

UNCLASSIFIED

FY 2010 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET
Exhibit R-2

DATE: May 2009

BUDGET ACTIVITY: 06
PROGRAM ELEMENT: 0604256N
PROGRAM ELEMENT TITLE: THREAT SIMULATOR DEVELOPMENT

COST: (Dollars in Millions)

Project Number & Title	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate
Total PE	23.526	24.714	25.534
0602 ELETRONICS W/F ENV SIMULATION (ECHO)	11.562	12.029	12.531
0672 EFFECTIVENESS OF NAVY ELECTRONIC WARFARE SYSEMS (ENEWS)	11.964	12.685	13.003

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 Tri-service EW systems and defensive tactics. These projects develop former Soviet and Free-World Anti-Air and Anti-Ship weapon system simulators in accordance with the Services' requirements.

The 0602 Project, Electronic Warfare Environment Simulation (ECHO), 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, EA-6B Improved Capability Program (ICAP III), LR700 and the Low Band Transmitter.

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The 0672 Project, Effectiveness of Navy EW Systems (ENEWS), is a Department of Navy (DON) unique project that supports Test and Evaluation (T&E) of Ships EW efforts. ENEWS provides T&E for surface and subsurface shipboard systems and tactics in digitally modeled battle scenarios at the component, fully integrated single ship, multi-ship and full-up multi-platform battle group levels. ENEWS also provides a secure anechoic closed loop T&E facility specifically designed to test shipboard systems at the stand alone subsystem or fully integrated systems level. The last and largest portion of this project addresses the flyable Infrared and Radio Frequency simulators flown on specially configured NP-3D aircraft to provide at-sea open air T&E for systems and tactics. All ENEWS assets are developed, operated and maintained by the Naval Research Laboratory, Washington, DC.

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B. PROGRAM CHANGE SUMMARY:

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
President's Budget 2009	23.505	24.959	25.831
Congressional Program Reductions	0.000	-0.068	0.000
Program Adjustments	0.000	0.000	-0.376
Rate/Misc Adjustments	0.000	-0.177	0.079
SBIR/STTR Transfer	0.021	0.000	0.000
President's Budget 2010	23.526	24.714	25.534

PROGRAM CHANGE SUMMARY EXPLANATION:

Technical: Not applicable.

Schedule: Not applicable.

C. OTHER PROGRAM FUNDING SUMMARY:

Not applicable.

D. ACQUISITION STRATEGY:

Not applicable.

E. PERFORMANCE METRICS:

Performance metrics are discussed within each project (R2a).

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DATE: May 2009

BUDGET ACTIVITY: 06
PROGRAM ELEMENT: 0604256N PROGRAM ELEMENT TITLE: THREAT SIMULATOR DEVELOPMENT
PROJECT NUMBER: 0602 PROJECT TITLE: ELETRONICS W/F ENV SIMULATION (ECHO)

COST: (Dollars in Millions)

Project Number & Title	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate
0602 ELETRONICS W/F ENV SIMULATION (ECHO)	11.562	12.029	12.531

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 (ECHO) project is unique because it is the only program within the Department of Defense (DoD) which develops and provides Naval anti-air warfare threat assets for Testing and Evaluation (T&E), and is a critical part of the Office of the Secretary of Defense (OSD) Test Resource Master Plan. The OSD Master Plan employs many ECHO project resources for planning, analysis, testing, and verification of airborne EW equipment.

This project 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, EA-6B Improved Capability Program (ICAP III), LR700 and the Low Band Transmitter (LBT).

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.

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 PROJECT NUMBER: 0602 PROJECT TITLE: ELETRONICS W/F ENV SIMULATION (ECHO)

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2008	FY 2009	FY 2010
ELECTRO-OPTICAL/INFRA-RED (EO/IR) THREAT CAPABILITIES	3.250	2.395	0.950

Provide the test community with the modern threat systems necessary for T&E of airborne EO/IR passive alert systems and airborne EO/IR active response systems. Develop Many versus Many (MvM) Infrared Countermeasure Assessment System (ICAS) which provides spectral, power, and temporal systems to test and evaluate Missile Warning Systems (MWS) and measure the end-game effectiveness of Infrared (IR) expendables and Directed Infrared Countermeasures (DIRCM) systems by simulating high speed IR missile engagements against airborne targets. Combine the capability of the existing IR seeker vans to enable testing of up to 12 seekers simultaneously to expedite data collection against tier 1 IR Surface to Air Missiles (SAMs). Develop the Reactive Plume Simulator (RPS) by upgrading the IR Sensor Stimulator (IRSS) with the capability for IR plume simulators to react to threat missile seeker guidance commands; to enable the plume stimulator to receive immediate feedback from the instrumentation observing the countermeasure's effectiveness; and to relay that "response" to the controlling software that generates the plume signature. Develop Advanced Imaging Infra-Red (IIR) Seeker which integrates prelaunch tracking and simulated fly-out capability with missile plume simulation system to provide open air test capability for airborne passive and active EO/IR systems.

Funding decreases from FY 2008 to FY 2009, and FY 2010 based on the priority of the test shortfall. Funding for the EO/IR effort decreases due to the completion of the MvM portions of the ICAS and Reactive Plume Simulator (RPS) in FY 2009. These systems will support testing for the Joint and Allied Threat Awareness System (JATAS), Assault DIRCM and other Navy programs.

	FY 2008	FY 2009	FY 2010
RADIO FREQUENCY (RF) THREAT CAPABILITIES	6.429	7.570	9.685

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. Upgrade the existing open air range threat simulator to provide a new generation, high fidelity double digit threat I-34 (Advanced Threat Simulator).

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PROGRAM ELEMENT: 0604256N

PROGRAM ELEMENT TITLE: THREAT SIMULATOR DEVELOPMENT

PROJECT NUMBER: 0602

PROJECT TITLE: ELETRONICS W/F ENV SIMULATION (ECHO)

Procure and integrate an advanced threat system through Foreign Materials Acquisition channels. Continue intel updates to missile, radar, and gun simulations. Upgrade the I-32 open air simulator by replacing the aging transmitter; provide the I-32 simulator at the Electronic Combat Range (ECR) with a second frequency for multiple-missile launch, side lobe canceling, and improved Electronic Counter-Counter Measure (ECCM) capabilities. Develop long range threat systems to simulate double digit Surface to Air Missiles, using recent intelligence and available exploitation data gathered by the Missile and Space Intelligence Center (MSIC). Develop multi-band RF threat simulators to stimulate airborne systems. Upgrade the J-32B Advanced Threat System at ECR to replicate the newer variant of the threat system. Develop an Advanced Early Warning and Acquisition (EW/ACQ) radar hybrid laboratory simulator that operates with the I-34 laboratory simulators.

Funding increases from FY 2008 to FY 2009 and FY 2010 based on the priority of the test shortfall. Funding for the RF effort increases from FY 2008 to FY 2009 and FY 2010 due to the need to address double digit threat systems (I-32 Transmitter, I-34, and J-32B), and to start development of another high priority long range threat system, and an advanced EW/ACQ system. These systems are required to test the Joint Strike Fighter, EA-18G, and other Navy platforms.

	FY 2008	FY 2009	FY 2010
REQUIREMENTS AND VALIDATION	1.883	2.064	1.896

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. Provide program management and systems engineering support for the development of simulators and the acquisition of foreign material to accurately reflect current and future threat scenarios.

Funding increases from FY 2008 to FY 2009 are due to the fact that funds get aligned to different efforts based on the priority of the test shortfall. Funding for the Requirements and Validation effort increases from FY 2008 to FY 2009 due to the need to validate the open air range double digit threat system I-34 and several newly integrated Threat Model and Analysis Program (TMAP) missile fly-out models. These systems are required to test the Joint Strike Fighter, EA-18G, and other Navy platforms.

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PROGRAM ELEMENT: 0604256N

PROJECT NUMBER: 0602

PROGRAM ELEMENT TITLE: THREAT SIMULATOR DEVELOPMENT

PROJECT TITLE: ELETRONICS W/F ENV SIMULATION (ECHO)

C. OTHER PROGRAM FUNDING SUMMARY - NAVY RELATED RDT&E:

Not applicable.

OTHER PROGRAM FUNDING SUMMARY - NON-NAVY RELATED RDT&E:

Not applicable.

D. ACQUISITION STRATEGY:

Not applicable.

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PROGRAM ELEMENT: 0604256N PROGRAM ELEMENT TITLE: THREAT SIMULATOR DEVELOPMENT
PROJECT NUMBER: 0672 PROJECT TITLE: EFFECTIVENESS OF NAVY ELECTRONIC WARFARE SYSEMS (ENEWS)

Project Number & Title	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate
0672 EFFECTIVENESS OF NAVY ELECTRONIC WARFARE SYSEMS (ENEWS)	11.964	12.685	13.003

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

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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 PROGRAM:

	FY 2008	FY 2009	FY 2010
CLASSIFIED PROGRAM	7.592	7.774	8.200

Details about this program are classified.

FY 2008 Accomplishments:

- Details are of a higher classification.

FY 2009 Plans:

- Details are of a higher classification.

FY 2010 Plans:

- Details are of a higher classification.

	FY 2008	FY 2009	FY 2010
HARDWARE SIMULATION SYSTEMS	1.586	1.822	1.775

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

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performance data for comparison with previously recorded data. Development and maintenance of all simulator control panels.

Two new simulators are planned to be introduced into the ENEWS inventory in FY 2010; one of these simulators is being produced under contract which is reflected in the increase in the FY 2009 budget.

FY 2008 Accomplishments:

- Continued annual maintenance on ENEWS simulators to support flight/shore based tests.
- Continued annual maintenance on ENEWS simulators to support flight/shore based tests.
- Completed hardware intelligence upgrades to FOXTROT 3 and MIKE 4 Standard Instrumentation Pods (SIPs).
- Completed software intelligence upgrades to FOXTROT 3 and MIKE 4 (SIPs).
- Initiated intelligence upgrades to FOXTROT 2 and VICTOR 2 SIPs.
- Initiated software intelligence upgrades to FOXTROT 2 and VICTOR 2 SIPs.
- Initiated and completed characterization of KILO, QUEBEC AND TANGO.
- Initiated and completed transition of the ROMEO simulator into the Naval Research Laboratory Learjet Electronics Pod (NRL LEP).
- Initiated QUEBEC control panel.

FY 2009 Plans:

- Continue all efforts of FY 2008, less those noted as completed above.
- Complete intelligence upgrades to FOXTROT 2 and VICTOR 2 SIPs.
- Complete software intelligence upgrades to FOXTROT 2 and VICTOR 2 SIPs.
- Complete QUEBEC control panel.
- Initiate and complete characterization of INDIA III and PAPA.
- Initiate and complete transition of the INDIA III into the NRL LEP.
- Initiate and complete VICTOR 1 SIP control panel.

FY 2010 Plans:

- Continue all efforts of FY 2009, less those noted as completed above.
- Initiate intelligence upgrades to MEIR 2-2, MEIR 3, SUMMIT simulators and the MIKE 2 & 3, and VICTOR 1 SIPs.

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PROJECT TITLE: EFFECTIVENESS OF NAVY ELECTRONIC WARFARE SYSEMS (ENEWS)

- Initiate software intelligence upgrades to VICTOR 1 SIP and SUMMIT simulators.
- Initiate and complete characterization of the TANGO simulator modified for the NRL LEP.
- Initiate transition of the TANGO simulator into the NRL LEP
- Initiate and complete the INDIA I control panel.

	FY 2008	FY 2009	FY 2010
SIMULATION VALIDATION AND REQUIREMENTS	0.849	1.047	0.946

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.

The increase between FY 2008 and FY 2009 is due to the completion and presentation to the Simulator Validation Working Group (SVWG) of two hardware validation reports in FY 2009.

FY 2008 Accomplishments:

- Continued TANGO and NOVEMBER Vb hardware validation reports.
- Continued management of the SVWG.
- Completed NOVEMBER Va validation report and submit report to the SVWG.
- Initiated INDIA I, PAPA and KILO hardware validation reports.
- Initiated and completed update of FY 2008 Program Management Plan.
- Initiated and completed FY 2008 quarterly reports, earned value management analysis, progress tracking and analysis.

FY 2009 Plans:

- Continue all efforts of FY 2008, less those noted as completed above.

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PROJECT NUMBER: 0672

PROGRAM ELEMENT TITLE: THREAT SIMULATOR DEVELOPMENT

PROJECT TITLE: EFFECTIVENESS OF NAVY ELECTRONIC WARFARE SYSEMS (ENEWS)

- Complete NOVEMBER Vb and TANGO hardware validation reports and submit to the SVWG.
- Initiate and complete update of FY 2009 Program Management Plan.
- Initiate and complete FY 2009 quarterly reports, earned value management analysis, progress tracking and analysis.

FY 2010 Plans:

- Continue all efforts of FY 2009, less those noted as completed above.
- Initiate MEIR 3 hardware validation report.
- Initiate and complete update of FY 2010 Program Management Plan.
- Initiate and complete FY 2010 quarterly reports, earned value management analysis, progress tracking and analysis.

	FY 2008	FY 2009	FY 2010
SUPPORT AND COMPUTERS SIMULATION SYSTEMS	1.937	2.042	2.082

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 test and evaluation (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 2008 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 Electronic Warfare (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 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.

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- 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.
- Continued upgrade to cruise missile simulation suite to improve capability to model advanced threats by adding graphical user interface (GUI).

FY 2009 Plans:

- Continue all efforts of FY 2008.
- Complete upgrade to cruise missile simulation suite to improve capability to model advanced threats by adding GUI.

FY 2010 Plans:

- Continue all efforts of FY 2009, less those noted as completed above.
- Initiate improvements and intelligence upgrades to the COHERENT and FASM digital models.
- Initiate intelligence updates and simulation productization for the Long Range High Altitude (LRHA) digital model.

C. OTHER PROGRAM FUNDING SUMMARY - NAVY RELATED RDT&E:

OTHER PROGRAM FUNDING SUMMARY - NON-NAVY RELATED RDT&E:

D. ACQUISITION STRATEGY:

Not applicable.