

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification								DATE:			
								June 2001			
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE					
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-6						0604256N, Threat Simulator Development					
COST (\$ in Millions)	Prior Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Total PE Cost		27.702	25.934	30.110						Continuing	Continuing
E0602 Electronic Warfare Environment Sim (ECHO)		14.689	13.412	16.421						Continuing	Continuing
R0672 Effectiveness of Navy E.W. Systems (ENEWS)		13.013	12.522	13.689						Continuing	Continuing
Quantity of RDT&E Articles	Not Applicable										
(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 (NAWCWD), 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 (NAWCAD), 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 NAWCWD, China Lake, CA.											
(U) The R0672 Project (formally E0672), Effectiveness of Navy EW Systems (ENEWS), is a Department of the Navy (DON) unique project that supports Test and Evaluation 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 Infr 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 (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-2, RDTE Budget Item Justification
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EXHIBIT R-2a, RDT&E Project Justification								DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6		PROGRAM ELEMENT NUMBER AND NAME 0604256N, Threat Simulator Development				PROJECT NUMBER AND NAME E0602, ECHO					
COST (\$ in Millions)	Prior Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost		14.689	13.412	16.421						Continuing	Continuing
RDT&E Articles Qty	Not Applicable										
<p>(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.</p> <p>(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.</p> <p>(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, 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 Expenditures (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 early 2000's.</p> <p>(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: NAWCWD, China Lake and Point Mugu in CA, and NAWCAD, Patuxent River, MD.</p>											

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Exhibit R-2a, RDTEN Project Justification
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		June 2001
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDTE&E, N / BA-6	PE 0604256N, Threat Simulator Development	E0602, ECHO
<p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS (continued):</p> <p>1. FY 2000 ACCOMPLISHMENTS:</p> <ul style="list-style-type: none">- (U) (\$.459) Completed replacement of Fire and Forget Missile System.- (U) (\$.400) Continued SUTLER HITCH to support ASTE, Navy Advanced Expendables.- (U) (\$.400) Initiated/Completed Infrared Seeker Evaluation Van/Airborne Turret Infrared Measurement System (IRSEV/ATIMS).- (U) (\$1.711) Continued Advanced Multiple-Emitter Simulator Direction Finding Modification.- (U) (\$1.668) Initiated Radar Signal Density Environment (RSDE) Mobile.- (U) (\$.850) Continued I-23 additional seeker integration.- (U) (\$1.260) Continued Blue Army Threat Seeker for Missile on Mountain (MOM).- (U) (\$3.458) Initiated Hybrid Laboratory Simulator (HLS) MOBCAP Upgrades.- (U) (\$.593) Initiated IR/UV/RF Sensor/Facilities Integration.- (U) (\$.100) Continued Validation and Updates- Simulation Validation (SIMVAL).- (U) (\$.501) Continued Validation and Updates- Radar and Weapon Simulator Updates.- (U) (\$.063) Continued Validation and Updates- Missile/Gun Updates.- (U) (\$.415) Continued Validation and Updates- Validation.- (U) (\$1.314) Continued ECHO technical and engineering support.- (U) (\$.569) Continued ECHO System Engineering activity.- (U) (\$.928) Continued ECHO Test Requirements activity.		

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EXHIBIT R-2a, RDT&E Project Justification		DATE:
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDTE&E, N / BA-6	PE 0604256N, Threat Simulator Development	E0602, ECHO
<p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>2. FY 2001 PLANS:</p> <ul style="list-style-type: none">- (U) (\$.457) Complete SUTLER HITCH to support ASTE, Navy Advanced Expendables.- (U) (\$1.768) Initiate IR Target Array.- (U) (\$1.099) Continue Advanced Multiple-Emitter Simulator Direction Finding Modification.- (U) (\$2.180) Complete Radar Signal Density Environment (RSDE) Mobile.- (U) (\$.350) Complete I-23 additional seeker integration.- (U) (\$1.200) Complete Blue Army Threat Seeker for Missile on Mountain (MOM).- (U) (\$2.818) Continue Hybrid Laboratory Simulator (HLS) MOBCAP Upgrades.- (U) (\$.068) Initiate SA-XX for support of RF countermeasure programs Seeker Integration.- (U) (\$.326) Complete infrared ultra violet radio frequency (IR/UV/RF) Sensor/Facilities Integration.- (U) (\$.100) Continue Validation and Updates- SIMVAL.- (U) (\$.200) Continue Validation and Updates- Radar and Weapon Simulator Updates.- (U) (\$.400) Continue Validation and Updates- Validation.- (U) (\$1.080) Continue ECHO technical and engineering support.- (U) (\$.250) Continue ECHO System Engineering activity.- (U) (\$1.029) Continue ECHO Test Requirements activity.- (U) (\$.087) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 68.		

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EXHIBIT R-2a, RDT&E Project Justification		DATE:
		June 2001
APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NAME
RDTE&E, N / BA-6	PE 0604256N, Threat Simulator Development	E0602, ECHO
<p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>3. FY 2002 PLANS:</p> <ul style="list-style-type: none">- (U) (\$1.019) Initiate IR/UV Mobile.- (U) (\$1.600) Initiate IR Stimulator.- (U) (\$2.763) Continue IR Target Array.- (U) (\$500) Complete Advanced Multiple-Emitter Simulator Direction Finding Modification.- (U) (\$750) Initiate Advanced ManPads.- (U) (\$500) Initiate Reprogrammable Early Warning (EW)/Acquisition (ACQ) Radar.- (U) (\$900) Complete Hybrid Laboratory Simulator (HLS) MOBCAP Upgrades.- (U) (\$477) Complete SA-XX for support of RF countermeasure programs Seeker Integration.- (U) (\$243) Initiate remote/terminal electronic combat range- electronic combat simulation and evaluation laboratory (R/T ECR-ECSEL) Link.- (U) (\$075) Initiate air combat environment test and evaluation facility (ACETEF) IR Instrumentation.- (U) (\$3.197) Initiate and develop 1 vs 1 IR Alert/Response.- (U) (\$410) Initiate and develop 1 vs 2 IR Alert/Response.- (U) (\$100) Continue Validation and Updates- SIMVAL.- (U) (\$375) Continue Validation and Updates- Radar and Weapon Simulator Updates.- (U) (\$375) Continue Validation and Updates- Missile/Gun Updates.- (U) (\$400) Continue Validation and Updates- Validation.- (U) (\$1.396) Continue ECHO technical and engineering support.- (U) (\$300) Continue ECHO System Engineering activity.- (U) (\$1.041) Continue ECHO Test Requirements activity.		

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EXHIBIT R-2a, RDT&E Project Justification		DATE: June 2001																
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6	PROGRAM ELEMENT NUMBER AND NAME PE 0604256N, Threat Simulator Development	PROJECT NUMBER AND NAME E0602, ECHO																
<p>(U) B. PROGRAM CHANGE SUMMARY:</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: right;">FY2000</th> <th style="text-align: right;">FY2001</th> <th style="text-align: right;">FY2002</th> </tr> </thead> <tbody> <tr> <td>(U) FY 2001 President's Budget:</td> <td style="text-align: right;">16.087</td> <td style="text-align: right;">13.557</td> <td style="text-align: right;">17.980</td> </tr> <tr> <td>(U) Adjustments from the President's Budget:</td> <td style="text-align: right;">-1.398</td> <td style="text-align: right;">-0.145</td> <td style="text-align: right;">-1.559</td> </tr> <tr> <td>(U) FY 2002/2003 OSD/OMB Budget Submit:</td> <td style="text-align: right;">14.689</td> <td style="text-align: right;">13.412</td> <td style="text-align: right;">16.421</td> </tr> </tbody> </table> <p>CHANGE SUMMARY EXPLANATION:</p> <p>(U) Funding: The FY 2000 net decrease of \$1.398 million consists of \$ 1.126 million decrease for a reprioritization of requirements within the Navy, \$.209 million decrease for Small Business Inovative Research assessment, and \$0.063 million decrease for a Congressional Recission. The FY 2001 net decrease of \$.145 million consists of \$ 0.020 million decrease for a reprioritization of requirements within the Navy and \$0.125 million decrease for a Congressional Recission. The FY 2002 net decrease of \$1.559 million consists of \$1.420 million decrease for a reprioritization of requirements within the Navy and \$0.139 million decrease for economic assumptions.</p> <p>(U) Schedule: Schedule changes from the President's budget are a direct result of the funding changes identified above. The FY 2000 decrease resulted in the IR/UV/RF Sensor/Facilities Integration effort being descoped. Plans and specifications for some portions of this outyear analysis task will now not be completed until FY 2002. The FY 2000 decrease also resulted in the Blue Army Threat Seeker for Missile on Mountain project being descoped. The advanced multiple emitter simulator (AMES) Advanced Modulation project will be delayed two years (from FY02 to FY04). The Reprogrammable surface-to-Air missiles air interceptors (SAMs/ALs) will be delayed two years (from FY03 to FY05). The Micro tactical electronic warfare environment simulator (TEWES) replacement project is no longer required.</p> <p>(U) C. OTHER PROGRAM FUNDING SUMMARY: Not applicable</p> <p>(U) D. ACQUISITION STRATEGY: The Electronic Warfare Threat Simulator Development program is a Non-ACAT Program which operates in accordance with the OPNAV approved Electronic Warfare Test and Evaluation Resource Investment Strategy (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 Test Investment Coordinating 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</p> <p>(U) E. SCHEDULE PROFILE: Not applicable</p>				FY2000	FY2001	FY2002	(U) FY 2001 President's Budget:	16.087	13.557	17.980	(U) Adjustments from the President's Budget:	-1.398	-0.145	-1.559	(U) FY 2002/2003 OSD/OMB Budget Submit:	14.689	13.412	16.421
	FY2000	FY2001	FY2002															
(U) FY 2001 President's Budget:	16.087	13.557	17.980															
(U) Adjustments from the President's Budget:	-1.398	-0.145	-1.559															
(U) FY 2002/2003 OSD/OMB Budget Submit:	14.689	13.412	16.421															

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Exhibit R-3 Cost Analysis (page 1)								DATE:				
APPROPRIATION/BUDGET ACTIVITY								June 2001				
RDT&E, N / BA-6			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
			PE 0604256N, Threat Simulator Development			E0602, ECHO						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date			Cost to Complete	Total Cost	Target Value of Contract
IR Target Array	C/CPFF	TSC, Los Angeles, CA		0.700	01/01	0.500	11/01			Continuing	Continuing	2.700
IR Target Array	WX	NAWC-WD, China Lake, CA		0.868	11/00	1.963	11/01			Continuing	Continuing	
IR Target Array	C/CPFF	EWA, Ridgecrest, CA		0.200	11/00	0.200	10/01			Continuing	Continuing	0.600
AMES DF Modification	C/FFP	COMPTEK, Elmhurst, NY	2.511	0.750	11/00	0.350	10/01				3.611	3.611
RSDE Mobile	WX	NAWC-WD, China Lake, CA	1.668	2.180	11/00						3.848	
Blue Army Seeker	C/CPFF	GTRI, Atlanta, GA	1.729	0.690	11/00						2.419	2.419
HLS MOBCAP	C/CPFF	EWA, Marlton, NJ	1.700	1.649	11/00	0.618	11/01				3.967	3.967
Award Fees		EWA, Marlton, NJ	0.120	0.095	11/00	0.043	11/01				0.258	0.258
SA-XX Seeker Integration	WX	NAWC-WD, China lake, CA		0.068	11/00	0.477	11/01			Continuing	Continuing	
IR Stimulator	C/CPFF	TBD, China lake, CA				1.600	11/01			Continuing	Continuing	5.860
1V1 IR Alert/Response	C/CPFF	TBD, China lake, CA				3.197	01/02			Continuing	Continuing	3.460
1V2 IR Alert/Response	C/CPFF	TBD, China lake, CA				0.410	01/02			Continuing	Continuing	3.515
Hdw/Sw Dev. Systems Engineering	WX	NAWC-WD, China Lake, CA	50.359	4.116	11/00	4.521	11/01			Continuing	Continuing	
Miscellaneous	Various	NAWC-WD, China Lake, CA	20.898	1.994	02/01	2.527	02/02			Continuing	Continuing	
Subtotal Product Development			78.985	13.310		16.406				Continuing	Continuing	
Remarks:												

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Exhibit R-3, Project Cost Analysis
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Exhibit R-3 Cost Analysis (page 2)										DATE: June 2001		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6			PROGRAM ELEMENT PE 0604256N, Threat Simulator Development				PROJECT NUMBER AND NAME E0602, ECHO					
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 01 Cost	FY 01 Award Date	FY 02 Cost	FY 02 Award Date			Cost to Complete	Total Cost	Target Value of Contract
Subtotal T&E												
Remarks: Not Applicable												
Travel	WX	NADEP, Jax, FL	0.069	0.015	10/00	0.015	10/01			Continuing	Continuing	
SBIR Assessment				0.087								
Subtotal Management			0.069	0.102		0.015				Continuing	Continuing	
Remarks:												
Total Cost			79.054	13.412		16.421				Continuing	Continuing	
Remarks: There are no support costs.												

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Exhibit R-3, Project Cost Analysis
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EXHIBIT R-2a, RDT&E Project Justification								DATE: June 2001			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6	PROGRAM ELEMENT NUMBER AND NAME 0604256N, Threat Simulator Development					PROJECT NUMBER AND NAME R0672, Effectiveness of Navy Electronic Warfare Systems (ENEWS)					
COST (\$ in Millions)	Prior Year Cost	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Program
Project Cost		13.013	*10.638	13.689						Continuing	Continuing
RDT&E Articles Qty											

*Controls reduced by 1.884 (Issue 68268 NMCI). Funding will be reprogrammed out

(U) A. 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 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 NAVSEA, OPTEVFOR, Special Operations and other EW RDT&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 situations such as the Lebanon, Libyan and Persian Gulf crisis, the Iran Harpoon threat and Operation Desert Storm/Shield. The primary threat to surface ships is Anti-Ship Capable Missile (ASCM) systems. The ENEWS Project is unique in that it is the only project within the Department of Defense (DOD) dedicated to developing and providing realistic ASCM 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 OSD 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 DT&E, OT&E and FOT&E support to the Surface Navy for all ship classes. DT, OT and FOT support includes SLQ-32 updates as required, R17.OX (NULKA), the phase-in of AIEWS beginning in FY-00, Rapid Anti-ship Integrated Defense System (RAIDS), all MK245 GIANT tests, Advanced IR Decoys, Decoy placement (Littoral), Ship IR Signature and RCS measurement of DDG-51, LPD-17, DD-21 and PC class ships, AIEWS phase two, High Power Microwave (HPM) Program, and other Ship Self-Defense initiatives, including testing and evaluation of Future Navy Initiatives Capability (FNC) process. In addition, ENEWS assets are regularly employed to test the effectiveness of NATO ships' EW systems in Joint Allied Exercises

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. FY 2000 ACCOMPLISHMENTS:

- (U) (\$.572) Continued COMSIM System Readiness
- (U) (\$.425) Continued COMSIM Scenario Implementation, Environment Generator & System Engineering
- (U) (\$.175) Continued COMSIM Validation (Completed 1 Validation Process Report)
- (U) (\$.165) Continued COMSIM Instrumentation, Data Analysis and ASM Distributed Simulation Capability Improvements
- (U) (\$.220) Continued COMSIM Threat Database Repository Updates
- (U) (\$.442) Continued COMSIM Anti Ship Missile Updates (4 Systems)
- (U) (\$.493) Continued COMSIM Development of Anti Ship Missile Engagement Simulation (Completed INDIA)
- (U) (\$2.843) Continued RFSIM Simulator Readiness
- (U) (\$1.300) Continued RFSIM Multi-Threat Processor Upgrade. (Completed J-Band)
- (U) (\$.250) Continued RFSIM OEM Simulator Upgrades. (Completed OSCAR)
- (U) (\$.300) Completed RFSIM Validation (Completed 2 Validation Reports)
- (U) (\$.381) Continue RFSIM Dual RF/ARM Seeker Simulator.

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-6	PROGRAM ELEMENT NUMBER AND NAME 0604256N, Threat Simulator Development	PROJECT NUMBER AND NAME R0672, Effectiveness of Navy Electronic Warfare Systems (ENEWS)
<p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>1. FY 2000 ACCOMPLISHMENTS CONTINUED:</p> <ul style="list-style-type: none"> - (U) (\$.375) Initiated RFSIM CTS 3 Axis Flight Simulator. - (U) (\$.100) Continued RFSIM Analytical and Reporting Software (Complete India Tools). - (U) (\$.633) Continued RFSIM CTS Target Fidelity Development (Calibrated FA). - (U) (\$1.078) Continued IRSIM Readiness - (U) (\$.229) Continued IRSIM FOXTROT Simulator Upgrades (SIM 1 and B1). - (U) (\$.191) Continued IRSIM VICTOR Simulator Upgrade (SIM B and SIM3a) and System Eng. - (U) (\$.150) Initiated IRSIM VICTOR Simulator Upgrade (SIM 4) - (U) (\$.054) Continued IRSIM Validation (Completed 1 Validation Report) - (U) (\$.120) Continued IRSIM MEIR II System Development. (01) Flight Capability (04) - (U) (\$.162) Continued IRSIM FOXTROT I and FOXTROT II Simulator Development. - (U) (\$.525) Continued IRSIM VICTOR I and VICTOR II Simulator Development. - (U) (\$.185) Initiated IRSIM Littoral Warfare Sim 1 Hardware Development. - (U) (\$.145) Continued IRSIM Lab/Field Systems - (U) (\$1.500) Continued ENEWS Plans & Programs. <p>2. FY 2001 PLANS:</p> <ul style="list-style-type: none"> - (U) (\$.640) Continue COMSIM System Readiness - (U) (\$.272) Continue COMSIM Scenario Implementation, Environment Generator & System Engineering (Complete RADAR/Tactics Model Transitions) - (U) (\$.070) Continue COMSIM Validation (Complete 1 Validation Report) - (U) (\$.121) Continue COMSIM Threat Database Repository Updates - (U) (\$1.465) Continue RFSIM Simulator Readiness. - (U) (\$.990) Continue RFSIM Multi-Threat Processor Upgrade. (I-Band) - (U) (\$.260) Continue RFSIM Validation (Complete 2 Validation Reports) - (U) (\$.050) Complete RFSIM Dual RF/ARM Seeker Simulator - (U) (\$.065) Continue RFSIM Analytical and Reporting Software (Complete November Tools). - (U) (\$1.050) Continue IRSIM Readiness - (U) (\$.092) Complete IRSIM VICTOR Simulator Upgrades (SIM B and SIM3a) and System Eng. - (U) (\$.065) Continue IRSIM Validation (Complete 1 Validation Report). - (U) (\$.328) Continue ENEWS Plans & Programs. - (U) (\$5.100) Initiate Classified Program - (U) (\$.070) Portion of extramural program reserved for Small Business Innovation Research assessment in accordance with 15 USC 638. 		

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EXHIBIT R-2a, RDT&E Project Justification		DATE: June 2001
APPROPRIATION/BUDGET ACTIVITY RDTE&E, N / BA-6	PROGRAM ELEMENT NUMBER AND NAME 06042556N, Threat Simulator Development	PROJECT NUMBER AND NAME R0672, Effectiveness of Navy Electronic Warfare Systems (ENEWS)
<p>(U) PROGRAM ACCOMPLISHMENTS AND PLANS:</p> <p>3. FY 2002 PLANS:</p> <ul style="list-style-type: none">· (U) (\$.640) Continue COMSIM System Readiness· (U) (\$.552) Continue COMSIM Scenario Implementation, Environment Generator & System Engineering· (U) (\$.105) Continue COMSIM Validation (Complete 1 Validation Report)· (U) (\$.120) Continue COMSIM Threat Database Repository Updates· (U) (\$2.039) Continue RFSIM Simulator Readiness.· (U) (\$.900) Continue RFSIM Multi-Threat Processor Upgrade. (I-Band)· (U) (\$.300) Continue RFSIM Validation (Complete 2 Validation Reports)· (U) (\$.120) Continue RFSIM Analytical and Reporting Software· (U) (\$.500) Initiate RFSIM New Flyable Simulator Development· (U) (\$.170) Initiate RFSIM Laboratory Upgrades· (U) (\$1.299) Continue IRSIM Readiness· (U) (\$.195) Initiate/Complete IRSIM VICTOR Simulator Upgrades· (U) (\$.059) Continue IRSIM Validation (Complete 1 Validation Report).· (U) (\$.590) Continue ENEWS Plans & Programs.· (U) (\$6.100) Continue Classified Program		

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EXHIBIT R-2a, RDT&E Project Justification		DATE: June 2001																
APPROPRIATION/BUDGET ACTIVITY RDTE, N / BA-6	PROGRAM ELEMENT NUMBER AND NAME 0604256N, Threat Simulator Development	PROJECT NUMBER AND NAME R0672, Effectiveness of Navy Electronic Warfare Systems (ENEWS)																
<p>(U) B. PROGRAM CHANGE SUMMARY:</p> <table style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: right;">FY2000</th> <th style="text-align: right;">FY2001</th> <th style="text-align: right;">FY2002</th> </tr> </thead> <tbody> <tr> <td>(U) FY 2001 President's Budget:</td> <td style="text-align: right;">13.394</td> <td style="text-align: right;">10.736</td> <td style="text-align: right;">13.458</td> </tr> <tr> <td>(U) Adjustments from the President's Budget:</td> <td style="text-align: right;">-0.381</td> <td style="text-align: right;">-1.786</td> <td style="text-align: right;">0.231</td> </tr> <tr> <td>(U) FY 2002 PresBudg Submission:</td> <td style="text-align: right;">13.013</td> <td style="text-align: right;">12.522</td> <td style="text-align: right;">13.689</td> </tr> </tbody> </table> <p style="margin-top: 20px;">CHANGE SUMMARY EXPLANATION:</p> <p style="margin-left: 40px;">(U) Funding: The FY 2000 net decrease of \$.381 million consists of -\$.063 million for SBIR reduction, -.053 million for proportionate reduction, and -\$252 million for BTRs programs The FY 2001 net decrease of \$.098 million consists of -.075 million pro-rata share and -.023 million governmentwide recission and -\$1.884 million reprogrammed for higher priority programs The FY 2002 net adjustments of \$.231 million consists of , +\$297 million for NWCF rate adjustment, and -.053 million for NWCF *See Technical discussion below for other funding impact.</p> <p style="margin-left: 40px;">(U) Schedule: Not Applicable</p> <p style="margin-left: 40px;">(U) Technical: Starting in FY01 the Project will be reduced by approximately 50% with funding being applied to a separate classified program. Future Project plans to accomplish stated technical objectives for threat simulator development are being re-baselined and re-prioritized to accommodate this change.</p> <p>(U) C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable</p> <p>(U) D. ACQUISITION STRATEGY: Not Required</p> <p>(U) E. SCHEDULE PROFILE: Not Required</p>				FY2000	FY2001	FY2002	(U) FY 2001 President's Budget:	13.394	10.736	13.458	(U) Adjustments from the President's Budget:	-0.381	-1.786	0.231	(U) FY 2002 PresBudg Submission:	13.013	12.522	13.689
	FY2000	FY2001	FY2002															
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(U) FY 2002 PresBudg Submission:	13.013	12.522	13.689															

R-1 SHOPPING LIST - Item No. 151

UNCLASSIFIED

Exhibit R-2a, RDTE Project Justification
(Exhibit R-2a, page 12 of 13)

UNCLASSIFIED

Remarks:

Exhibit R-3 Cost Analysis (page 1)

DATE:

June 2001

APPROPRIATION/BUDGET ACTIVITY

[illegible]

PROJECT NUMBER AND NAME	
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RDT&E, N / BA-6

0604256N, Threat Simulator Development

R0672, Effectiveness of Navy Electronic Warfare Systems (ENEWS)

Cost Categories (Tailor to WBS, or System/Item Requirements)	
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Contract
Method
& Type

Performing Activity & Location	Start Date	End Date	Hours	Rate	Total
1. [Empty]					
2. [Empty]					
3. [Empty]					
4. [Empty]					
5. [Empty]					
6. [Empty]					
7. [Empty]					
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94. [Empty]					

Total PY s Cost	
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FY 01	
Cost	

FY 01 Award Date	
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	FY 02	
	Cost	

FY 02	
Award	
Date	

FY 03 Cost	
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FY 03 Award Date	
------------------------	--

Cost to Complete	
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	Total Cost
--	---------------

Target Value
of Contract

HDW/SW Dev, Sys Eng/Integ

WX

NRL, Wash DC	
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160.741

12.452

10/00

13.689

10/01

14.192

NA

Continuing

Continuing

SBIR ASSESSMENT

0.070

0.070

Subtotal Product Development

160.741

12.522

13.689

14.192

Continuing

Continuing