

UNCLASSIFIED

EXHIBIT R-2, FY 2000 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET

DATE: February 1999

BUDGET ACTIVITY: 6

PROGRAM ELEMENT: 0604256N

PROGRAM ELEMENT TITLE: Threat Simulator Development

(U) COST: (Dollars in Thousands)

<u>Project Number & Title</u>	<u>FY 1998 Budget</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>	<u>Total Program</u>
E0602 Electronic Warfare Environment Simulation (ECHO)	4,258	14,358	16,176	13,687	18,359	18,670	16,994	17,912	Cont.	Cont.
E0672 Effectiveness of Navy Electronic Warfare Systems (ENEWS)	7,996	9,951	13,468	11,120	13,254	13,540	13,733	14,319	Cont.	Cont.
TOTAL	12,254	24,309	29,644	24,807	31,613	32,210	30,727	32,231	Cont.	Cont.

Quantity of RDT&E Articles: N/A

(U) 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-Services EW systems and defensive tactics. These projects develop former Soviet and Free-World Anti-Air and Anti-Ship weapon systems simulators in accordance with the Services requirements.

(U) The E0602 Project, EW Environment Simulation (ECHO) provides airborne system component level Test and Evaluation (T&E) at the Electronic Combat Simulation and Evaluation Laboratory (ECSEL), Naval Air Warfare Center Weapons Division (NAVAIRWARCENWPNDIV), Point Mugu, CA. ECHO also provides a secure anechoic closed loop T&E facility for fully integrated, aircraft-installed systems testing at the EW Integrated Systems Test Laboratory (EWISTL) at the Naval Air Warfare Center Aircraft Division (NAVAIRWARCENACDIV), Patuxent River, MD. Included in this Project is the T&E of airborne systems and tactics in flight, against the open air range at the Electronic Combat Range (ECR) complex located at the Naval Air Warfare Center Weapons Division (NAVAIRWARCENWPNDIV), China Lake, CA.

(U) The E0672 Project, Effectiveness of Navy EW Systems (ENEWS), is a Department of the Navy (DON) unique project that supports testing of Ship Self Defense efforts. ENEWS provides T&E of 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 component 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 of systems and tactics. All ENEWS assets are developed and maintained by the Naval Research Laboratory (NRL), Washington, DC.

(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RDT&E MANAGEMENT SUPPORT because it supports the operations and installations required for general research, and development use.

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EXHIBIT R-2a, FY 2000 RDT&E,N BUDGET PROJECT JUSTIFICATION SHEET

DATE: February 1999

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PROGRAM ELEMENT: 0604256N

PROJECT NUMBER: E0602

PROGRAM ELEMENT TITLE: Threat Simulator Development

PROJECT TITLE: ECHO

(U) COST: (Dollars in Thousands)

<u>Project Number & Title</u>	<u>FY 1998 Budget</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>	<u>Total Program</u>
E0602 Electronic Warfare Environment Simulation (ECHO)	4,258	14,358	16,176	13,687	18,359	18,670	16,994	17,912	Cont.	Cont.
TOTAL	4,258	14,358	16,176	13,687	18,359	18,670	16,994	17,912	Cont.	Cont.

Quantity of RDT&E Articles: N/A

(U) 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 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.

(U) The EW Environment Simulation (ECHO) project is unique in that 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.

(U) This project directly supports the T&E requirements of the following programs: High Speed Anti-Radiation Missile, ALR-67(V)2,3,4, ALQ-126B, AN/ALQ-156, EW Advanced Technology (EWAT), Integrated Defensive Electronic Countermeasures (IDECM) (including the Radio Frequency Countermeasures (RFCM), Common Missile Warning System (CMWS), and Advanced Strategic Tactical Expendables (ASTE) subsystem T&E milestones), AVR-2, AAR-47, ALE-50, as well as other Tri-Service EW systems with initial operational capability dates in the 1990's and early 2000's.

(U) 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: NAVAIRWARCENWPNDIV, China Lake and Point Mugu in CA, and NAVAIRWARCENACDIV, Patuxent River, MD.

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PROGRAM ELEMENT: 0604256N

PROJECT NUMBER: E0602

PROGRAM ELEMENT TITLE: Threat Simulator Development

PROJECT TITLE: ECHO

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 1998 ACCOMPLISHMENTS:

- (U) (\$50) Continued Validation and Updates - SIMEVAL.
- (U) (\$145) Continued Validation and Updates - Radar Updates.
- (U) (\$200) Continued Validation and Updates - Validation.
- (U) (\$946) Continued ECHO technical and engineering support.
- (U) (\$220) Continued ECHO System Engineering activity.
- (U) (\$243) Continued ECHO Test Requirements activity.
- (U) (\$1,719) Completed Weapon Systems - JBATS.
- (U) (\$125) Continued Ultra Violet (UV) Stimulator.
- (U) (\$610) Continued I-23 Advanced Capability.

2. FY 1999 PLAN:

- (U) (\$50) Continue Validation and Updates - SIMEVAL.
- (U) (\$727) Continue Validation and Updates - Radar Updates.
- (U) (\$450) Continue Validation and Updates - Missile/Gun Updates.
- (U) (\$618) Continue Validation and Updates - Validation.
- (U) (\$1757) Continue ECHO technical and engineering support.
- (U) (\$484) Continue ECHO System Engineering activity.
- (U) (\$1,319) Continue ECHO Test Requirements activity.
- (U) (\$125) Complete UV Stimulator.
- (U) (\$1,419) Complete I-23 Advanced Capability.
- (U) (\$1,272) Initiate/Complete Blue Army Threat Seeker for Missile on Mountain (MOM).
- (U) (\$1,060) Initiate/Complete Infrared (IR)/UV seeker.
- (U) (\$530) Initiate/Complete I-23 additional seeker integration.
- (U) (\$1,272) Initiate/Complete SA-XX seeker for MOM.
- (U) (\$2,120) Initiate/Complete JBATS Enhanced Capabilities.
- (U) (\$900) Initiate/Complete Threat Support System.
- (U) (\$255) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.

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PROGRAM ELEMENT TITLE: Threat Simulator Development

PROJECT TITLE: ECHO

3. FY 2000 PLAN:

- (U) (\$530) Initiate/Complete Infrared/Ultra Violet (IR/UV) Mobile.
- (U) (\$300) Initiate/Complete Ground Truth Sensor.
- (U) (\$2,000) Initiate IR Surface-to-Air Missiles (SAMs) Rate Table.
- (U) (\$1,500) Initiate SUTLER HITCH.
- (U) (\$1,250) Initiate/Complete Infrared Seeker Evaluation Van/Airborne Turret Infrared Measurement System (IRSEV/ATIMS).
- (U) (\$2,918) Initiate RADAR Signal Density Environment (RSDE) Mobile.
- (U) (\$1,000) Initiate I-30 Gray.
- (U) (\$1,500) Initiate I-23 MOBCAP Upgrades
- (U) (\$2,078) Initiate IR/UV/RF Integration.
- (U) (\$100) Continue Validation and Updates - SIMEVAL.
- (U) (\$150) Continue Validation and Updates - Radar and Weapon Simulator Updates.
- (U) (\$400) Continue Validation and Updates - Validation.
- (U) (\$1,200) Continue ECHO technical and engineering support.
- (U) (\$150) Continue ECHO System Engineering activity.
- (U) (\$1,100) Continue ECHO Test Requirements activity.

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PROJECT TITLE: ECHO

(U) B. PROGRAM CHANGE SUMMARY

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
(U) FY 1999 President's Budget:	4,385	14,403	17,869
(U) Appropriated Value	4,519	14,403	
(U) Adjustments from PRESBUDG:	-127	-45	-1,693
(U) FY 2000 President's Budget Submit:	4,258	14,358	16,176

CHANGE SUMMARY EXPLANATION:

(U) Funding: The FY 1998 net decrease of -\$127 thousand reflects a Small Business Innovative Research transfer and minor Below Threshold Reprogramming.

The FY 1999 net decrease of -\$45 thousand reflects OSD PBD Adjustments.

The FY 2000 net decrease of -\$1,693 thousand reflects an undistributed reduction of -\$1,110 thousand, -\$161 thousand for the Acquisition Center of Excellence, -\$175 thousand for Full Institutional Funding, -\$1 thousand for NADEP rate adjustments and -\$246 thousand for OSD PBD adjustments.

(U) Schedule: Due to the adjustments in FY 1998, the implementation of the EA-6B ICAP III Test Resource Requirement planning was delayed by 6 months. Due to the adjustments in FY 1999 the EA-6B I CAP III test resource requirement documentation will be delayed 1 month. Due to the adjustment in FY 2000, the development of the second UV/IR Array will be delayed one year to FY 2001.

(U) Technical: Not applicable

(U) C. OTHER PROGRAM FUNDING SUMMARY: Not applicable

Related RDT&E: Not applicable

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PROJECT NUMBER: E0602

PROGRAM ELEMENT TITLE: Threat Simulator Development

PROJECT TITLE: ECHO

(U) C. ACQUISITION STRATEGY: The Electronic Warfare Threat Simulator Development program is a Non-ACAT Program with no specific acquisition strategies. The Electronic Warfare Environment Simulation Project, under the Threat Simulator Development Program, is unique in that it is the only program within the Department of Defense dedicated solely to developing and providing Naval threat assets for test and evaluation and is a critical part of the Under Secretary of Defense for Acquisition (USD(A)) annual Electronic Warfare Plan. This plan employs many of the Electronic Warfare Simulation Development project resources for the planning, analysis, testing, and verification of airborne EW equipment. To preclude unwarranted intra-Service and inter-Service duplication, T&E resource requirements are coordinated through the OSD CROSSBOW Committee and the Navy Tri-Center complex for mutual support, cost reduction, and increased test effectiveness. The Navy's Electronic Warfare Test and Evaluation Resource Investment Strategy emphasizes a coordinated analysis and prioritization of Navy EW T&E requirements and implementation of disciplined design-to-cost techniques

(U) D. SCHEDULE PROFILE: Not applicable

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EXHIBIT R-3, FY 2000 RDT&E,N COST ANALYSIS

DATE: February 1999

BUDGET ACTIVITY: 6

PROGRAM ELEMENT: 0604256N

PROJECT NUMBER:

E0602

PROJECT TITLE:

ECHO

<u>Cost Categories:</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior Yrs Cost</u>	<u>FY 1999 Cost</u>	<u>FY 1999 Award Date</u>	<u>FY 2000 Cost</u>	<u>FY 2000 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
JBATS IH (HDW/SW Dev, Sys Integ)	C-CPFF	EWA/NSMA, China Lake, CA	2,558	500					3,058	3,058
ICAP III, TADIRCM, JETS (Rqmts)	C-CPFF	EWA/NSMA, China Lake, CA		1,000	Mar-99	1,000	Mar-00	1,000	3,000	3,000
I-23 (HDW/SW Dev, Sys Integ)	C-CPIF	CTA, China Lake, CA	2,143	1,000	Jul-99	1,000	Jul-00		4,143	4,143
IR SAMs RT(HDW/SW Dev, Sys Integ)	C-CPFF	GTRI/NSMA, Atlanta, GA				1,500	Mar-00	800	2,300	2,300
RSDE MOB (HDW/SW Dev. Sys Integ)	C-CPAF	RPI, China Lake, CA				2,500	Jan-00	1,400	3,900	3,900
Award Fee						75		42	117	117
IR TGT (HDW/SW Dev, Sys Integ)	C-CPFF	TBD						4,700	4,700	4,700
HDW/SW Dev, Systems Engineering	WX	NAWC-WD, China Lake, CA	36,604	5,970		6,174		CONT	CONT	
Miscellaneous	Various		13,440	5,618		3,912		CONT	CONT	
Subtotal Product Development			54,745	14,088		16,161		CONT	CONT	

Remarks: Award fee totals 3% of contract.

Not Applicable

Subtotal Support

0 0 0 0 0

Remarks

Not Applicable

Subtotal Test & Evaluation

0 0 0 0 0

Remarks:

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EXHIBIT R-3, FY 2000 RDT&E,N COST ANALYSIS

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PROJECT TITLE:

ECHO

<u>Cost Categories:</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior Yrs Cost</u>	<u>FY 1999 Cost</u>	<u>FY 1999 Award Date</u>	<u>FY 2000 Cost</u>	<u>FY 2000 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
Travel		WX NADEP, Jax, FL	43	15		15		CONT	CONT	
Subtotal Management			43	15		15		CONT	CONT	
SBIR Assessment				255						
Remarks										
Total Cost			\$54,788	\$14,358		\$16,176		CONT	CONT	

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PROGRAM ELEMENT: 0604256N

PROJECT NUMBER: E0672

PROGRAM ELEMENT TITLE: Threat Simulator Development

PROJECT TITLE: ENEWS

(U) COST: (Dollars in Thousands)

<u>Project Number & Title</u>	<u>FY 1998 Budget</u>	<u>FY 1999 Budget</u>	<u>FY 2000 Estimate</u>	<u>FY 2001 Estimate</u>	<u>FY 2002 Estimate</u>	<u>FY 2003 Estimate</u>	<u>FY 2004 Estimate</u>	<u>FY 2005 Estimate</u>	<u>To Complete</u>	<u>Total Program</u>
E0672 Effectiveness of Navy Electronic Warfare Systems (ENEWS)	7,996	9,951	13,468	11,120	13,254	13,540	13,733	14,319		
TOTAL	7,996	9,951	13,468	11,120	13,254	13,540	13,733	14,319	Cont.	Cont.

Quantity of RDT&E Articles: N/A

A.(U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The objective of the Effectiveness of Navy EW Systems (ENEWS) project is the development and application of necessary simulation assets to determine the effectiveness of EW in real-world engagement situations and primarily supports the introduction of modern, effective shipboard EW systems, and tactics for the surface Navy. The heavy use of ENEWS resources by NAVSEA and other developers speaks to the overall importance of these assets. The project provides support for EW system design, Development Test (DT), Operational Test (OT), and the development of tactics. Its quick reaction capabilities have had great impact on crisis situations such as the Falklands conflict, the Iran Harpoon threat, the Persian Gulf crisis, and Operation Desert Shield/Storm.

(U) The primary threat to surface ships is Anti-Ship Missile (ASM) systems. The ENEWS project is unique in that it is the only project within the Department of Defense (DOD) dedicated to developing and providing assets to test and evaluate the effectiveness of shipboard EW systems and tactics against Anti-Ship Missiles (ASMs).

(U) The ENEWS project is a critical part of the OSD Test Resource Master Plan. This plan employs many of the ENEWS assets for planning, analysis, testing and verification of shipboard EW systems and tactics. As part of its normal activities, ENEWS will provide T&E/DT&E/OT&E support to Combat Ship Systems Qualification Tests (CSSQT) for CG-47, DDG-51 and CV/CVN class ships as well as SLQ-32 PHASE improvements. DT and OT support will be provided for the SLQ-32 PHASE improvements, R17.OX (NULKA, Giant IR Decoys), the phase-in of AIEWS in FY-00, Rapid Anti-ship Integrated Defense System (RAIDS), all TORCH tests, Advanced IR Decoys, Decoy placement (Littoral), Ship IR Signature, AN/ALQ-99 ADVCAP, Multiband Anti-ship Cruise Missile Defense Tactical EW System (MATES), High Power Microwave (HPM) Program, and other Ship Self-Defense initiatives including RDT&E 6.3A Advanced Technology Demonstrations and 6.2 EW Technology Base programs. ENEWS assets are also employed to test the effectiveness of NATO ships EW systems.

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PROJECT NUMBER: E0672

PROGRAM ELEMENT TITLE: Threat Simulator Development

PROJECT TITLE: ENEWS

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 1998 ACCOMPLISHMENTS:

- (U) (\$550) Continued COMSIM System Readiness.
- (U) (\$525) Continued COMSIM Scenario Implementation, Database & Model Updates (COMPLETED 5 Models)
- (U) (\$380) Continued COMSIM System Engineering, Scenario Generator (COMPLETED CVX RF Vulnerability) & Database Development.
- (U) (\$125) Continued COMSIM Electronic Warfare Simulation. (COMPLETED; MM-38 Component Classes)
- (U) (\$70) Continued COMSIM Systems, Force on Force Simulation & Visualization Development (COMPLETED; ISAP tools, 2-D scope & strip chart).
- (U) (\$2,374) Continued RFSIM Simulator Readiness. (COMPLETED; Installation of new RF attenuators and Phase Shifters, Layout/installation of equipment into 20G racks for flyable Simulators, development of SCRAMNET control TAFS, Installation of 1st phase for new video system)
- (U) (\$988) Continued RFSIM Simulator Upgrades. (COMPLETED; range tracker upgrade and characterization for the HOTEL Simulator, Operational verification of ROMEO Simulator, COMPLETED assembly and check out of control panel for a new ARM seeker Simulator)
- (U) (\$500) Initiated RFSIM Anti-Ship Missile Simulator Development.
- (U) (\$212) Continued RFSIM Laboratory Systems Development.
- (U) (\$300) Continued RFSIM Field Systems Development & Data Analysis. (COMPLETED design for a "virtual strip chart" data viewer – IOC for GTRS)
- (U) (\$1,280) Continued IRSIM Readiness. (COMPLETED; 20G rack for Victor, Foxtrot shore side simulator)
- (U) (\$320) Continued IRSIM Flyable Simulator Upgrades. (COMPLETED; display & data recording system for VICTOR II Simulator)
- (U) (\$206) Continued IRSIM Flyable Systems Development. (COMPLETED; Integration of Mid-Wave detector with VICTOR Simulator)
- (U) (\$166) Continued Program Engineering & Technical Support.

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2. FY 1999 PLAN:

- (U) (\$626) Continue COMSIM System Readiness.
- (U) (\$340) Continue COMSIM Scenario Implementation, Database Updates
- (U) (\$252) Initiate COMSIM Anti Ship Missile Updates (4 Classified Systems)
- (U) (\$628) Initiate COMSIM Development of Anti Ship Missile Engagement Simulation & Environment Generator
- (U) (\$2,226) Continue RFSIM Simulator Readiness.
- (U) (\$170) Continue RFSIM Simulator Upgrades.
- (U) (\$1057) Continue RFSIM Anti-Ship Missile Simulator Upgrade.
- (U) (\$186) Continue RFSIM Dual RF/ARM Seeker Simulator Development
- (U) (\$268) Complete RFSIM Validation (3 simulators)
- (U) (\$399) Continue RFSIM CTS Target Fidelity Development.
- (U) (\$181) Complete RFSIM Ground Truth Reference System.
- (U) (1,407) Continue IRSIM Readiness
- (U) (\$283) Initiate IRSIM FOXTROT Simulator Upgrades (2 Classified Systems).
- (U) (\$187) Continue IRSIM VICTOR Simulator Upgrades (2 Classified Systems).
- (U) (\$52) Complete IRSIM Validation Report (1 System).
- (U) (\$51) Continue IRSIM MEIR II System Development.
- (U) (\$177) Initiate IRSIM FOXTROT Simulator Phase II Development.
- (U) (\$86) Continue IRSIM VICTOR Simulator Development.
- (U) (\$99) Initiate IRSIM Lab/Field Systems Development.
- (U) (\$1,227) Continue ENEWS Plans & Programs.
- (U) (\$49) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638.

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PROJECT TITLE: ENEWS

3. FY 2000 PLAN:

- (U) (\$625) Continue COMSIM System Readiness.
- (U) (\$290) Continue COMSIM Scenario Implementation, Database Updates
- (U) (\$386) Complete COMSIM 2 & Continue 2 COMSIM Anti Ship Missile Updates (Classified Systems)
- (U) (\$315) Initiate COMSIM Anti-Ship Missile Targets (Signature and Motion)
- (U) (\$1,055) Continue COMSIM Development of Anti Ship Missile Engagement Simulation & Environment Generator
- (U) (\$3,150) Continue RFSIM Simulator Readiness.
- (U) (\$400) Continue RFSIM Simulator Upgrades.
- (U) (\$1,400) Continue RFSIM Anti-Ship Missile Simulator Development.
- (U) (\$300) Complete RFSIM Validation (3 simulators)
- (U) (\$356) Complete RFSIM Dual RF/ARM Seeker Simulator Development
- (U) (\$605) Initiate RFSIM CTS 3 Axis Flight Simulator & Laboratory Systems Development.
- (U) (\$649) Continue RFSIM CTS Target Fidelity Development.
- (U) (\$1,078) Continue IRSIM Readiness.
- (U) (\$254) Complete IRSIM FOXTROT Simulator Upgrades (2 Classified Systems).
- (U) (\$340) Complete IRSIM VICTOR Simulator Upgrades (2 Classified Systems).
- (U) (\$75) Initiate IRSIM Littoral Warfare Simulations.
- (U) (\$54) Complete IRSIM Validation Report (1 System).
- (U) (\$40) Continue IRSIM MEIR II System Development.
- (U) (\$181) Continue IRSIM FOXTROT Simulator Phase II Development.
- (U) (\$500) Initiate IRSIM VICTOR Simulator Phase II Development.
- (U) (\$80) Initiate IRSIM Flyable MEIR II Simulator Development.
- (U) (\$170) Complete IRSIM Lab/Field Systems Development.
- (U) (\$181) Initiate IRSIM Littoral Warfare System Development.
- (U) (\$984) Continue ENEWS Plans & Programs

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(U) B. PROGRAM CHANGE SUMMARY

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
(U) FY 1999 President's Budget:	8,094	9,997	13,430
(U) Appropriated Value	8,094	9,997	
(U) Adjustments from PRESBUDG:	-98	-46	38
(U) FY 2000 President's Budget Submit:	7,996	9,951	13,468

CHANGE SUMMARY EXPLANATION:

(U) Funding: The FY 1998 decrease of -\$98 thousand reflects a -\$83 thousand Budget Submitting Office (BSO) realignment, -\$8 thousand for a Below Threshold Reprogramming adjustment and -\$7 thousand for other OSD adjustments.

The FY 1999 decrease of -\$46 thousand reflects a -\$46 thousand OSD PBD adjustment.

The FY 2000 net increase of \$38 thousand reflects a -\$129 thousand for Acquisition Center of Excellence adjustment and a +\$277 thousand rate adjustment for Naval Research Lab and Naval Aviation Depots, +\$85 thousand for a civilian pay rate adjustment and -\$195 thousand for non pay inflation.

(U) Schedule: Not applicable.

(U) Technical: Not applicable

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(U) C. OTHER PROGRAM FUNDING SUMMARY: Not applicable

Related RDT&E: Not applicable

(U) D. ACQUISITION STRATEGY: The Electronic Warfare Threat Simulator Development program is a Non-ACAT Program with no specific acquisition strategies. The Effectiveness of Navy Electronic Warfare Systems Project, under the Threat Simulator Development Program, is unique in that it is the only program within the Department of Defense dedicated solely to developing and providing Anti-Ship Cruise Missile threat assets for test and evaluation and is a critical part of the Under Secretary of Defense for Acquisition (USD(A)) annual Electronic Warfare Plan. This plan employs many of the Electronic Warfare Simulation Development project resources for the planning, analysis, testing, and verification of surface EW equipment. The Navy's Electronic Warfare Test and Evaluation Resource Investment Strategy emphasizes a coordinated analysis and prioritization of Navy EW T&E requirements and implementation of disciplined design-to-cost techniques.

(U) E. SCHEDULE PROFILE: Not applicable

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EXHIBIT R-3, FY 2000 RDT&E,N COST ANALYSIS

DATE: February 1999

BUDGET ACTIVITY: 6

PROGRAM ELEMENT: 0604256N

PROJECT NUMBER: E0672

PROJECT TITLE: ENEWS

<u>Cost Categories:</u>	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior Yrs Cost</u>	<u>FY 1999 Cost</u>	<u>FY 1999 Award Date</u>	<u>FY 2000 Cost</u>	<u>FY 2000 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
HDW/SW Dev, Sys Eng/Integ	WX	NRL, Wash DC	137,543	9,887		13,453		CONT	CONT	
Subtotal Project Development			\$137,543	\$9,887		\$13,453		CONT	CONT	
Remarks										
Not Applicable										
Subtotal Support			0	0		0		0	0	
Remarks										
Not Applicable										
Subtotal Test & Evaluation			0	0		0		0	0	
Remarks										
Travel	WX	NADEP Jax, FL	43	15		15		CONT	CONT	
Subtotal Management			43	15		15		CONT	CONT	
SBIR Assessment				49						
Remarks										
Total Cost			\$137,586	\$9,951		\$13,468		CONT	CONT	

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