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

APPROPRIATION/BUDGET ACTIVITY

1319: *Research, Development, Test & Evaluation, Navy*
BA 6: *RDT&E Management Support*

R-1 ITEM NOMENCLATURE

PE 0604256N: *Threat Simulator Development*

COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
Total Program Element	26.363	18.755	28.318	-	28.318	20.928	21.165	21.460	21.727	Continuing	Continuing
0602: <i>Eletrronics W/F Env Simulation (ECHO)</i>	12.238	7.955	15.108	-	15.108	7.386	7.396	7.390	7.533	Continuing	Continuing
0672: <i>Effect Nav E/W (ENEWS)</i>	12.532	10.800	13.210	-	13.210	13.542	13.769	14.070	14.194	Continuing	Continuing
9999: <i>Congressional Adds</i>	1.593	-	-	-	-	-	-	-	-	0.000	1.593

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 (DT&E/OT&E) 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: Advanced Anti-Radiation Guided Missile (AARGM), ALR-67 (v) 2 and (v) 3, Integrated Defensive Electronic Countermeasures (IDECM) Suite ALQ-214, AAR-47 (v) 2 and the AAR-47 (v) 3, AVR-2, Advanced 6" Expendable, Advanced Strategic Tactical Expendable (ASTE), ALQ-144A, Joint and Allied Threat Awareness System (JATAS), Strike and Assault Directed Infrared Countermeasures (DIRCM), Joint Strike Fighter, EA-18G, LR700, Low Band Transmitter, P-8A, and the Next Generation Jammer (NGJ).

B. Program Change Summary (\$ in Millions)

	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012 Base</u>	<u>FY 2012 OCO</u>	<u>FY 2012 Total</u>
Previous President's Budget	27.021	18.755	20.448	-	20.448
Current President's Budget	26.363	18.755	28.318	-	28.318
Total Adjustments	-0.658	-	7.870	-	7.870
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.343	-			
• Program Adjustments	-	-	8.499	-	8.499
• Section 219 Reprogramming	-0.315	-	-	-	-
• Rate/Misc Adjustments	-	-	-0.629	-	-0.629

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy									DATE: February 2011		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 6: RDT&E Management Support				R-1 ITEM NOMENCLATURE PE 0604256N: Threat Simulator Development				PROJECT 0602: Eletronics W/F Env Simulation (ECHO)			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0602: Eletronics W/F Env Simulation (ECHO)	12.238	7.955	15.108	-	15.108	7.386	7.396	7.390	7.533	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

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: Advanced Anti-Radiation Guided Missile ALR-67 (v) 2 and (v) 3, Integrated Defensive Electronic Countermeasures Suite ALQ-214, AAR-47 (v) 2 and the AAR-47 (v) 3, AVR-2, Advanced 6" Expendable, Advanced Strategic Tactical Expendable, ALQ-144A, Joint and Allied Threat Awareness System, Strike and Assault Directed Infrared Countermeasures, 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 2010	FY 2011	FY 2012
Title: ELECTRO-OPTICAL/INFRA-RED (EO/IR) THREAT CAPABILITIES	0.380	0.550	-
Articles:	0	0	
Description: Provide the test community with the modern threat systems necessary for T&E of airborne Electro-Optical/Infra-Red (EO/IR) passive alert systems and airborne EO/IR active response systems.			
Funding increases from FY 2010 to FY 2011 and decreases from FY 2011 to FY 2012 based on the priority of the test requirement. Funding increases in FY 2011 due to the effort required to complete the Advanced Imaging Infra-Red (IIR) Seeker project.			

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0604256N: Threat Simulator Development	PROJECT 0602: Eletronics W/F Env Simulation (ECHO)		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011	FY 2012
FY 2010 Accomplishments: - Completed the development of the Reactive Plume Simulator (RPS). - Continue the development of IIR Seeker. FY 2011 Plans: - Complete the development of IIR Seeker.				
Title: RADIO FREQUENCY (RF) THREAT CAPABILITIES Articles: Description: Provide the test community with the modern threat systems necessary for T&E of airborne Radio Frequency (RF) alert, Situation Awareness, targeting systems and airborne RF response systems. Funding decreases from FY 2010 to FY 2011 due to project completions and phasing of continuing project to align with program schedules. These systems are required to test the Joint Strike Fighter, EA-18G, Next Generation Jammer, and other Navy platforms. Funding increases from FY 2011 to FY 2012 due to the need to address additional double digit threat systems at the Electronic Combat Range (ECR) by initiating the development of the long range threat systems simulator at ECR. FY 2010 Accomplishments: - Completed the upgrade of the existing open air range threat simulator to provide a new generation, high fidelity double digit threat I-34 (Advanced Threat Simulator). - Completed the development of a millimeter wave stimulation capability. - Completed the procurement and integration of an advanced threat system through Foreign Materials Acquisition channels. - Completed the upgrade of the I-32 open air simulator by replacing the transmitter. - Completed intel updates to missile, radar, and gun simulations. - Initiated the development of the long range threat systems in laboratories. - Initiated the upgrade to the J-32B Advanced Threat System (ATS) at ECR. - Initiated the development of an advanced Early Warning and Acquisition (EW/ACQ) radar hybrid laboratory simulator. FY 2011 Plans: - Continue the development of the long range threat systems in laboratories. - Continue the upgrade to the J-32B ATS at ECR. - Continue the development of an advanced EW/ACQ radar hybrid laboratory simulator. FY 2012 Plans: - Complete the upgrade of an ATS at ECR.		10.364 0	6.426 0	14.129 0

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0604256N: <i>Threat Simulator Development</i>	PROJECT 0602: <i>Eletronics W/F Env Simulation (ECHO)</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011
- Continue the development of the long range threat systems in laboratories. - Continue the development of an advanced EW/ACQ radar hybrid laboratory simulator. - Initiate the upgrade of advanced manpad system simulators. - Initiate the development of the long range threat systems at ECR. - Initiate the update to existing laboratory simulators of foreign radars. - Initiate and complete the development of a Digital Radio Frequency Memory jammer simulator.			
Title: REQUIREMENTS AND VALIDATION Articles: 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. Funding decreases from FY 2010 to FY 2011 based on the priority of the test requirements. Requirements assimilation and project management activities will be reduced to correspond with fewer executing projects. FY 2010 Accomplishments: - 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. FY 2011 Plans: - 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. FY 2012 Plans: - 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.		1.494 0	0.979 0
Accomplishments/Planned Programs Subtotals		12.238	15.108

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0604256N: <i>Threat Simulator Development</i>	PROJECT 0602: <i>Eletronics W/F Env Simulation (ECHO)</i>
C. Other Program Funding Summary (\$ in Millions) N/A		
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: Research, Development, Test & Evaluation, Navy BA 6: RDT&E Management Support				R-1 ITEM NOMENCLATURE PE 0604256N: Threat Simulator Development				PROJECT 0672: Effect Nav E/W (ENEWS)			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
0672: Effect Nav E/W (ENEWS)	12.532	10.800	13.210	-	13.210	13.542	13.769	14.070	14.194	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification											
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 offboard 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. Its quick reaction capabilities have had great impact on crisis situations such as the Lebanon and Libyan crises, Iran Harpoon threat, Persian Gulf crisis, and Operation Desert Shield/Storm. Simulation Display is another ENEWS modeling tool that was developed to support T&E. The display has been adopted by most Department of Defense (DoD) T&E and training ranges to provide visualization of T&E and training scenarios. The primary threat 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 offboard 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), R17.OX 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 ships' EW systems in joint allied exercises. ENEWS assets also support Joint EW exercises that are conducted with Rim of the Pacific (RIMPAC) nations.											
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2010	FY 2011	FY 2012	
Title: CLASSIFIED PROGRAM								7.937	5.701	8.418	
								0	0	0	
Description: Details about this program are classified.											
Details about this program and any changes are classified.											
FY 2010 Accomplishments:											

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0604256N: <i>Threat Simulator Development</i>	PROJECT 0672: <i>Effect Nav E/W (ENEWS)</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011
- Details are of a higher classification. FY 2011 Plans: - Details are of a higher classification. FY 2012 Plans: - Details are of a higher classification.			
Title: HARDWARE SIMULATION SYSTEMS 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, 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. FY 2010 Accomplishments: - Continued annual maintenance on ENEWS simulators to support flight/shore based tests. - Initiated intelligence upgrades to MEIR 2-2, MEIR 3, SUMMIT simulators and the MIKE 2 & 3, and VICTOR 1 Standard Instrumentation Pods (SIPs). - Initiated software intelligence upgrades to VICTOR 1 SIP and SUMMIT simulators. - Initiated and completed characterization of the TANGO simulator modified for the NRL Learjet Electronics Pod (LEP). - Initiated the transition of the TANGO simulator into the NRL LEP. - Initiated and completed the INDIA I control panel. FY 2011 Plans: - Continue annual maintenance on ENEWS simulators to support flight/shore based tests. - Continue intelligence upgrades to SUMMIT simulators and VICTOR 1 SIP. - Continue software intelligence upgrades to VICTOR 1 SIP and SUMMIT simulators. - Complete intelligence upgrades to MEIR 2-2, MEIR 3 simulators the MIKE 2 & 3 SIPs. - Complete transition of the TANGO simulator into the NRL LEP. - Initiate software intelligence upgrades to the towed FOXTROT 3 simulator. FY 2012 Plans: - Continue annual maintenance on ENEWS simulators to support flight/shore based tests. - Continue software intelligence upgrades to the towed FOXTROT 3 simulator. - Complete intelligence upgrades to the VICTOR 1 SIP and SUMMIT simulators.		1.636 Articles: 0	1.738 0
		1.695 0	

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011
- Complete software intelligence upgrades to the VICTOR 1 SIP and SUMMIT simulators. - Initiate characterization of NOVEMBER Va/Vb simulators. - Initiate and complete characterization of GAMMA simulator.			
Title: SIMULATION VALIDATION AND REQUIREMENTS 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 N-912, N-433, Office of Naval Research and other ENEWS oversight activities. FY 2010 Accomplishments: - Continued management of the Simulator Validation Working Group SVWG. - Continued INDIA I, PAPA and KILO hardware validation reports. - Initiated and completed MEIR 3 hardware validation report. - Initiated and completed update of FY 2010 Program Management Plan. - Initiated and completed FY 2010 quarterly reports, earned value management analysis, progress tracking and analysis. FY 2011 Plans: - Continue all efforts of FY 2010, less those noted as completed above. - Continued management of the Simulator Validation Working Group SVWG. - Complete INDIA I, PAPA, and KILO hardware validation reports. - Initiate QUESTION and UNIFORM hardware validation reports. - Initiate and complete update of FY 2011 Program Management Plan. - Initiate and complete FY 2011 quarterly reports, earned value management analysis, progress tracking and analysis. FY 2012 Plans: - Continued management of the Simulator Validation Working Group SVWG. - Continue QUESTION and UNIFORM hardware validation reports. - Initiate FOXTROT 3 TOWSIM, OMEGA and GAMMA hardware validation reports - Initiate and complete update of the FY 2012 Program Management Plan.		0.946 0	0.985 0
		0	0

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Exhibit R-2A, RDT&E Project Justification: PB 2012 Navy		DATE: February 2011	
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2010	FY 2011
- Initiate and complete FY 2012 quarterly reports, earned value management analysis, progress tracking and analysis. Title: SUPPORT AND COMPUTERS SIMULATION SYSTEMS Articles: 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. FY 2010 Accomplishments: - Continued maintenance and upgrades to shore-based test facilities and mobile test vans as required to conduct tests in support of SEWIP, NULKA and multi function EW programs. - Continued transitioning NRL Codes 5750 and 5770's environmental, threat and platform simulations to the subversion software configuration management program. Upgraded subversion 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 ALPHA I, INDIA I, II, III, LIMA, NOVEMBER III, QUEBEC, TANGO, and TANGO II. In all, a total of 9 digital models. - Initiated improvements and intelligence upgrades to the COHERENT and foreign anti-ship missile (FASM) digital models. - Initiated intelligence updates and simulation user friendly enhancements for the Long Range High Altitude (LRHA) digital model. FY 2011 Plans: - Continue all efforts of FY2010. - Initiate improvements and intelligence upgrades to the Millimeter Wave (mmW) digital models. FY 2012 Plans: - Continue all efforts of FY2011, less those noted as complete below. - Complete improvements and intelligence upgrades to the COHERENT and FASM digital models. - Complete the simulation user friendly enhancements for the LRHA digital model. - Initiate simulation user friendly enhancements for the TANGO and TANGO II digital models.		2.013 0	2.376 0
Accomplishments/Planned Programs Subtotals		12.532	10.800
			2.110 0

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C. Other Program Funding Summary (\$ in Millions) N/A		
D. Acquisition Strategy Not applicable.		
E. Performance Metrics Performance metrics are discussed within each project (R2a).		

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>				R-1 ITEM NOMENCLATURE PE 0604256N: <i>Threat Simulator Development</i>				PROJECT 9999: <i>Congressional Adds</i>			
COST (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
9999: <i>Congressional Adds</i>	1.593	-	-	-	-	-	-	-	-	0.000	1.593
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 2010	FY 2011
<i>Congressional Add:</i> Navy Advanced Threat Simulator	1.593	-
<i>FY 2010 Accomplishments:</i> This effort supported the development of a high priority threat simulator.		
Congressional Adds Subtotals	1.593	-

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

D. Acquisition Strategy
Not required for Congressional Adds

E. Performance Metrics
Not required for Congressional Adds