

**UNCLASSIFIED**

**EXHIBIT R-2, FY 2001 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET**

DATE: February 2000

**BUDGET ACTIVITY: 6**

**PROGRAM ELEMENT: 0604759N**  
**PROGRAM ELEMENT TITLE: Major T&E Investment**

**PROJECT NUMBER: W2195**  
**PROJECT TITLE: T&E Investment**

(U) COST: (Dollars in Thousands)

<u>Project Number &amp; Title</u>	<u>FY 1999 Actual</u>	<u>FY 2000 Budget</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>
W2195 Test and Evaluation Investment	16,764	42,386	40,707	42,159	50,520	51,161	53,670	Cont.	Cont.
W2447 East Coast Communications	3,874	0	0	0	0	0	0		3,874
W2799 NAWC, PAX River Tracking Systems Upgrades	0	1,989	0	0	0	0	0		1,989
W2800 Advanced Virtual Environment	0	1,989	0	0	0	0	0		1,989
<b>TOTAL</b>	<b>20,638</b>	<b>46,364</b>	<b>40,707</b>	<b>42,159</b>	<b>50,520</b>	<b>51,161</b>	<b>53,670</b>	<b>Cont.</b>	<b>Cont.</b>

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project improves visibility of Test and Evaluation (T&E) resources across the Services for Major T&E investment funding. These funds correct major deficiencies, improve T&E capabilities, and increase T&E support effectiveness. The T&E Investment project provides support for the Naval Undersea Warfare Center Detachment Atlantic Undersea Test and Evaluation Center (NAVUNSEAWARCEN DET AUTEC), Andros Island, Bahamas; the Naval Air Warfare Center Weapons Division (NAVAIRWARCENWPNDIV), Point MUGU, CA and China Lake, CA; and the Naval Air Warfare Center Aircraft Division (NAVAIRWARCENACDIV), Patuxent River, MD.

(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, RDT&E Item Justification  
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**EXHIBIT R-2a, FY 2001 RDT&E,N BUDGET PROJECT JUSTIFICATION SHEET**

DATE: February 2000

BUDGET ACTIVITY: 6

PROGRAM ELEMENT: 0604759N  
PROGRAM ELEMENT TITLE: Major T&E Investment

PROJECT NUMBER: W2195  
PROJECT TITLE: T&E Investment

(U) COST: (Dollars in Thousands)

<u>Project Number &amp; Title</u>	<u>FY 1999 Actual</u>	<u>FY 2000 Budget</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>
W2195 Test and Evaluation Investment									
<b>TOTAL</b>	<b>16,764</b>	<b>42,386</b>	<b>40,707</b>	<b>42,159</b>	<b>50,520</b>	<b>51,161</b>	<b>53,670</b>	<b>Cont. Cont.</b>	<b>Cont. Cont.</b>

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This project improves visibility of Test and Evaluation (T&E) resources across the Services for Major T&E investment funding. These funds correct major deficiencies, improve T&E capabilities, and increase T&E support effectiveness. The T&E Investment project provides support for the Naval Undersea Warfare Center Detachment Atlantic Undersea Test and Evaluation Center (NAVUNSEAWARCEN DET AUTEC), Andros Island, Bahamas; the Naval Air Warfare Center Weapons Division (NAVAIRWARCENWPNDIV), Point MUGU, CA and China Lake, CA; and the Naval Air Warfare Center Aircraft Division (NAVAIRWARCENACDIV), Patuxent River, MD.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. (U) FY 1999 ACCOMPLISHMENTS:

- (\$6,300) NAVUNSEAWARCEN DET AUTEC. Continued the Tracking Hydrophone Replacement project.
- (\$7,072) NAVAIRCENWPNDIV. Continued to modernize core instrumentation capability. Completed Kineto tracking mount (KTM) version "B" prototype development and validation to upgrade existing mounts with video trackers, infrared (IR) cameras, telescopes, and microwave transmission capability. Initiated the upgrade of six Kineto tracking mounts to the KTM-B version. Continued high rate telemetry data acquisition and processing upgrades at the Sea Range. Completed land range radar upgrades. Initiated the transfer and refurbishment of an ARSR-3 air surveillance radar to the Sea Range. Completed the installation of a digital microwave link from Point Mugu to China Lake via Edwards Air Force Base.
- (\$3,392) NAVAIRWARCENACDIV. Continued Instrumentation Component Replacement (ICR) efforts on existing flight test and ground test systems to maintain core capabilities. Completed upgrade of dynamic avionics measurement capabilities. Initiated the common avionics instrumentation system efforts for procurement of hardware suites.

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DATE: February 2000

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PROGRAM ELEMENT: 0604759N  
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PROJECT NUMBER: W2195  
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#### 2. (U) FY 2000 PLAN:

- (\$6,945) NAVUNSEAWARCEN DET AUTEK. Complete the Tracking Hydrophone Replacement project. Continue ICR efforts. Initiate Radar Systems Improvement Project. Initiate Off-Board Advanced Systems Stimulator Project. Initiate the Underwater Range Data Communication Project.
- (\$19,750) NAVAIRCENWPNDIV. Continue to modernize core instrumentation capability. Complete six and initiate upgrade of an additional six version "B" Kineto tracking mounts with video tracker, IR cameras and telescopes, and microwave transmission capability. Complete upgrade to all Weapons Division ranges data presentation and display systems. Continue high rate telemetry data acquisition and processing upgrades from one to four 20Mb/s data streams at the Sea Range. Complete the refurbishment and installation of the ARSR-3 radar at the Sea Range. Initiate the upgrade of two metric radar (3 and 4 of 7) electronic systems and control consoles and add moving target indicators, automatic calibration and computer controls of chart recorders at San Nicolas Island. Initiate an Integrated Target Control Keep Alive project until a new target control system is developed and fielded. Initiate modernization of air traffic control radar processing systems, controller consoles and voice switches to systems that will be compatible with the Federal Aviation Administration (FAA) and non-Major Range Test and Facility Base (MRTFB) Department of Defense (DoD) air control network. Initiate modernizing deteriorated copper cables providing data, video and communications within the Sea Range complex. Initiate a project to assemble and field remote, fixed and mobile telemetry receiving stations to provide full land range coverage required by customers. Initiate replacement of obsolete GPS receivers and operating software with commercial off-the-shelf receivers and inertial reference units.
- (\$2,839) Network Centric Warfare (NCW) Implementation. This project is identified as a consolidated Test and Evaluation modernization effort on behalf of NAVAIRWARCENWPNDIV and NAVAIRWARCENACDIV that refocuses investments towards interconnection of existing facilities. Initiate the establishment of an enterprise federation of interconnected facilities that will utilize a common scheduling tool, interoperable models and a common network. NCW integrates Research, Development, Test and Evaluation facilities to optimize support for air combat systems integration into future joint warfare systems. Use existing communications infrastructure Defense Research Engineering Network and Defense Information Systems Network. Procure hardware and software to improve facility connectivity, establish software capabilities such as Distributed Interactive Simulation and High Level Architecture to support interoperability testing, and develop needed collaborative tools to operate the federation.
- (\$11,852) NAVAIRWARCENACDIV. Continue to modernize core instrumentation capability. Modernize two RIR-778 Range Instrumentation radars and the Multiple Target Instrumentation Radar. Replace aging Telemetry acquisition and processing equipment. Replace and upgrade obsolescent image generators and video display systems at the Manned Flight Simulator facility. Develop full-spectrum dynamic avionics and aircraft signature measurement system. Procure Common Avionics Instrumentation System (CAIS) hardware suites. Provide fiber-optic connectivity between multiple sites and range facilities. Correct deficiency in tactical electronic warfare simulators. Develop and install radio frequency to fiber optic interface system.

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Exhibit R-2a RDT&E Project Justification  
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### EXHIBIT R-2a, FY 2001 RDT&E,N BUDGET PROJECT JUSTIFICATION SHEET

DATE: February 2000

BUDGET ACTIVITY: 6

PROGRAM ELEMENT: 0604759N  
PROGRAM ELEMENT TITLE: Major T&E Investment

PROJECT NUMBER: W2195  
PROJECT TITLE: T&E Investment

(U) FY 2000 PLAN: (continued)

- (\$1,000) Joint Modeling and Simulation System (JMASS). Initiate efforts to develop a tri-service simulation infrastructure that will assist model developers, engineers, and analysts in the development of digital models, configuration and execution of simulations and analysis of simulation capabilities.

3. (U) FY 2001 PLAN:

- (\$6,915) NAVUNSEAWARCEN DET AUTEK. Continue ICR efforts. Continue Radar Systems Improvement efforts. Continue the Off-Board Advanced Systems Stimulator Project. Continue the Underwater Range Data Communication Project.
- (\$14,740) NAVAIRCENWPNDIV. Continue to modernize core instrumentation capability. Complete high rate telemetry data acquisition and processing upgrades from one to four 20Mb/s data streams at the Sea Range. Complete the upgrade of two metric radar (3 and 4 of 7) electronic systems and control consoles and add moving target indicators, automatic calibration and computer controls of chart recorders at San Nicolas Island. Complete the existing Integrated Target Control System Keep Alive project until a new target control system is developed and fielded. Continue modernization of air traffic control radar processing systems, controller consoles and voice switches to systems that will be compatible with the Federal Aviation Administration (FAA) and non-Major Range Test and Facility Base (MRTFB) Department of Defense (DoD) air control network. Continue modernizing deteriorated copper cables providing data, video and communications within the Sea Range complex. Continue a project to assemble and field remote, fixed and mobile telemetry receiving stations to provide full land range coverage required by customers. Complete Kineto tracking mounts with video tracker, IR cameras and telescopes, and microwave transmission capability. Complete replacement of obsolete GPS receivers and operating software.
- (\$3,078) Continue Network Centric Warfare (NCW) Implementation. Continue the consolidated Test and Evaluation effort on behalf of NAVAIRWARCENWPN and NAVAIRWARCENACDIV that refocuses investments towards interconnection of existing facilities. Continue the establishment of an enterprise federation of interconnected facilities that will utilize a common scheduling tool, interoperable models and a common network. Continue to integrate Research, Development, Test and Evaluation facilities to optimize support for air combat systems integration into future joint warfare systems. Continue to use existing communications infrastructure Defense Research Engineering Network and Defense Information Systems Network. Continue to procure hardware and software to improve facility connectivity, establish software capabilities such as Distributed Interactive Simulation and High Level Architecture to support interoperability testing, and develop needed collaborative tools to operate the federation
- (\$14,374) NAVAIRWARCENACDIV. Continue to modernize core instrumentation capability. Continue to modernize two RIR-778 Range Instrumentation radars and the Multiple Target Instrumentation Radar. Continue to replace aging Telemetry acquisition and processing equipment. Continue to replace and upgrade obsolescent image generators and video display systems at the Manned Flight Simulator facility. Continue to develop full-spectrum dynamic avionics and aircraft signature measurement system. Continue procurement of Common Avionics Instrumentation System (CAIS) hardware suites. Continue to provide fiber-optic connectivity between multiple sites and range facilities. Continue to correct deficiency in tactical electronic warfare simulators. Continue to develop and install radio frequency to fiber optic interface system.
- (\$1,600) JMASS. Continue efforts to develop a tri-service simulation infrastructure that will assist model developers, engineers, and analysts in the development of digital models, configuration and execution of simulations and analysis of simulation capabilities.

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Exhibit R-2a RDT&E Project Justification  
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**EXHIBIT R-2a, FY 2001 RDT&E,N BUDGET PROJECT JUSTIFICATION SHEET**

**DATE: February 2000**

**BUDGET ACTIVITY: 6**

**PROGRAM ELEMENT: 0604759N**  
**PROGRAM ELEMENT TITLE: Major T&E Investment**

**PROJECT NUMBER: W2195**  
**PROJECT TITLE: T&E Investment**

**(U) B. PROGRAM CHANGE SUMMARY**

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
(U) FY 2000 President's Budget:	17,241	42,621	42,461
(U) Appropriated Value:	17,281	42,621	
(U) Adjustments from Pres Budget:	-477	-235	-1,754
(U) FY 2001 OSD/OMB Budget Submit:	16,764	42,386	40,707

**CHANGE SUMMARY EXPLANATION:**

FY 1999 net decrease of \$477 thousand reflects a \$320 thousand decrease for reprioritization of requirements within the Navy, a \$79 thousand decrease for Small Business Innovation Research assessment, and a \$78 thousand decrease for economic assumption. FY 2000 reflects a \$235 thousand decrease for an Across-the-Board Congressional rescission. FY 2001 net decrease of \$1,754 thousand reflects a \$1,542 thousand decrease for reprioritization of requirements within the Navy, a \$259 thousand decrease for revised economic assumptions; partially offset by a \$47 thousand increase for Military/Civilian Pay.

(U) Schedule: Not applicable

(U) Technical Not applicable

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

Related RDT&E

(U) P.E. 0605807F: Test and Evaluation (Air Force)  
0605864N: Test and Evaluation (Navy)

(U) D. ACQUISITION STRATEGY: The overall program is designed to establish a synergism with investments that supports a corporate Navy goal of ensuring required Test and Evaluation capabilities are available for acquisition program test at the least possible cost. These projects enable Navy Test and Evaluation ranges to support test program milestone decisions as well as develop and field test capabilities needed to support advanced technology acquisition programs.

(U) E. SCHEDULE PROFILE: Not applicable

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**Exhibit R-2a RDT&E Project Justification**  
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**EXHIBIT R-3, FY 2001 RDT&E,N COST ANALYSIS**

DATE: February 2000

**BUDGET ACTIVITY: 6**

**PROGRAM ELEMENT: 0604759**

**PROJECT NUMBER: W2195**  
**PROJECT TITLE T&E Investment**

<u>Cost Categories:</u>	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; 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>FY 2001 Cost</u>	<u>FY 2001 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
Network Centric Warfare Implementation	WX	NAWCWD, Point Mugu, CA				2,839	10/99	3,078	10/00		5,917	
Dynamic Avionics Measurements	WX	NAWCAD, Patuxent River, MD	10,432	1,772	10/98						12,204	
Tracking Hydrophone Replacement	WX	AUTEC, Newport, RI	8,272	6,300	10/98	2,200	10/99				16,772	
Tracking Mounts	WX	NAWCWD, Point Mugu, CA	7,238	1,470	10/98	2,655	10/99	1,303	10/00		12,666	
Range Telemetry Systems	WX	NAWCWD, Point Mugu, CA	4,874	1,012	10/98	2,293	10/99	1,147	10/00		9,326	
Air surveillance Radar	WX	NAWCWD, Point Mugu, CA	260	947	10/98	2,000	10/99				3,207	
Slep FPS-16	WX	NAWCWD, Point Mugu, CA				3,000	10/99	1,700	10/00		4,700	
Radar Sys Improvements	WX	AUTEC, Newport, RI				1,700	10/99	1,600	10/00	1,300	4,600	
CATS-Radars	WX	NAWCAD, Patuxent River, MD				1,100	10/99	900		1,225	3,225	
Test Monitoring and Processing	WX	NAWCAD, Patuxent River, MD				1,700	10/99	2,300	10/00	4,000	8,000	
Target Control System	WX	NAWCWD, Point Mugu, CA				1,000	10/99	150	10/00		1,150	
Off-Board Advanced Sys Stimulator	WX	AUTEC, Newport, RI				2,300	10/99	3,500	10/00	6,800	12,600	
Manned Flight Stimulator Upgrades	WX	NAWCAD, Patuxent River, MD				1,000	10/99	2,150	10/00	3,000	6,150	
MRTFB Surveillance	WX	NAWCWD, Point Mugu, CA				200	10/99	2,600	10/00	7,000	9,800	
Dynamic Multi-spectral Avionics Measure	WX	NAWCAD, Patuxent River, MD				1,725	10/99	2,700	10/00	4,800	9,225	
CAIS Equipment	WX	NAWCAD, Patuxent River, MD		294		2,410	10/99	2,600	10/00	2,500	7,804	
Cable Plant Phase II	WX	NAWCWD, Point Mugu, CA				1,500	10/99	3,000	10/00	2,500	7,000	

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Exhibit R-3 RDT&E Cost Analysis  
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**EXHIBIT R-3, FY 2001 RDT&E,N COST ANALYSIS**

DATE: February 2000

BUDGET ACTIVITY: 6

PROGRAM ELEMENT: 0604759N

PROJECT NUMBER: W2195

PROJECT TITLE: T&E Investment

Cost Categories:	Contract Method & Type	Performing Activity & Location	Total Prior Yrs Cost	FY 1999 Cost	FY 1999 Award Date	FY 2000 Cost	FY 2000 Award Date	FY 2001 Cost	FY 2001 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Fiber Optic Network Connectivity	WX	NAWCAD, Patuxent River, MD				800	10/99	1,000			1,800	
ATEWES Generator Upgrade	WX	NAWCAD, Patuxent River, MD				858	10/99	804			1,662	
ARDS Receiver Upgrade	WX	NAWCWD, Point Mugu, CA				2,925	10/99	2,150			5,075	
RF to Fiber Transmission Interface	WX	NAWCAD, Patuxent River, MD				1,259	10/99	900			2,159	
Remote TM Stations	WX	NAWCWD, Point Mugu, CA				793	10/99	1,305		3,700	5,798	
Investment Items Less Than \$1M	WX	Various	305,703	4,969	10/98	4,884	10/99	2,915		CONT.	CONT.	
Underwater Range Data Communication	WX	AUTEC, Newport, RI				245	10/99	1,305	10/00	3,800	5,350	
JMASS	MP	USAF, WPAFB, OH				1,000	10/99	1,600	10/00	2,500	5,100	
<b>Subtotal Product Development</b>			<b>336,779</b>	<b>16,764</b>		<b>42,386</b>		<b>40,707</b>		<b>CONT.</b>	<b>CONT.</b>	
Remarks												
<b>Subtotal Support: Not applicable</b>			<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>	
Remarks												
<b>Subtotal T&amp;E: Not applicable</b>			<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>	
Remarks												
<b>Subtotal Management:</b>			<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>	
Remarks												
<b>Total Cost</b>			<b>336,779</b>	<b>16,764</b>		<b>42,386</b>		<b>40,707</b>		<b>CONT.</b>	<b>CONT.</b>	

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**EXHIBIT R-2a, FY 2001 RDT&E,N BUDGET PROJECT JUSTIFICATION SHEET**

DATE: February 2000

**BUDGET ACTIVITY: 6**

**PROGRAM ELEMENT: 0604759N**  
**PROGRAM ELEMENT TITLE: Major T&E Investment**

**PROJECT NUMBER: W2447**  
**PROJECT TITLE: East Coast Communications**

(U) COST: (Dollars in Thousands)

<u>Project Number &amp; Title</u>	<u>FY 1999 Actual</u>	<u>FY 2000 Budget</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>
<b>W2799 East Coast Communications</b>									
<b>TOTAL</b>	<b>3,874</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>3,874</b>

(U) A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The East Coast Communications Network is a state of the art communications network that provides physical interconnectivity for the transmission of high speed digital data to multiple facilities integrating complex test and training scenarios into one seamless environment.

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

1. (U) FY 1999 ACCOMPLISHMENTS:

- (\$3,874) Continued identification of interconnectivity and interoperability requirements. Procured required hardware and software to support program efforts. Supported several Research, Development, Test and Evaluation programs using distributed engineering efforts across existing Department of Defense wide-band networks. Provided technical support to the Navy acquisition community using the East Coast Communications Network. Continued defining test capabilities and cost benefits using the East Coast Communications Network system.

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**BUDGET ACTIVITY: 6**

**PROGRAM ELEMENT: 0604759N**  
**PROGRAM ELEMENT TITLE: Major T&E Investment**

**PROJECT NUMBER: W2447**  
**PROJECT TITLE: East Coast Communications**

**(U) B. PROGRAM CHANGE SUMMARY**

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
(U) FY 2000 President's Budget:	3,991	0	0
(U) Appropriated Value:	4,000	0	
(U) Adjustments from President's Budget:	-117	0	0
(U) FY 2001 President's Budget Submit:	3,874	0	0

**CHANGE SUMMARY EXPLANATION:**

(U) Funding: FY 1999 reflects a \$99 thousand decrease for the Small Business Innovative Research (SBIR) assessment and a \$18 thousand decrease for revised economic assumptions.

(U) Schedule: Not applicable.

(U) Technical: Not applicable.

**(U) C. OTHER PROGRAM FUNDING SUMMARY: Not Applicable**

**(U) D. ACQUISITION STRATEGY: Not applicable.**

**(U) E. SCHEDULE PROFILE: Not applicable.**

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EXHIBIT R-3, FY 2001 RDT&E,N COST ANALYSIS

DATE: February 2000

BUDGET ACTIVITY: 6

PROGRAM ELEMENT: 0604759N

PROJECT NUMBER: W2447

PROJECT TITLE: East Coast Communications

<u>Cost Categories:</u>	<u>Contract Method</u>	<u>Performing Activity &amp; 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>FY 2001 Cost</u>	<u>FY 2001 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
East Coast Communications	WX	NAWCAD, Patuxent River, MD	0	3,874	6/99	0		0			3,874	
<b>Remarks:</b>												
<b>Subtotal Support</b>			<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>			<b>0</b>	<b>0</b>
<b>Remarks:</b>												
<b>Subtotal Test &amp; Evaluation</b>			<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>			<b>0</b>	<b>0</b>
<b>Remarks:</b>												
<b>Subtotal Management</b>			<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>			<b>0</b>	<b>0</b>
<b>Remarks:</b>												
<b>Total Cost</b>			<b>0</b>	<b>3,874</b>		<b>0</b>		<b>0</b>			<b>3,874</b>	

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