test, evaluate and demonstrate effectiveness of Surface Electronic Warfare.</p> <p>FY 2013 Accomplishments:</p> <ul style="list-style-type: none"> - Continued maintenance and upgrades to shore-based test facilities and mobile test vans as required to conduct testing in support of SEWIP, Nulka and multi-function EW programs. - Continued to transition environmental, threat and platform simulations from Subversion to Mercurial Distributed Version Control System. - Continued upgrades to configuration control software library as new releases became available. - Continued to develop new digital models of Anti-ship Cruise Missile (ASCM) threats as they became available. - Continued upgrades and maintenance of flight support systems as necessary to support the IR/RF ENEWS simulators. - Continued improvements and intelligence upgrades to digital models including INDIA I, II, III, LIMA I, II, NOVEMBER, OMEGA and GAMMA digital models. - Continued upgrades and user friendly enhancements to the Simulation Display (SIMDIS) toolset - Completed user friendly enhancements for the TANGO and TANGO II digital models. - Initiated user friendly enhancements for the NOVEMBER IV digital model. <p>FY 2014 Plans:</p> <ul style="list-style-type: none"> - Continue all efforts of 2013, less those noted as completed below. - Complete simulator user friendly enhancements for the NOVEMBER IV digital model. - Complete improvements and intelligence upgrades to the mmW digital models. - Initiate development of LIMA III and LIMA IV digital models <p>FY 2015 Plans:</p> <ul style="list-style-type: none"> - Continue all efforts of 2014, less those noted as completed below. - Continue development of LIMA III and LIMA IV digital models. 			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
- Initiate digital model upgrades to support Surface Electronic Warfare Improvement Program (SEWIP) Block 3 test and evaluation.			
Accomplishments/Planned Programs Subtotals		12.219	13.110
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy Not applicable.			
E. Performance Metrics Performance metrics are discussed within each project (R2a).			