

# UNCLASSIFIED

## FY 2000 President's Budget Estimates

Exhibit R-2, RDT&E,N Budget Item Justification

DATE: February 1999

BUDGET ACTIVITY: 7 PROGRAM ELEMENT: 0204163N  
PROGRAM ELEMENT TITLE: FleetCommunications

COST (\$ in Thousands)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
X0725 Communication Automation	708	1,798	1,147	1,884	1,931	1,980	2,028	2,077	CONT	CONT
X2074 Communication Support Systems	1,505	0	0	0	0	0	0	0		
X1083 Shore to Ship Communications System	11,830	13,592	8,108	7,763	6,898	7,090	7,257	7,427	CONT	CONT
X0795 Support of MEECN	452	722	692	706	719	733	750	767	CONT	CONT
Total P.E. Cost	14,495	16,112	9,947	10,353	9,548	9,803	10,035	10,271	CONT	CONT

### A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The Communications Automation Program (NAVMACS II/SMS) develops joint/combined individual and organizational message handling to US Naval ships, USMC Vans, and selected MSC and USCG platforms. NAVMACS II/SMS develops fleet interface to DMS and legacy ashore messaging systems. The Communications Support Systems (CSS) develops the architecture for an integrated Navy communication system for Ship-to-Shore and Shore-to-Ship communications defined as the Copernicus TADIXS and prototypes early operational capabilities and incremental implementation and fielding of CSS capabilities. The Shore to Ship Communications System develops communications systems elements which provide positive command and control of deployed ballistic missile submarines (SSBNs). Minimum Essential Emergency Communications Network (MEECN) is the Tri-Service transmission system which ensures delivery of Emergency Action Messages (EAM) to our strategic platforms.

(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for upgrade of existing, operational systems

B. (U) PROGRAM CHANGE SUMMARY: FY 1998: Reflects a \$-259K SBIR reduction, a FY98 Update -\$674K, C41 RDT&E,N Expenditure Carryover - \$70K, \$-2,272K BTR reduction, and \$1,809 Pending Reprogramming. FY 99-00: Reflects a \$+300K increase due to realignment of TACAMO funding to CEP, a \$-698K reduction for C4I expenditure carryover, and \$-174 miscellaneous reductions.

C. (U) OTHER PROGRAM FUNDING SUMMARY: See individual projects.

D. (U) ACQUISITION STRATEGY: See individual projects.

R-1 Shopping List - Item No 156-1 of 156-16

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Exhibit R-2, RDT&E,N Budget Item Justification

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FY 2000 President's Budget Estimates

Exhibit R-2, RDT&E,N Budget Item Justification

DATE: February 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204163N

PROGRAM ELEMENT TITLE: FleetCommunications

E. (U) SCHEDULE PROFILE: See individual projects.

R-1 Shopping List - Item No 156-2 of 156-16

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Exhibit R-2, RDT&E,N Budget Item Justification

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**FY 2000 President's Budget Estimates**

Exhibit R-2a, RDT&E,N Project Justification

Date: FEB 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204163N

PROJECT NUMBER: (X0725)

PROGRAM ELEMENT TITLE: FleetCommunications

PROJECT TITLE: Communication  
Automation

Cost (\$ in Thousands)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
X0725 Communications Automation	708	1,798	1,147	1,884	1,931	1,980	2,028	2,077	CONT	CONT

**A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:**

This project is a continuing program that provides for automation and communications upgrades for Fleet tactical users. The Naval Modular Automated Communications System II (NAVMACS II) is the network centric Single Messaging Solution (SMS) for the processing, storage, distribution and forwarding of DMS organizational and individual messages to the user's desktop throughout the IT-21 LAN/WAN.

**PROGRAM ACCOMPLISHMENTS AND PLANS:**

• **FY 1998 ACCOMPLISHMENTS:**

(\$708) NAVMACS II/SMS: Continued DMS Tactical Afloat efforts. Continued accommodation to C3 technology. Integrated PC technology. Drafted SMS CONOPS. Began SMS product evaluation. Developed SMS test strategy, test plan and test schedule. Began development of design documents.

• **FY 1999 PLAN:**

(\$1,798) NAVMACS II/SMS: Continue DMS Tactical Afloat research and development efforts. Provide test and evaluation of DMS components and protocols in SMS/IT-21 network centric environment. Integrate DMS components and protocols with SMTP and other legacy protocols. Conduct intersystem integration and testing for shipboard SMS. Begin FAMIS interface testing of Smart-push/Warrior-pull with P-MUL broadcast. Continue accommodation to C3 technology including migration to WIN NT DII/COE compliant environment.

• **FY 2000 PLAN:**

(\$1,147) Continue Tactical DMS/SMS afloat migration efforts. Continue accommodation of emergent technology including Navy Virtual Internet (NVI). Conclude FAMIS interface testing of Smart-push/Warrior-pull and P-MUL broadcast. Conduct integration and evaluation of messaging High Assurance Guard (HAG). Conduct fleet developmental testing of SMS.

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FY 2000 President's Budget Estimates

Exhibit R-2a, RDT&E,N Project Justification

Date: FEB 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204163N

PROJECT NUMBER: (X0725)

PROGRAM ELEMENT TITLE: FleetCommunications

PROJECT TITLE: Communication  
Automation

PROGRAM CHANGE SUMMARY: FY 98: Reflects a \$-19K SBIR transfer, a \$-836K BTR reduction, and \$-37K miscellaneous reductions. FY 99-00: Reflects \$-698K reduction due to C4I RDT&E Expenditure Carryover and \$-10K miscellaneous reductions.

B. OTHER PROGRAM FUNDING SUMMARY:

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To Complete	Total Cost
OPN Line 3050 – Ship Comm Auto - NAVMACS										
	5,396	23,698	18,679						CONT	CONT
O&MN 4A6M – NAVMACS										
	600	600	1,491						CONT	CONT

C. Acquisition Strategy: N/A

D. Schedule Profile: N/A

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FY 2000 President's Budget Estimates

Exhibit R-3, RDT&E,N Project Cost Analysis

Date: FEB 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204163N

PROJECT NUMBER: (X0725)

Exhibit R-3 Cost Analysis (page 1)									Date: February 1999			
APPROPRIATION/BUDGET ACTIVITY 7				PROGRAM ELEMENT Fleet Communications 0204163N					PROJECT NAME AND NUMBER: X0725 Communications Automation			
Cost Categories	Contract Method & Type	Performing Activity & Location	Total FY98 & PYs Cost	FY99 Cost	FY99 Award Date	FY00 Cost	FY00 Award Date	FY01 Cost	FY01 Award Date	Cost To Complete	Total Cost	Target Value of Contract
240 Engineering Development	WX	SSC, San Diego	708	493	12/98	150	12/99			CONT	CONT	CONT
240 Engineering Development	CPFF	Lockheed Martin	0	0		100	12/99			CONT	CONT	CONT
240 Engineering Development	Various	Various Labs	0	120	12/98	0				CONT	CONT	CONT
240 Engineering Development	WX	SSC Charleston	0	950	12/98	540	12/99			CONT	CONT	CONT
240 Engineering Development	CPFF	SEMCOR	0	145	12/98	125	12/99			CONT	CONT	CONT
Subtotal Product Development			708	1,708		915						
Remarks:												
Subtotal Support												
Remarks:												

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Exhibit R-3, RDT&E,N Project Cost Analysis

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Exhibit R-3, RDT&E, N Project Cost Analysis

Date: FEB 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204163N

PROJECT NUMBER: (X0725)

Cost Categories	Contract Method & Type	Performing Activity & Location	FY 98 and Prior	FY99 Cost	FY99 Award Date	FY00 Cost	FY00 Award Date	FY01 Cost	FY01 Award Date	Cost To Complete	Total Cost	Target Value of Contract
400 System T&E	Various	Various	0	0	Var	150	Var			CONT	CONT	CONT
Subtotal T&E				0		150						
Remarks												
210 Project Management	WX	SSC, San Diego		90	12/99	82	12/99			CONT	CONT	CONT
Subtotal Management				90		82						
Remarks												
Total Cost			708	1,798		1,147						
Remarks												

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Exhibit R-3, RDT&E,N Project Cost Analysis

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## FY 2000 President's Budget Estimates

Exhibit R-2a, RDT&E,N Project Justification

Date: FEB 1999

BUDGET ACTIVITY: 7                    PROGRAM ELEMENT: 0204163N                    PROJECT NUMBER: (X2074)  
   PROGRAM ELEMENT TITLE:                    PROJECT TITLE: Communication  
   FleetCommunications                    Support Systems

Cost (\$ in Thousands)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
X2074 Communication Support Systems	1,505	0	0	0	0	0	0	0	0	0

### A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION

(U) This project was an initiative to develop the Copernicus architecture and implementation concept, an integrated Navy information system architecture based on shared use of links and multimedia networks. It provides increased communication survivability, throughput and security. The Copernicus system concept further integrates the approach to research, development, acquisition, and deployment of a total Command, Control and Communications Intelligence (C3I) system supporting Navy missions. The work performed was a system engineering effort that generated engineering solutions and guidelines, prototyping and early operational capabilities, and transition plans for incremental fielding involving all current and planned Navy communication systems.

### (U) PROGRAM ACCOMPLISHMENTS AND PLANS:

#### 1. (U) FY 1998 ACCOMPLISHMENTS:

- (U) (\$72K) Built, tested, demonstrated and supported fielding of JMCOMS Build 3. (Consisting of various ship and shore versions of the Automated Digital Network System (ADNS)).
- (U) (\$1,433) Built, tested, demonstrated and supported fielding of ADNS Afloat Build 2.0 and Submarine Build 2.0 which is a segment of JMCOMS Build 3.

#### 2. (U) FY 1999 PLAN: N/A

#### 3. (U) FY 2000 PLAN: N/A

(U) CHANGE SUMMARY EXPLANATION: FY 1998: Reflects a \$-40K SBIR transfer, BTR reduction -\$1,081K, C41 RDT&E Expenditure Carryover -\$70K, FY98 Update -\$459K and a Pending Reprogramming of +\$1,409K.

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Exhibit R-2a, RDT&E,N Project Justification (X2074)

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FY 2000 President's Budget Estimates

Exhibit R-2a, RDT&E,N Project Justification

Date: FEB 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204163N

PROJECT NUMBER: (X2074)

PROGRAM ELEMENT TITLE:

PROJECT TITLE: Communication

FleetCommunications

Support Systems

(U) Schedule: Not applicable.

(U) Technical: Not applicable.

B. (U) OTHER PROGRAM FUNDING SUMMARY: N/A

(U) RELATED RDT&E,N: PE 0205604N (Tactical Data Links)

PE 0303109N (Satellite Communications)

PE 0303140N (Information Systems Security Plan)

C. (U) ACQUISITION STRATEGY: Not applicable.

D. (U) SCHEDULE PROFILE: Not applicable.

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Exhibit R-2a, RDT&E,N Project Justification (X2074)

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 FY 2000 President's Budget Estimates

Exhibit R-2a, RDT&E,N Project Justification

Date: FEB 1999

BUDGET ACTIVITY: 7      PROGRAM ELEMENT: 0204163N      PROJECT NUMBER: X1083  
 PROGRAM ELEMENT TITLE: FleetCommunications      PROJECT TITLE: Shore to Ship  
 Communication System

Cost (\$ in Thousands)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
X1083 Shore to Ship Communications System	11,830	13,592	8,108	7,763	6,898	7,090	7,257	7,427	CONT.	CONT.

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This project develops communications systems elements which provide positive command and control of deployed ballistic missile submarines (SSBNs). This program provides enhancements to the shore-to-ship transmitting systems, shipboard receiver systems, and development of the Submarine Low Frequency (LF)/Very Low Frequency (VLF) Versa Module Eurocard (VME) Receiver (SLVR) System (formerly the Advanced VLF/LF VME Receiver (AVR) System). Continuing evaluation of this communications system is provided via the Strategic Communications Assessment Program (SCAP). Fixed VLF/LF develops an energy efficient, solid state, power amplifier replacement (SSPAR) for the VLF shore based transmitters of the Submarine Broadcast System, investigates improvement of the radio frequency high voltage insulators, bushings and antenna components used in these stations through the High Voltage Insulator Program (HVIP) and measures and signal propagation through the Coverage Prediction Improvement Program (CPIP).

(U) PROGRAM ACCOMPLISHMENTS AND PLANS:

FY 1998 ACCOMPLISHMENTS:

- (\$350) Continued High Voltage and antenna component development and test.
- (\$6,257) Completed SLVR OPEVAL, Milestone III, and continue integration and laboratory test of the KG-38 replacement and SLVR P3I.
- (\$1,345) SCSS Phase II integration.
- (\$3,624) Continued SCAP and continuing evaluation (CEP)
- (\$254) Developed and updated Naval Command, Control, Communications, Computers, Intelligence, Sensors and Reconnaissance (C4ISR) implementation guidance.

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Exhibit R-2a, RDT&E,N Project Justification (X1083)

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FY 2000 President's Budget Estimates

Exhibit R-2a, RDT&E,N Project Justification

Date: FEB 1999

BUDGET ACTIVITY: 7      PROGRAM ELEMENT: 0204163N      PROJECT NUMBER: X1083  
PROGRAM ELEMENT TITLE: FleetCommunications      PROJECT TITLE: Shore to Ship  
Communication System

FY 1999 PLAN:

- (\$257) Continue high voltage and antenna component development and test.
- (\$6,074) Develop the ELF, Signal Processing and KOV-17 integration into SLVR.
- (\$898) Complete SCSS Phase II integration.
- (\$3,634) Continue SCAP and conduct continuing evaluations (CEP).
- (\$2,729) Install and test SSPAR Engineering and Manufacture Development Model at NCTAMSLANT Det, La Moure, N.D.

FY 2000 PLAN:

- (\$357) Continue high voltage and antenna component development and test.
- (\$2,922) Continue development of the ELF and Signal Processing integration into SLVR..
- (\$1,858) Begin SCSS 01.0 Phase integration and implementation.
- (\$2,971) Continue SCAP and conduct continuing evaluations (CEP).

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Exhibit R-2a, RDT&E,N Project Justification (X1083)

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Exhibit R-2a, RDT&E,N Project Justification

Date: FEB 1999

BUDGET ACTIVITY: 7      PROGRAM ELEMENT: 0204163N      PROJECT NUMBER: X1083  
 PROGRAM ELEMENT TITLE: FleetCommunications      PROJECT TITLE: Shore to Ship  
 Communication System

(U) PROGRAM CHANGE SUMMARY: FY 1998: Reflects a \$-188K SBIR reduction, a\$-355K BTR reduction, and \$-161K miscellaneous reductions and a Pending Reprogramming of +\$400K.. FY 99-00: Reflects a \$+300K increase due to realignment of TACAMO funding to CEP , CAAS reduction -\$97K and \$-60K miscellaneous reductions.

**B. (U) OTHER PROGRAM FUNDING SUMMARY**

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To Complete	Total Cost
*OPN Line 3107 Shore LF	7,456	12,975	36,361						CONT	CONT
OPN Line 3147 Advanced VLF Receiver	7,353	17,100	0						CONT	CONT
O&MN 4A6M	21,360	16,202	18,378						CONT	CONT

**\*This program consolidates OPN P-1 Line Item Advanced VLF Receiver beginning in FY00.**

**C. (U) ACQUISITION STRATEGY:**

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>
Program Milestones	3Q SLVR MS III		
T&E Milestones	1Q SLVR OPEVAL (OT-IIB)	1Q SLVR P3I (OT-III)	

D. (U) SCHEDULE PROFILE: See paragraph C.

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Exhibit R-2a, RDT&E,N Project Justification (X1083)

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 FY 2000 President's Budget Estimates

Exhibit R-3, RDT&E,N Project Cost Analysis

Date: FEB 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204163N

PROJECT NUMBER: X1083

Cost Categories	Contract Method & Type	Performing Activity & Location	FY 98 and Prior	FY99 Cost	FY99 Award Date	FY00 Cost	FY00 Award Date	FY01 Cost	FY01 Award Date	Cost To Complete	Total Cost	Target Value of Contract
240 Engineering Support	CPIF	Rockwell, Richardson, TX	13,468	2,729	12/93	0	12/93			\$21.1M		\$21.1M
240 Engineering Support	CPFF	APL/JHU Baltimore, MD	16,826	3,634	10/97	2,971	10/99			CONT	CONT	CONT
240 Engineering Support	WR	NCCOSC, San Diego, CA	23,494	5,538	10/95	2,661	10/95			CONT	CONT	N/A
240 Engineering Support	WR	Miscellaneous Labs, NUWC	3,786	898	10/95	1,858	10/95			CONT	CONT	N/A
240 Engineering Support	WR	U.S. Army, Monmouth, NJ	3,172	0	2/96	0	N/A				0	N/A
240 Engineering Support	Various	Various	0	0	N/A	0	N/A				0	
Subtotal Product Development			60,746	12,799		7,490						
Remarks:												
Subtotal Support												
Remarks												

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Exhibit R-3, RDT&E,N Project Cost Analysis

Date: FEB 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204163N

PROJECT NUMBER: X1083

Cost Categories	Contract Method & Type	Performing Activity & Location	FY 98 and Prior	FY99 Cost	FY99 Award Date	FY00 Cost	FY00 Award Date	FY01 Cost	FY01 Award Date	Cost To Complete	Total Cost	Target Value of Contract
400 System T&E	Various	Various	400	0	N/A	0	N/A					
Subtotal T&E			400	0		0						
Remarks												
210 Program Management	Various	Various	2,241	793	N/A	618	N/A			CONT		
Subtotal Management			2,241	793		618						
Remarks												
Total Cost			63,387	13,592		8,108						
Remarks												

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Exhibit R-3, RDT&E,N Project Cost Analysis

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FY 2000 President's Budget Estimates

Exhibit R-2a, RDT&E,N Project Justification

Date: FEB 1999

BUDGET ACTIVITY: 7      PROGRAM ELEMENT: 0204163N      PROJECT NUMBER: X0795  
PROGRAM ELEMENT TITLE: FleetCommunications      PROJECT TITLE: MEECN

Cost (\$ in Thousands)	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to Complete	Total Cost
X0795 MEECN	452	722	692	706	719	733	750	767	CONT	CONT

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION

Support of Minimum Essential Emergency Communications Network (MEECN). MEECN is the Tri-Service transmission system which ensures delivery of Emergency Action Messages (EAMs) to our strategic platforms. Because of substantial downsizing in the number of MEECN assets, such as the CINC Airborne Command Post (ABNCP) fleet, it is necessary to improve the range, timeliness and reliability of MEECN communications to maintain connectivity to the platforms. This project identifies, researches, and develops improvements to the MEECN primarily in the Very Low Frequency and Low Frequency (VLF/LF) ranges of MEECN. The MEECN Message Processing Mode (MMPM), which reduces transmission time while improving message delivery reliability at greater ranges, was developed under this project and is being implemented in the MEECN VLF/LF Systems. The new High Data Rate (HIDAR) mode, which greatly reduces message transmission time while providing the performance of low data rate modes, has been deployed. Potential improvements in mode design and signal processing are continually being investigated for MEECN application.

FY 1998 ACCOMPLISHMENTS:

- (\$212) Completed MITB development.
- (\$146) Continued Turbo Code application to MEECN Modes.
- (\$50) Continued atmospheric noise data collection and analysis.
- (\$20) Supported SLVR and MMRT MMPM and HIDAR certification testing in the MITB.
- (\$15) Continued crypto replacement coordination.
- (\$9) Developed and updated Naval Command, Control, Communications, Computers, Intelligence, Sensors and Reconnaissance (C4ISR) implementation guidance.

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Exhibit R-2a, RDT&E,N Project Justification (X0795)

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Exhibit R-2a, RDT&E,N Project Justification

Date: FEB 1999

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0204163N

PROJECT NUMBER: X0795

PROGRAM ELEMENT TITLE: FleetCommunications

PROJECT TITLE: MEECN

FY 1999 PLAN:

- (\$291) Continue Turbo Code application to MEECN Modes.
- (\$215) Initiate development of improved MEECN Mode.
- (\$161) Initiate study to integrate NONAP and Signal Separator AJ algorithms.
- (\$40) Investigate HIDAR/Block II compatibility.
- (\$15) Continue crypto replacement coordination.

FY 2000 PLAN:

- (\$306) Complete Turbo Code application to MEECN Modes.
- (\$204) Continue development of improved MEECN Mode.
- (\$167) Continue study to integrate NONAP and Signal Separator AJ algorithms.
- (\$15) Continue crypto replacement coordination.

(U) PROGRAM CHANGE SUMMARY: FY 98: Reflects a \$-12K SBIR reduction, a \$-6K BTR reduction, and \$-11K miscellaneous reductions. FY 99-00: Reflects \$-7K miscellaneous reductions.

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Date: FEB 1999

BUDGET ACTIVITY: 7      PROGRAM ELEMENT: 0204163N      PROJECT NUMBER: X0795  
PROGRAM ELEMENT TITLE: FleetCommunications      PROJECT TITLE: MEECN

**B. (U) OTHER PROGRAM FUNDING SUMMARY**

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	To Complete CONT	Total Cost CONT
O&MN 4A6M	312	352	715							

C. (U) ACQUISITION STRATEGY: Not applicable.

D. (U) SCHEDULE PROFILE: Not applicable.

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