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National Security Telecommunications Advisory Committee Reports [3 of 4]

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John O'Neil



NATIONAL SECURITY TELECOMMUNICATIONS ADVISORY COMMITTEE

SEPTEMBER 22, 1988

FOR FURTHER INFORMATION
CONTACT:
MANAGER, NATIONAL
COMMUNICATIONS SYSTEM
WASHINGTON, D.C. 20305
ATTN: NCS-JS

THE WHITE HOUSE

WASHINGTON

July 11, 1988

Dear Rocco:

I have received the National Security Telecommunications Advisory Committee (NSTAC) VIII Executive Report and, once again, commend the Committee on its exemplary efforts. The Committee has served the Nation well, and I will urge my successor to continue to seek the Committee's counsel on national security emergency preparedness telecommunications.

Our highest national security emergency preparedness telecommunications priority continues to be implementation of the Telecommunications Services Priority System, and the Committee's continued advice and assistance is vital. In a related matter, I ask the Committee's assistance in determining the best procedures for implementing a government-wide approach for obtaining essential service protection for key officials in times of national emergencies.

A survivable and enduring national telecommunications management infrastructure is a vital component of our overall national security emergency preparedness readiness and continuity of government operations. I have approved the National Telecommunications Management Structure Implementation Concept and have requested Secretary Carlucci to assure a robust and enduring communications capability for the structure.

The work of the joint mobilization group supports our highest national security emergency preparedness priorities, including the development of a graduated mobilization response capability. I agree that government and

industry should continue to monitor the potential effects of personnel call-ups. I also agree that a mechanism should be established to monitor telecommunications industry dependence on foreign sources for identified government mobilization needs.

The Committee's continuing investigation of ways to protect sensitive but unclassified information in the private sector is greatly appreciated. I recently signed legislation that should provide a policy framework for completion of the Committee's work in this important area.

Your assessments of telecommunications systems survivability and the applicability of new network technologies will provide valuable information for continued development of national-level national security emergency preparedness telecommunications programs.

Each member of the Committee can take pride in the enduring record of accomplishment the Committee has established. Thank you, Rocco, for the leadership you have provided over the past year. I look forward to once again conveying my thanks in person at the Committee's upcoming meeting in Washington.

Sincerely,

A handwritten signature in dark ink, reading "Ronald Reagan". The signature is written in a cursive style with a large, stylized "R" at the beginning.

Mr. Rocco J. Marano
Chairman, National Security
Telecommunications Advisory
Committee
290 West Mt. Pleasant Avenue
Livingston, New Jersey 07039



**NATIONAL SECURITY
TELECOMMUNICATIONS
ADVISORY
COMMITTEE**

SEPTEMBER 22, 1988

BUSINESS SESSION AGENDA

NATIONAL SECURITY TELECOMMUNICATIONS ADVISORY COMMITTEE (NSTAC)

BUSINESS SESSION - AGENDA

SEPTEMBER 22, 1988

8:30 a.m.	CALL TO ORDER	MR. MARANO, CHAIRMAN
	WELCOMING REMARKS	SECRETARY CARLUCCI
8:40 a.m.	OPENING REMARKS	MR. MARANO, CHAIRMAN
8:45 a.m.	REVIEW OF GOVERNMENT ACTIVITIES	LTG MYERS, NCS
9:00 a.m.	REVIEW OF ONGOING NSTAC ACTIVITIES	MR. MARANO, CHAIRMAN
9:05 a.m.	INDUSTRY INFORMATION SECURITY (IIS)	MR. SHAW, MCI
9:25 a.m.	TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)	DR. EDWARDS, NTI
9:45 a.m.	BREAK	
10:00 a.m.	TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)	DR. EDWARDS, NTI
10:20 a.m.	NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)	MS. NEWLAND, NCS
10:30 a.m.	TELECOMMUNICATIONS SERVICE PRIORITY (TSP)	MR. BRADSHAW, GTE
10:40 a.m.	COMMERCIAL SATELLITE SURVIVABILITY (CSS)	MR. FLORA, COMSAT
10:50 a.m.	ENERGY	MR. ADAMS, PTI
11:00 a.m.	CLOSING REMARKS	MR. GRIMES, NSC
11:10 a.m.	CLOSED SESSION	MR. MARANO, CHAIRMAN
	TELECOMMUNICATIONS AND COMPUTER SECURITY ISSUES, POLICY AND THREAT	MR. BAYSE, FBI
11:35 a.m.	EFFECT OF INF TREATY ON NSEP TELECOMMUNICATIONS	MR. PATTERSON, NSA
12:00 NOON	ADJOURN	MR. MARANO, CHAIRMAN

REVIEW OF GOVERNMENT ACTIVITIES



National Security
Telecommunications
Advisory Committee

REVIEW OF GOVERNMENT NSEP TELECOMMUNICATIONS ACTIVITIES

SEPTEMBER 22, 1988

NATIONAL COMMUNICATIONS SYSTEM (NCS) ORIGIN

- ESTABLISHED IN 1963 BY PRESIDENT KENNEDY
- ORIGINAL OBJECTIVE TO HAVE ONE TELECOMMUNICATIONS
SYSTEM SERVING ALL FEDERAL USERS

NATIONAL COMMUNICATIONS SYSTEM (NCS) POLICY DEVELOPMENT

- NSEP TELECOMMUNICATIONS POLICY LIMITED THROUGH
THE FIRST FOUR ADMINISTRATIONS
- PRESIDENT CARTER - PRESIDENTIAL DIRECTIVE (PD) 53
- PRESIDENT REAGAN
 - EXECUTIVE ORDER 12382
 - NATIONAL SECURITY DECISION DIRECTIVE (NSDD) 97
 - EXECUTIVE ORDER 12472

NATIONAL COMMUNICATIONS SYSTEMS (NCS)

ACTIVITIES

MAJOR PROGRAMS

- TELECOMMUNICATIONS SERVICE PRIORITY (TSP) SYSTEM *with mosting nsep pgm*
- NATIONAL LEVEL NSEP TELECOMMUNICATIONS PROGRAM (NLP)
 - NATIONWIDE EMERGENCY TELECOMMUNICATIONS SERVICE (NETS)
 - COMMERCIAL NETWORK SURVIVABILITY (CNS)
 - COMMERCIAL SATCOM INTERCONNECTIVITY (CSI)
- NATIONAL COORDINATING CENTER (NCC)
 - NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

NSTAC'S CONTRIBUTION

OTHER PROGRAMS

- FY 87 NCS ANNUAL REPORT

NATIONAL COMMUNICATIONS SYSTEM (NCS) FUTURE

- MUCH WORK REMAINS TO MEET GOALS
- NSTAC IMPORTANT COMPONENT OF FUTURE EFFORT
- NATIONAL COMMUNICATIONS SYSTEM VISION 21 /
TOTAL QUALITY MANAGEMENT CONCEPT
 - EXISTENCE OF EFFECTIVE NSEP TELECOMMUNICATIONS
 - NATIONAL COMMUNICATIONS SYSTEM MISSION TO PROVIDE
LEADERSHIP, SUPPORT AND COORDINATION

INDUSTRY INFORMATION SECURITY (IIS)

National Security
Telecommunications
Advisory Committee



INDUSTRY INFORMATION SECURITY (IIS)

SEPTEMBER 22, 1988

INDUSTRY INFORMATION SECURITY (IIS)

BACKGROUND

- **NATIONAL CONCERN ABOUT INFORMATION AGGREGATION / ACCESSIBILITY**
- **PRESIDENT REQUESTED NSTAC ADDRESS SENSITIVE INFORMATION ON INDUSTRY SYSTEMS**
- **IES WAS CHARGED TO DEVELOP RECOMMENDATIONS ON HOW TO BEST ADDRESS THIS ISSUE**
- **IES ESTABLISHED AN INITIAL IIS TASK FORCE WHICH**
 - **DEVELOPED SUGGESTED TASKS IN THREE AREAS**
 - **DEVELOPED A METHODOLOGY**
 - **RECOMMENDED THE ESTABLISHMENT OF A FOLLOW-ON TASK FORCE**

INDUSTRY INFORMATION SECURITY (IIS)

NSTAC VIII CHARGES TO THE IES

- CONTINUE ASSISTING THE GOVERNMENT BY DEVELOPING RECOMMENDATIONS FOR THE PROTECTION OF SENSITIVE BUT UNCLASSIFIED INFORMATION
- CONTINUE INVESTIGATING
 - MECHANISMS FOR TRANSFER OF INFOSEC INFORMATION TO THE PRIVATE SECTOR
 - METHODS TO USE INFOSEC TECHNOLOGY AND PRODUCTS
 - DEVELOPMENT OF A PROTECTION STRATEGY
 - IMPLICATIONS OF INFOSEC IMPLEMENTATION ON THE TELECOMMUNICATIONS INDUSTRY
- REPORT TO NSTAC IX

INDUSTRY INFORMATION SECURITY (IIS)

MEMBERSHIP

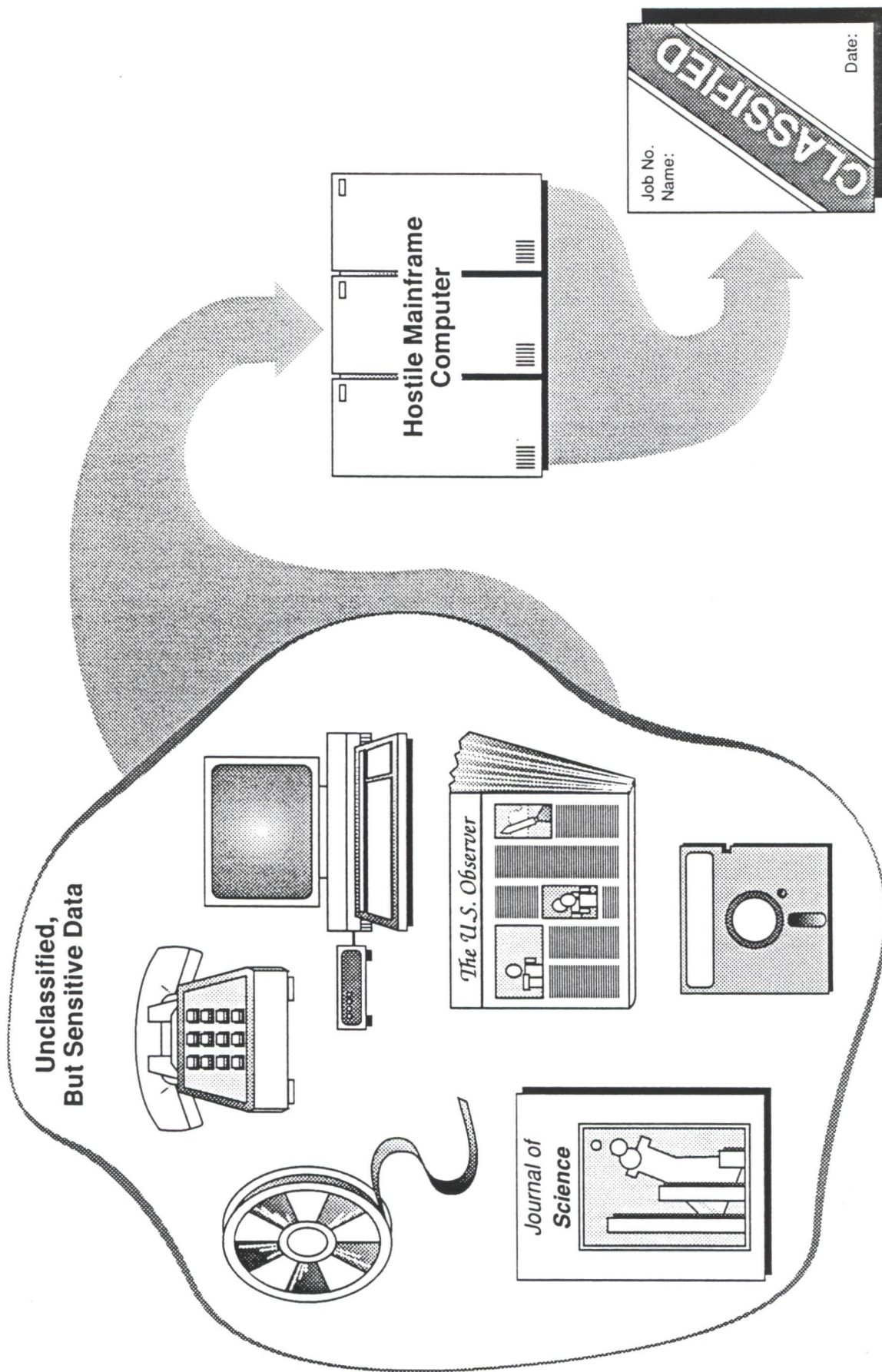
<u>CORPORATION</u>	<u>REPRESENTATIVE</u>
AT&T	JANE HUNTER
BELLCORE	GORDON RAMSEY
CSC	ROBERT STEELE
FAIRCHILD	CHARLES STILES
GE	PAT GLENN
GTE	JIM BEAN
IBM	JOHN PETERS
ITT	JOSEPH GANCIE
MCI	MIKE SHAW, CHAIRMAN
MARTIN MARIETTA	EDWARD GALAVOTTI
NTI	JOHN EDWARDS
ROCKWELL	LAWRENCE MANLY
TRW	STANLEY STAHL

INDUSTRY INFORMATION SECURITY (IIS)

FINAL REPORT ORGANIZATION

- VOLUME I: IIS TASK FORCE FINAL REPORT:
INDUSTRY INFORMATION PROTECTION
- VOLUME II: SURVEY OF GOVERNMENT DEPARTMENTS
AND AGENCIES
IIS TASK FORCE SUPPORTING
DOCUMENTS
- VOLUME III: ANNOTATED BIBLIOGRAPHY

The Mosaic Theory



INDUSTRY INFORMATION SECURITY (IIS)

GOVERNMENT THREAT

- VALUABLE INTELLIGENCE FROM UNCLASSIFIED DATA
- DISCLOSURE TO HOSTILE PARTIES
- ELECTRONIC ACCESS FACILITATES EXPLOITATION

INDUSTRY INFORMATION SECURITY (IIS)

GOVERNMENT POLICY RESPONSE

- JUN 84 NATIONAL COMMUNICATIONS SECURITY INSTRUCTION 6002
(NACSI 6002)
- SEP 84 NATIONAL SECURITY DECISION DIRECTIVE 145 (NSDD-145)
- DEC 85 OFFICE OF MANAGEMENT AND BUDGET CIRCULAR A-130
- OCT 86 NATIONAL TELECOMMUNICATIONS AND INFORMATION SYSTEM
SECURITY COMMITTEE POLICY NO. 2 (NTISSP NO. 2)
- JAN 88 THE COMPUTER SECURITY ACT OF 1987 (P.L. 100-235)

INDUSTRY INFORMATION SECURITY (IIS)

INDUSTRY THREAT

- COMPETITORS
- INSIDERS
 - DISHONEST OR DISGRUNTLED EMPLOYEES
 - HUMAN ERRORS

INDUSTRY INFORMATION SECURITY (IIS)

INDUSTRY RESPONSE TO THE THREAT

- **INDUSTRY PRIORITY -
PROTECTING AGAINST LOSSES FROM INTERNAL THREATS**
- **TELECOMMUNICATIONS SECURITY MEASURES DO NOT
PROTECT AGAINST AUTHORIZED USERS PERFORMING
UNAUTHORIZED ACTIONS**
- **ENCRYPTION OF TELECOMMUNICATIONS MESSAGES
MAY SERVE OTHER BUSINESS INTERESTS BY PROVIDING
AUTHENTICATION AND ERROR DETECTION**

INDUSTRY INFORMATION SECURITY (IIS)

CURRENT PROGRAMS

- **NACSI 6002 EFFORTS**
 - **TELECOMMUNICATION SECURITY PROGRAM PLAN (TSPP)**
 - **DEFENSE ACQUISITION REGULATION (DAR) MODIFICATION**
- **PROTECTED COMMUNICATION ZONES (PCZs)**
- **COMMERCIAL COMSEC ENDORSEMENT PROGRAM (CCEP)**
- **DATA ENCRYPTION STANDARD (DES)**
- **SECURE DATA NETWORK SYSTEM (SDNS) STANDARDS**
- **PRIVATE SYSTEMS WITH CUSTOM PROTECTION TECHNIQUES**

INDUSTRY INFORMATION SECURITY (IIS)

THE CHANGING TECHNOLOGICAL ENVIRONMENT

- IMPACT OF DIGITAL NETWORKS
 - INTEGRATED SERVICES DIGITAL NETWORK (ISDN) & END-TO-END DIGITAL CONNECTIVITY
 - INCREMENTAL COST OF ENCRYPTION DECREASING
 - DEPENDS ON STANDARDIZATION OF DIGITAL PLATFORM

- EMERGENCE OF THE ELECTRONIC OFFICE
 - ELECTRONIC FUNDS TRANSFER (EFT)
 - ELECTRONIC DATA INTERCHANGE (EDI) STANDARDS
 - INTEGRITY AND AUTHENTICATION CONCERNS

INDUSTRY INFORMATION SECURITY (IIS)

CONCLUSIONS

- PROTECTION OF GOVERNMENT SENSITIVE INFORMATION ON PRIVATE SYSTEMS WILL DEPEND UPON GOVERNMENT IMPLEMENTATION INSTRUCTIONS AND SPECIFICATIONS IN GOVERNMENT CONTRACTS.
- LEGISLATIVE AND EXECUTIVE BRANCHES HAVE RECOGNIZED THE VALUE OF INFORMATION AS A STRATEGIC RESOURCE. THE POLICY MECHANISMS NEED CLARIFICATION.
- POLICY BASE (NSDD-145 AND P.L. 100-235) IS NOT PERCEIVED AS BROADLY APPLICABLE. TASK FORCE WAS UNABLE TO IDENTIFY A CONSISTENT POLICY OUTSIDE THE NATIONAL SECURITY ARENA.
- GOVERNMENT CAN SIGNIFICANTLY IMPROVE PROTECTION OF SENSITIVE INFORMATION BY IMPLEMENTING AN EFFECTIVE PROGRAM FOR GOVERNMENT SENSITIVE INFORMATION.
- THE NATIONAL SECURITY THREAT IS NOT AN EFFECTIVE MOTIVATOR FOR THE PRIVATE SECTOR TO PROTECT ITS INFORMATION. FINANCIAL ADVANTAGE AND LOSS MOTIVATE THE PRIVATE SECTOR.

INDUSTRY INFORMATION SECURITY (IIS)

IES RECOMMENDATIONS TO THE NSTAC

- **APPROVE THE FINAL REPORT OF THE IIS TASK FORCE
AND FORWARD THIS REPORT TO THE PRESIDENT**
- **FORWARD APPROVED RECOMMENDATIONS TO THE
PRESIDENT**
- **DEACTIVATE THE IIS TASK FORCE**

INDUSTRY INFORMATION SECURITY (IIS)

PROPOSED NSTAC RECOMMENDATIONS TO THE PRESIDENT

RECOMMENDATIONS TO GOVERNMENT FOR MAJOR ENHANCEMENTS TO
TELECOMMUNICATIONS PROTECTION

- PROVIDE A CONSISTENT POLICY BASE THAT ASSIGNS RESPONSIBILITY
- PROJECT CCEP MARKET ONLY ON GOVERNMENT REQUIREMENTS
- CONTINUE THE PCZ PROGRAM
- STANDARDIZE FUTURE PLATFORMS TO ACCOMMODATE ENCRYPTION
MODULES IN TERMINALS
- UTILIZE OSI AND ISDN STANDARDS IN FUTURE ENCRYPTION SYSTEMS
- AUTHORIZE DES AS A MEANS OF PROTECTING SENSITIVE INFORMATION
- MAKE ANY PRODUCTS TO PROTECT ONLY UNCLASSIFIED SENSITIVE
INFORMATION EXPORTABLE
- CONTINUE INFOSEC EDUCATION PROGRAMS

INDUSTRY INFORMATION SECURITY (IIS)

PROPOSED NSTAC IX CHARGE TO THE IES

DEACTIVATE THE IIS TASK FORCE

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

National Security
Telecommunications
Advisory Committee



TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

SEPTEMBER 22, 1988

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

NSTAC VIII CHARGES TO THE IES

- **CONTINUE REVIEW OF NSTAC TASK FORCE STUDIES /
RECOMMENDATIONS AND GOVERNMENT ACTIONS**
- **CONTINUE STUDY OF NEW TECHNOLOGIES'
APPLICABILITY TO THE SURVIVABILITY OF NSEP
TELECOMMUNICATIONS**
- **ADVISE THE GOVERNMENT IN ITS EFFORTS TO IMPLEMENT
THE NSTAC'S ELECTRIC POWER RECOMMENDATION**
- **DEVELOP RECOMMENDATIONS TO NSTAC ON THE ABOVE
ITEMS**

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

TASK FORCE MEMBERS

DR. JOHN EDWARDS, NORTHERN TELECOM (CHAIRMAN)

AT&T	MR. REG KIDD
BELLCORE	MR. GORDON RAMSEY
CSC	MR. DAVID BROWN
FAIRCHILD	MR. CHARLES STILES
GE	MR. PATRICK GLENN
IBM	DR. GEORGE WEATHERS
ITT	MR. JOSEPH GANCIE
MCI	MR. MIKE SHAW
PTI	MR. FRANK ADAMS
ROCKWELL	MR. GERALD REID
TRT	MR. JOHN DUNLOP
WU	MR. DAVID TREXLER

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

BRIEFING OVERVIEW

- REVIEW OF GOVERNMENT ACTIONS ON PAST NSTAC RECOMMENDATIONS
- *Network Management* NEW TECHNOLOGY STUDY
- PROPOSED NSTAC RECOMMENDATIONS

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

REVIEW OF GOVERNMENT ACTIONS ON PAST NSTAC RECOMMENDATIONS

ISSUE AREA ANALYSES / RECOMMENDATIONS

- **NSTAC VIII**
 - **COMMERCIAL SATELLITE SURVIVABILITY (CSS)**
 - **ELECTROMAGNETIC PULSE (EMP)**
 - **COMMERCIAL NETWORK SURVIVABILITY (CNS)**

- **NSTAC IX**
 - **NATIONAL COORDINATING MECHANISM (NCM)**
 - **AUTOMATED INFORMATION PROCESSING (AIP)**
 - **OVERALL REPORT**

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

REVIEW OF GOVERNMENT ACTIONS

NATIONAL COORDINATING MECHANISM (NCM)

- NATIONAL COORDINATING CENTER (NCC) RELATED RECOMMENDATIONS HAVE BEEN CARRIED OUT PROMPTLY AND EFFECTIVELY
- RECOMMEND THAT:
 - NCS MEMBER AGENCIES BE EFFECTIVELY REPRESENTED IN THE NCC
 - GOVERNMENT SHOULD CONTINUE TO DISSEMINATE NSEP INFORMATION

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

REVIEW OF GOVERNMENT ACTIONS

AUTOMATED INFORMATION PROCESSING (AIP)

- RECOMMENDATIONS REGARDING AIP EMBEDDED IN TELECOMMUNICATIONS ARE BEING ADDRESSED
- RECOMMEND THAT:
 - GOVERNMENT CONSIDER THE IMPLICATIONS OF ALL OPERATIONAL SUPPORT AIP, PARTICULARLY FOR NETWORK MANAGEMENT, RESTORAL AND RECONSTITUTION
 - GOVERNMENT IMPLEMENT AN AWARENESS PROGRAM TO ENHANCE UNDERSTANDING OF THE CRITICALITY AND VULNERABILITIES OF NSEP AIP

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

REVIEW OF GOVERNMENT ACTIONS

OVERALL REPORT

- SUMMARY OF ISSUE AREA ANALYSES AND RECOMMENDATIONS
- FINDINGS AND CONCLUSIONS
- RECOMMENDATIONS

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

COMMERCIAL SATELLITE SURVIVABILITY

CSS ISSUE AREA INITIATIVES	NOT DONE	PLANNED	DOING	DONE	RECOMMENDATIONS TO GOVT.
1&2 ESTABLISH PROGRAM & PROGRAM OFFICE				X	None
3 PLANS AND PROCEDURES - for C-Band - for Ku-Band		X		X	Sustain Effort, Add Ku-Band
4 INTEROPERABILITY - for C-Band - for Ku-Band		X	X		Early Ku-Band Implementation
5 USE DES				X	None
6 COMMAND LINK PROTECTION - policy - antijam	X			X	Address Uplink Jamming
7 CONTROL INTEROPERABILITY			X		None
8 PHYSICAL SECURITY - guidelines - requirements in RFPs	X			X	Incorporate Reqs. in RFPs
9 NUCLEAR SUSCEPTIBILITY OF SPACE SEGMENT				X	None
10 TRANSPORTABLE TERMINAL		X			Reconsider Transportable Terminals
11 TRANSPORTABLE TT&C		X*			Reconsider Transportable TT&C
12 Ku-BAND		X			Emphasize Ku-Band

*A study is planned.

REVIEW OF GOVERNMENT ACTIONS

RECOMMENDATIONS

- THE GOVERNMENT SHOULD CONTINUE TO BUILD ON THE SIGNIFICANT PROGRESS THAT HAS BEEN MADE IN IMPLEMENTING THE ORIGINAL NSTAC RECOMMENDATIONS.
- THE GOVERNMENT SHOULD ALSO:
 - BROADEN THE APPROACH TO INCLUDE ALL LEVELS OF STRESS
 - EXPEDITE Ku-BAND SATELLITE INTEROPERABILITY
 - AUGMENT THE ROLE OF JOINT ACTIVITIES IN DEFENDING NSEP INTERESTS

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

NEW TECHNOLOGY STUDY: NETWORK MANAGEMENT

NETWORK MANAGEMENT SUBGROUP

- **MEMBERS:**

- AT&T (CHAIR), BELLCORE, NORTHERN TELECOM, INC.

- **SCOPE:**

TO STUDY THOSE ASPECTS OF NETWORK MANAGEMENT
CAPABLE OF DIRECTLY SUPPORTING PRIORITY
TREATMENT OF NATIONAL SECURITY EMERGENCY
PREPAREDNESS (NSEP) TRAFFIC.

- **DEFINITION:**

“THOSE FUNCTIONS AND CONTROLS THAT KEEP THE
NETWORK OPERATING NEAR MAXIMUM EFFICIENCY
WHEN UNUSUAL TRAFFIC PATTERNS OR EQUIPMENT
FAILURES WOULD OTHERWISE CAUSE NETWORK
CONGESTION OR INEFFICIENCY.”

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

NEW TECHNOLOGY STUDY: NETWORK MANAGEMENT

INFORMATION SOURCES

- LITERATURE SEARCH
- INDUSTRY AND GOVERNMENT BRIEFINGS
- INDUSTRY INTERVIEWS
- TSS TASK FORCE EXPERTISE

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)
**NEW TECHNOLOGY STUDY: NETWORK
MANAGEMENT**

INTERVIEWS

AT&T

BELL ATLANTIC

BELL SOUTH

GTE

McCAW COMMUNICATIONS, INC.

MCI

NORTHERN TELECOM, INC.

NYNEX

PACIFIC BELL

U.S. SPRINT

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

NEW TECHNOLOGY STUDY: NETWORK MANAGEMENT

CONCLUSIONS

- 
- TECHNICAL CAPABILITIES NECESSARY TO PROVIDE
END-TO-END PRIORITY TREATMENT OF NSEP TRAFFIC
WILL PROBABLY EXIST IN THE NEXT 5 YEARS.
 - DEPLOYMENT OF COMMON CHANNEL SIGNALLING (CCS)
SYSTEM #7 IS KEY TO ENABLE PRIORITY TREATMENT OF
NSEP TRAFFIC IN THE PUBLIC SWITCHED NETWORK (PSN).
 - NETWORK MANAGEMENT CAPABILITIES AND PLANS
VARY WIDELY AMONG CARRIERS.
 - GOVERNMENT PLANS WILL HAVE TO INCORPORATE AND
BUILD UPON THE VARIOUS NETWORK MANAGEMENT
IMPLEMENTATIONS.

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

NEW TECHNOLOGY STUDY: NETWORK MANAGEMENT

RECOMMENDATIONS TO GOVERNMENT

- DEVELOP COMPREHENSIVE UNDERSTANDING OF NETWORK MANAGEMENT ACROSS THE PSN.
- DEVELOP A DETAILED STATEMENT OF REQUIREMENTS.
- DEVELOP A COMPREHENSIVE STRATEGY.
- CONTRACT WITH INDUSTRY TO FORM A JOINT GROUP.
- ALLOCATE THE NECESSARY RESOURCES TO WORK THE RELATED STANDARDS ISSUES.
- ESTABLISH A FULL TIME NETWORK MANAGEMENT FUNCTION AND SELECT A PERMANENT PROGRAM NAME.

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

IES RECOMMENDATIONS TO THE NSTAC

- **AGREE TO FORWARD TSS TASK FORCE REPORTS TO
THE PRESIDENT**
- **APPROVE PROPOSED NSTAC RECOMMENDATIONS TO
THE PRESIDENT**
- **APPROVE PROPOSED NSTAC IX CHARGES TO THE IES**

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

PROPOSED NSTAC RECOMMENDATIONS TO THE PRESIDENT

REVIEW OF GOVERNMENT ACTIONS ON PAST NSTAC RECOMMENDATIONS

- THE GOVERNMENT SHOULD CONTINUE TO BUILD ON THE SIGNIFICANT PROGRESS THAT HAS BEEN MADE IN IMPLEMENTING THE ORIGINAL NSTAC RECOMMENDATIONS.
- THE GOVERNMENT SHOULD ALSO:
 - BROADEN THE APPROACH TO INCLUDE ALL LEVELS OF STRESS
 - EXPEDITE KU-BAND SATELLITE INTEROPERABILITY
 - AUGMENT THE ROLE OF JOINT ACTIVITIES IN DEFENDING NSEP INTERESTS

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

PROPOSED NSTAC RECOMMENDATIONS TO THE PRESIDENT

NEW TECHNOLOGY STUDY - NETWORK MANAGEMENT

- DEVELOPMENTS IN NETWORK MANAGEMENT OVER THE NEXT FEW YEARS WILL AFFORD THE GOVERNMENT THE OPPORTUNITY TO REALIZE MANY OF ITS NSEP TELECOMMUNICATIONS GOALS. ACCORDINGLY, THE GOVERNMENT SHOULD DEVELOP A COMPREHENSIVE UNDERSTANDING OF NETWORK MANAGEMENT ACROSS THE PUBLIC SWITCHED NETWORK. WITH SUCH AN UNDERSTANDING AS A BASIS, THE GOVERNMENT SHOULD:
 - DEVELOP A DETAILED STATEMENT OF REQUIREMENTS AND STRATEGY
 - CONTRACT WITH INDUSTRY TO FORM A JOINT GROUP CHARGED WITH DEVELOPING AN APPROACH FOR PROVIDING APPROPRIATE NSEP FEATURES IN THE NETWORK
 - ALLOCATE SUFFICIENT RESOURCES TO WORK RELATED STANDARDS ISSUES

NATIONAL SECURITY TELECOMMUNICATIONS ADVISORY COMMITTEE (NSTAC)

PROPOSED NSTAC IX CHARGES TO THE IES

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS)

- CONTINUE REVIEW OF NSTAC TASK FORCE STUDIES /
RECOMMENDATIONS AND GOVERNMENT ACTIONS
- CONTINUE STUDY OF NEW TECHNOLOGIES'
APPLICABILITY TO THE SURVIVABILITY OF NSEP
TELECOMMUNICATIONS
- ESTABLISH A NETWORK MANAGEMENT SUBGROUP TO
ASSIST THE GOVERNMENT IN IMPLEMENTING THE
NSTAC'S NETWORK MANAGEMENT RECOMMENDATIONS
- REVIEW GOVERNMENT'S REQUEST FOR ASSISTANCE
IN DEVELOPING GOVERNMENT-WIDE APPROACH FOR
OBTAINING ESSENTIAL SERVICE PROTECTION
- DEVELOP RECOMMENDATIONS TO NSTAC ON THE
ABOVE ITEMS

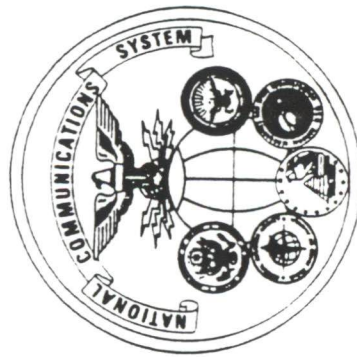
TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)



TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

JOINT INDUSTRY-GOVERNMENT
TELECOMMUNICATIONS INDUSTRY
MOBILIZATION (TIM) GROUP

SEPTEMBER 22, 1988



TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

PURPOSE

- **MAINTENANCE OF CAPABILITY TO RAPIDLY INCREASE PRODUCTION OF SUPPLIES AND EQUIPMENT TO SUPPORT AND SUSTAIN CONVENTIONAL MILITARY FORCES "SUPPORTS DETERRENCE AND PROVIDES THE ABILITY FOR A TIMELY AND FLEXIBLE RESPONSE TO THE FULL RANGE OF PLAUSIBLE THREATS."**

- PRESIDENT'S NATIONAL SECURITY STRATEGY, JANUARY 1988

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

NSTAC VIII CHARGES TO THE IES

- CONTINUE TO ASSIST THE NCS IN STUDYING AND RECOMMENDING ACTIONS REGARDING THE SEVEN MOBILIZATION SUBJECTS
- CONTINUE TO SUPPORT EXERCISE PARTICIPATION
- PLAN TO COMPLETE TIM STUDY BY NSTAC X

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

JOINT INDUSTRY - GOVERNMENT TIM GROUP

MEMBERS

AT&T	- JOHN P. MILLER	DOD/OJCS - DONALD KRAFT
BELLCORE	- W. GORDON RAMSEY	DOJ/FCC - LUIN FITCH
MARTIN MARIETTA	- JOHN R. HOCKER	FEMA - STEPHEN F. HOOD
NORTHERN TELECOM	- JOHN S. EDWARDS	GSA - JORDAN B. BRILLIANT
ROCKWELL	- JAMES T. CARTER, JR.	NTIA/DOC - ARTHUR J. ALTENBURG

OTHER PARTICIPATING ORGANIZATIONS

MCI	DOS
ITT	
CONTEL ASC	
GTE	

CHAIR: TERRENCE N. DANNER, OMNCS

VICE-CHAIR: JOHN S. EDWARDS, NTI

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

BRIEFING OVERVIEW

- EXERCISE ACTIVITIES
- TIM SUBJECT REPORTS
 - TELECOMMUNICATIONS SERVICE SURGE REQUIREMENTS (STATUS REPORT)
 - MAINTENANCE OF STOCKPILES AND INVENTORIES (FINAL REPORT)
 - GOVERNMENT AND INDUSTRY MOBILIZATION MANAGEMENT STRUCTURE (FINAL REPORT)
- PROPOSED NSTAC RECOMMENDATIONS

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

EXERCISE ACTIVITIES

- **POWER SWEEP '87: OCTOBER 1986**
- **PROUD SCOUT '88 / REX - 88 ALPHA: NOVEMBER 1987**
- **RESULTS AND INSIGHTS REFLECTED IN SUBJECT REPORTS**

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

TELECOMMUNICATIONS SERVICE SURGE REQUIREMENTS: PRELIMINARY CONCLUSIONS

- TELECOMMUNICATIONS INDUSTRY ABLE - ON AN OVERALL BASIS - TO MEET EXPECTED INCREASES IN DEMAND
- PROBLEMS IN MEETING PARTICULAR GOVERNMENT NEEDS COULD ARISE; REQUIREMENTS NEED TO BE PRE-IDENTIFIED
- INDUSTRY NETWORK MANAGEMENT CONTROL SYSTEMS ARE ESSENTIAL TO EFFECTIVE MOBILIZATION RESPONSE

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

TELECOMMUNICATIONS SERVICE SURGE REQUIREMENTS: RECOMMENDATION

- THE NSTAC TSS TASK FORCE SHOULD CONSIDER THE SPECIFIC IMPACT OF MOBILIZATION SURGE REQUIREMENTS IN THEIR STUDY OF NETWORK MANAGEMENT TECHNIQUES, CAPABILITIES, AND ISSUES, MAKING USE OF THE INFORMATION DEVELOPED TO DATE BY THE JOINT GROUP.

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

TELECOMMUNICATIONS SERVICE SURGE REQUIREMENTS: NEXT STEP

MOBILIZATION CENTER QUESTIONNAIRE

- **INSTALLATION / FACILITY TELEPHONE SYSTEM**
- **INSTALLATION CABLE DISTRIBUTION SYSTEM**
- **SECURE VOICE SERVICE**
- **FACSIMILE SERVICE**
- **OTHER LEASED OR COMMERCIAL SERVICES**
- **CONTRACTOR SERVICES**
- **PERSONNEL**
- **MOBILIZATION SUPPORT PLANNING**

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

MAINTENANCE OF STOCKPILES AND INVENTORIES: FINDINGS / CONCLUSIONS

- NO DEDICATED NSEP TELECOMMUNICATIONS STOCKPILES CURRENTLY EXIST:
 - GOVERNMENT MAINTAINS LARGE SPECIAL-PURPOSE INVENTORIES, E.G., NATIONAL DEFENSE STOCKPILE
 - TELECOMMUNICATIONS INDUSTRY SEEKS TO MINIMIZE INVENTORIES
- INVENTORY MINIMIZATION INCREASES EFFICIENCY AND OUTPUT
- INDUSTRY, HOWEVER, MAY BE MORE VULNERABLE TO SUPPLY DISRUPTIONS, E.G., FOREIGN SOURCE CUTOFF

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

**MAINTENANCE OF STOCKPILES AND
INVENTORIES: FINDINGS / CONCLUSIONS (CONT'D)**

- NSEP STOCKPILES WOULD BE:
 - COSTLY
 - COMPLEX
 - VULNERABLE TO OBSOLESCENCE
 - POTENTIALLY DAMAGING TO INDUSTRY COMPETITIVE POSITION
- NO COMPELLING NEED FOR NSEP STOCKPILES; CONTRACTING MECHANISMS CAN BE USED TO ADDRESS SUPPLY PROBLEMS
- NO FURTHER ACTION / STUDY NEEDED

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

**MAINTENANCE OF STOCKPILES AND
INVENTORIES: RECOMMENDATION**

- **ALTHOUGH NO COMPELLING NEED FOR NSEP STOCKPILES HAS BEEN FOUND IN THIS STUDY, THE CONTRACTING MECHANISMS THAT ARE CURRENTLY AVAILABLE AND IN USE FOR REQUIRING SPECIFIED INVENTORY LEVELS OF CERTAIN CRITICAL ITEMS SHOULD BE CONSIDERED IN TELECOMMUNICATIONS MOBILIZATION POLICY AND PLANNING.**

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

MOBILIZATION MANAGEMENT STRUCTURE: FINDINGS / CONCLUSIONS

- **FUNDAMENTAL ELEMENTS NECESSARY FOR EFFECTIVE
TELECOMMUNICATIONS MOBILIZATION MANAGEMENT
IN PLACE:**
 - **EO 12472 AND NCC OPERATING CHARTER**
 - **GOVERNMENT EMERGENCY PROVISIONING REGULATIONS
AND PROCEDURES**
 - **INDUSTRY EMERGENCY RESPONSE PROCEDURES**
 - **JOINT INDUSTRY-GOVERNMENT NCC**

OVERALL SCHEDULE

I. MOBILIZATION SUBJECTS

- (1) PERSONNEL ISSUES**
- (2) SERVICE SURGE REQUIREMENTS**
- (3) MOBILIZATION MANAGEMENT STRUCTURE**
- (4) DEPENDENCE ON FOREIGN SOURCES**
- (5) INFRASTRUCTURE SYSTEMS**
- (6) STOCKPILES / INVENTORIES**
- (7) JURISDICTIONAL ISSUES**

II. EXERCISE ACTIVITIES

III. FINAL REPORT

KEY:

	STUDY INITIATED
	STUDY COMPLETED
	STATUS REPORT
	EXERCISE

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

IES RECOMMENDATIONS TO THE NSTAC

- AGREE TO FORWARD JOINT TIM GROUP REPORTS TO THE PRESIDENT
- APPROVE PROPOSED NSTAC RECOMMENDATIONS TO THE PRESIDENT
- APPROVE PROPOSED NSTAC IX CHARGES TO THE IES

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

PROPOSED NSTAC RECOMMENDATIONS TO THE PRESIDENT

TELECOMMUNICATIONS SERVICE SURGE REQUIREMENTS

- NONE

MAINTENANCE OF STOCKPILES AND INVENTORIES

- ALTHOUGH NO COMPELLING NEED FOR NSEP STOCKPILES HAS BEEN FOUND IN THIS STUDY, THE CONTRACTING MECHANISMS THAT ARE CURRENTLY AVAILABLE AND IN USE FOR REQUIRING SPECIFIED INVENTORY LEVELS OF CERTAIN CRITICAL ITEMS SHOULD BE CONSIDERED IN TELECOMMUNICATIONS MOBILIZATION POLICY AND PLANNING.

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

PROPOSED NSTAC RECOMMENDATIONS TO THE PRESIDENT

MOBILIZATION MANAGEMENT STRUCTURE: OVERALL FEDERAL GOVERNMENT

- THE NATIONAL SECURITY COUNCIL SHOULD, AS PART OF ITS NATIONAL SECURITY EMERGENCY PREPAREDNESS AND RESPONSE PLANNING EFFORT, ENSURE THE TIMELY DEFINITION, DOCUMENTATION, AND IMPLEMENTATION OF AN OVERALL FEDERAL GOVERNMENT STRUCTURE AND PLAN FOR MOBILIZATION MANAGEMENT.
- THE OVERALL FEDERAL GOVERNMENT MOBILIZATION MANAGEMENT STRUCTURE AND PLAN SHOULD:
 - SPECIFY RELATIONSHIP OF TELECOMMUNICATIONS MOBILIZATION MANAGEMENT STRUCTURE DEFINED IN EO 12472 TO THE OVERALL FEDERAL GOVERNMENT MOBILIZATION MANAGEMENT STRUCTURE
 - IDENTIFY THE MECHANISMS TO BE USED TO INTEGRATE MOBILIZATION MANAGEMENT ACTIVITIES ACROSS FUNCTIONAL/RESOURCE AREAS
 - PROVIDE FOR THE ESTABLISHMENT OF REGIONAL MOBILIZATION MANAGEMENT CAPABILITIES

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

PROPOSED NSTAC RECOMMENDATIONS TO THE PRESIDENT

MOBILIZATION MANAGEMENT STRUCTURE **(CONT'D):**

TELECOMMUNICATIONS MOBILIZATION MANAGEMENT STRUCTURE

- THE NATIONAL COMMUNICATIONS SYSTEM SHOULD:
 - DEFINE, DOCUMENT, AND IMPLEMENT A COMPREHENSIVE APPROACH TO AND STRUCTURE FOR TELECOMMUNICATIONS MOBILIZATION MANAGEMENT
 - INCORPORATE SPECIFIC PROVISIONS FOR THE PERFORMANCE, COORDINATION, AND INTEGRATION OF MOBILIZATION-RELATED MANAGEMENT FUNCTIONS AND ACTIVITIES IN NSEP TELECOMMUNICATIONS PLANS AND PROCEDURES
- THE NATIONAL COMMUNICATIONS SYSTEM SHOULD ALSO ADDRESS THE SPECIFIC MOBILIZATION MANAGEMENT ISSUES IDENTIFIED BY THE JOINT TIM GROUP

TELECOMMUNICATIONS INDUSTRY MOBILIZATION (TIM)

PROPOSED NSTAC IX CHARGES TO THE IES

- CONTINUE TO ASSIST THE NCS IN STUDYING
AND RECOMMENDING ACTIONS REGARDING THE
SEVEN MOBILIZATION SUBJECTS
- PLAN TO COMPLETE TIM STUDY BY NSTAC X

NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

National Security
Telecommunications
Advisory Committee



NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

SEPTEMBER 22, 1988

NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

NSTAC VIII CHARGES TO THE IES

- **CONTINUE TO SERVE AS THE PLANNING FORUM
FOR NTMS IN CONJUNCTION WITH THE NCC**
- **CONTINUE TO SUPPORT THE NTMS TRIAL
EXERCISE**
- **PROVIDE A PROGRESS REPORT AT THE NEXT
NSTAC MEETING**

NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

TASK FORCE MEMBERSHIP

MS. PEGGY NEWLAND, NCS - CHAIRMAN

AMERICAN TELEPHONE & TELEGRAPH, COMPANY

MR. REG KIDD

BELLCORE

MR. BERNIE FARRELL

COMMUNICATIONS SATELLITE CORPORATION

DR. RON COUNCIL

CONTEL CORPORATION

MR. DON NOWAKOSKI

FORD AEROSPACE CORPORATION

MR. GARY CHESNEY

GE

MR. PAT GLENN

GTE CORPORATION

MR. JAMES BEAN

INTERNATIONAL BUSINESS MACHINES CORPORATION

MR. JOSEPH ROSE

ITT CORPORATION

MR. JOSEPH GANCIE

MCI COMMUNICATIONS CORPORATION

MR. PHILIP HOLLAR

NORTHERN TELECOM, INC.

DR. JOHN EDWARDS

PACIFIC TELECOM, INC.

MR. FRANK ADAMS

WESTERN UNION CORPORATION

MR. DAVID TREXLER

NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

WHAT IS THE NTMS?

**THE NTMS IS TO BE A SURVIVABLE AND ENDURING
TELECOMMUNICATIONS MANAGEMENT STRUCTURE
THAT WILL SUPPORT NATIONAL SECURITY EMERGENCY
PREPAREDNESS TELECOMMUNICATIONS REQUIREMENTS
IN THE EVENT OF NATIONAL EMERGENCY AND / OR
NUCLEAR WAR.**

NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

IMPLEMENTATION CONCEPT STATUS

- **SEP 87 - APPROVED BY NCS COMMITTEE OF PRINCIPALS &
FORWARDED TO ASSISTANT TO THE PRESIDENT
FOR NATIONAL SECURITY AFFAIRS**
- **NOV 87 - APPROVED BY NSTAC & FORWARDED TO
PRESIDENT (NSTAC VIII REPORT)**
- **MAR 88 - APPROVED BY WHITE HOUSE**

THE WHITE HOUSE
WASHINGTON

March 25, 1988

MEMORANDUM FOR THE HONORABLE FRANK C. CARLUCCI
Executive Agent, National Communications System

SUBJECT: Implementation of the National
Telecommunications Management Structure
(NTMS)

Pursuant to Executive Order 12472 and Interagency Group (NCS Committee of Principals) concurrence, the National Communications System (NCS) NTMS Implementation Concept is approved for implementation.

• • •

The Interagency Group (NCS Committee of Principals) and the Industry Executive Subcommittee of the President's National Security Telecommunications Advisory Committee should be commended for their dedication and outstanding efforts in the accomplishment of this important national security endeavor.



Colin L. Powell

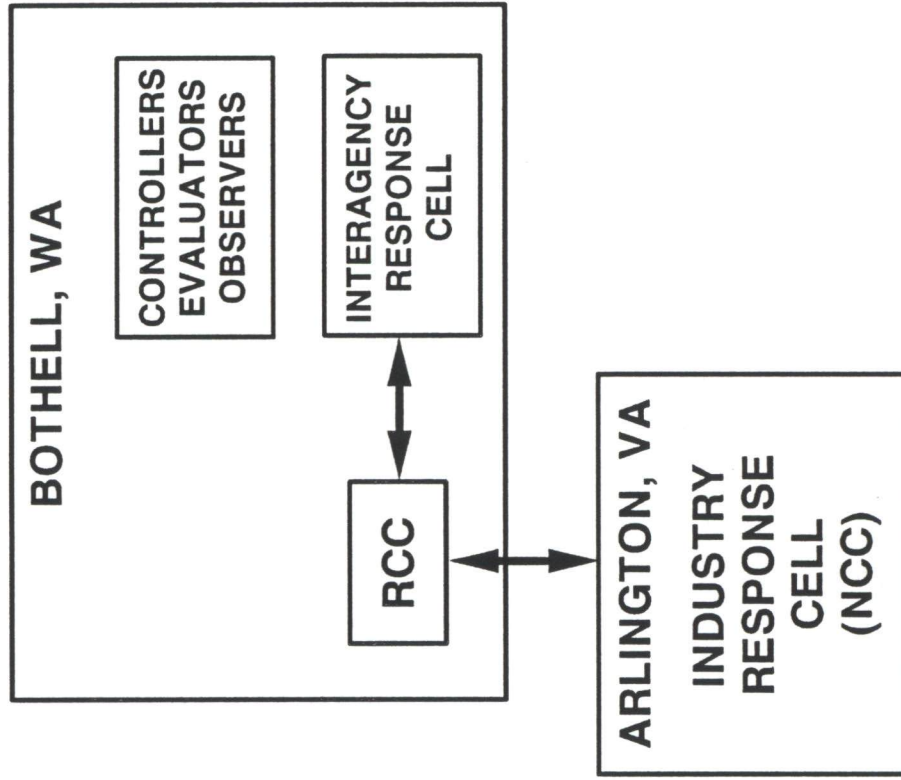
NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

NTMS TRIAL EXERCISE

- 12 JULY - 15 JULY
- 8 HOURS A DAY
- BOTHELL, WASHINGTON
- 14 GOVERNMENT AND 9 INDUSTRY PARTICIPANTS
- REGIONAL / NATIONAL FUNCTIONS
- INDUSTRY RESPONSE CELL AT THE NCC

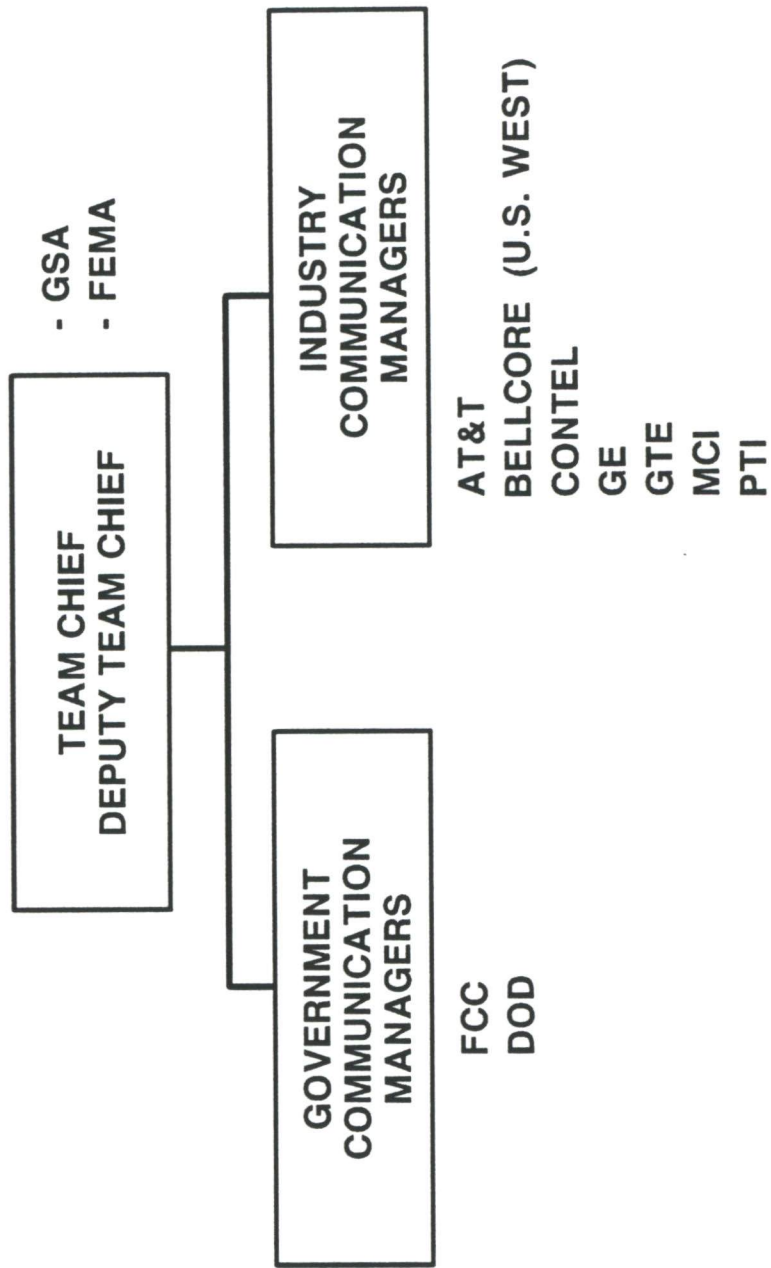
NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

NTMS TRIAL STRUCTURE



NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

RCC TEAM



NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

PRELIMINARY TRIAL RESULTS

- **EVALUATION BASED ON**
 - **FEEDBACK FROM PARTICIPANTS**
 - **OBSERVER / EVALUATOR INPUT**
- **GENERAL AGREEMENT THAT TRIAL OBJECTIVES WERE SUCCESSFULLY MET**
- **FINDINGS**
 - **CONCEPT IS VIABLE**
 - **6 DAYS / YR OR LESS FOR TRAINING / EXERCISE IS SUFFICIENT**
 - **TRAINING ADEQUATE BUT CAN BE IMPROVED**
 - **INITIAL COST ESTIMATE DEVELOPED**
 - **HIDDEN COSTS DISCOVERED**

NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

FUTURE ACTIVITIES

- **EVALUATE TRIAL RESULTS**
 - **RECOMMENDED CONCEPT MODIFICATIONS**
 - **COSTS TO IMPLEMENT NTMS**
- **NTMS PROGRAM PLAN**
- **NATIONAL TELECOMMUNICATIONS COORDINATING NETWORK (NTCN) ARCHITECTURE DEVELOPMENT**
- **SITE SELECTION**
- **INITIAL OPERATIONAL CAPABILITY (IOC) IN MID-ATLANTIC REGION**

NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

IES RECOMMENDATIONS TO THE NSTAC

NONE AT THIS TIME

NATIONAL TELECOMMUNICATIONS MANAGEMENT STRUCTURE (NTMS)

PROPOSED NSTAC IX CHARGES TO THE IES

- CONTINUE TO SERVE AS THE PLANNING FORUM
FOR NTMS IN CONJUNCTION WITH THE NCC
- PROVIDE FINAL TRIAL RESULTS AND IMPLEMENTATION
PROGRESS AT THE NEXT NSTAC MEETING

TELECOMMUNICATIONS SERVICE PRIORITY
(TSP) SYSTEM

National Security
Telecommunications
Advisory Committee



NSEP TELECOMMUNICATIONS SERVICE PRIORITY (TSP) SYSTEM

SEPTEMBER 22, 1988

THE WHITE HOUSE
WASHINGTON

July 11, 1988

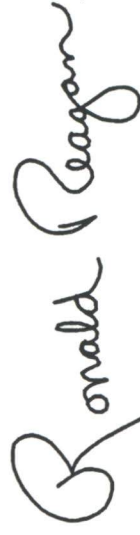
LETTER FOR MR. ROCCO J. MARANO

Chairman, National Security Telecommunications
Advisory Committee

SUBJECT: Implementation of the Telecommunications Service
Priority System

...Our highest national security emergency preparedness telecommunications priority continues to be implementation of the Telecommunications Service Priority System, and the Committee's continued advice and assistance is vital...

Sincerely,

A handwritten signature in cursive script that reads "Ronald Reagan". The signature is written in dark ink and is positioned above the printed name.

Ronald Reagan

TELECOMMUNICATIONS SERVICE PRIORITY (TSP)

NSTAC VIII CHARGES TO THE IES

- CONTINUE TO PROVIDE ADVICE AND ASSISTANCE TO THE NCS IN CONCEPTUALIZING AND DESIGNING A SYSTEM FOR PRIORITIZING THE INITIATION AND RESTORATION OF NSEP TELECOMMUNICATIONS
- PROVIDE A PROGRESS REPORT AT THE NEXT NSTAC MEETING

TELECOMMUNICATIONS SERVICE PRIORITY (TSP)

TASK FORCE MEMBERS

AMERICAN TELEPHONE AND TELEGRAPH

BELLCORE

CONTEL CORPORATION

FORD AEROSPACE CORPORATION

GENERAL ELECTRIC COMPANY

GTE CORPORATION

ITT CORPORATION

MARTIN MARIETTA

MCCAW COMMUNICATIONS

MCI COMMUNICATIONS CORPORATION

NORTHERN TELECOM, INC.

TRT TELECOMMUNICATIONS CORPORATION

UNITED TELECOMMUNICATIONS

WESTERN UNION CORPORATION

TELECOMMUNICATIONS SERVICE PRIORITY (TSP)

CURRENT TSP TASK FORCE REPORTING STRUCTURE

**PROVIDE ONGOING ADVICE AND ASSISTANCE
DIRECTLY TO OMNCS**

TELECOMMUNICATIONS SERVICE PRIORITY (TSP)

TASK FORCE ACTIVITY STATUS

SINCE NSTAC VIII, THE TASK FORCE HAS:

- HELD FIVE TASK FORCE MEETINGS AND 20 SUBGROUP MEETINGS
- REVIEWED
 - GOVERNMENT COMMENTS TO FCC NOTICE OF PROPOSED RULEMAKING
 - TSP VENDOR OPERATING PROCEDURES WORKING OUTLINE
 - TSP INTERNATIONAL STATUS
 - T1M1.1 AND ORDERING AND BILLING FORUM / NETWORK OPERATIONS FORUM COMMITTEE ACTIVITIES
- FORWARDED RECOMMENDATIONS ON:
 - TSP TRAINING
 - TSP AUTHORIZATION CODE
 - CUSTOMER PREMISES EQUIPMENT / CUSTOMER PREMISES WIRING ASSURANCE
 - INITIAL OPERATING CAPABILITY / FINAL OPERATING CAPABILITY DEFINITIONS
 - CONTINGENT PRIORITY ACTIVATION
 - SERVICE CONFIRMATION / RECONCILIATION

TELECOMMUNICATIONS SERVICE PRIORITY (TSP)

FUTURE TSP TASK FORCE ACTIVITIES

- **CURRENT TSP SUBGROUP ACTIVITIES**
 - **PROVISIONING / INVOCATION**
 - **TRANSITION**
- **CONTINUE REVIEWING, COMMENTING AND ASSISTING OMNCS ON:**
 - **TSP OPERATING PROCEDURES**
 - **TSP TRANSITION AND IMPLEMENTATION ISSUES**
 - **TSP TRAINING**

TELECOMMUNICATIONS SERVICE PRIORITY (TSP)

IES RECOMMENDATIONS TO THE NSTAC

NONE AT THIS TIME

TELECOMMUNICATIONS SERVICE PRIORITY (TSP)

**PROPOSED NSTAC RECOMMENDATIONS
TO THE PRESIDENT**

NONE AT THIS TIME

TELECOMMUNICATIONS SERVICE PRIORITY (TSP)

PROPOSED NSTAC IX CHARGES TO THE IES

- CONTINUE TO PROVIDE ADVICE AND ASSISTANCE TO THE NCS IN CONCEPTUALIZING AND DESIGNING A SYSTEM FOR PRIORITIZING THE INITIATION AND RESTORATION OF NSEP TELECOMMUNICATIONS
- PROVIDE A PROGRESS REPORT AT THE NEXT NSTAC MEETING

COMMERCIAL SATELLITE SURVIVABILITY (CSS)

National Security
Telecommunications
Advisory Committee



COMMERCIAL SATELLITE SURVIVABILITY (CSS)

SEPTEMBER 22, 1988

COMMERCIAL SATELLITE SURVIVABILITY (CSS)

CSS ISSUE - BACKGROUND

JUL 83 TASK FORCE REPORT DELIVERED TO NSTAC
APR 84 NSTAC RECOMMENDED THAT GOVERNMENT IMPLEMENT INITIATIVES

PRESIDENTIAL DIRECTION RESULTED IN COMMERCIAL SATCOM INTERCONNECTIVITY (CSI) IN THE NATIONAL LEVEL PROGRAM

NSTAC III CHARGE TO IES:

- EXPLORE NEW CSS INITIATIVES TO TAKE ADVANTAGE OF NEW TECHNOLOGIES IN SUPPORT OF NS/EP
- ASSIST AS NECESSARY DURING THE IMPLEMENTATION OF CSS INITIATIVES

COMMERCIAL SATELLITE SURVIVABILITY (CSS)

NCS CSI PROGRAM - BACKGROUND

APR 86 PUBLISHED:

- INITIAL PROGRAM PLAN
- DRAFT CSI CONCEPT OF OPERATIONS
- DRAFT CSI CONTINGENCY PLANS AND
EMERGENCY PROCEDURES

JUN 86 AWARDED SYSTEMS ENGINEERING AND TECHNICAL
ASSISTANCE CONTRACT

AUG 87 AWARDED

- PILOT CONTRACT
- RCA - TYPE ITT&C SITE CONTRACT
(HUGHES - TYPE SITE CONTRACT PROJECTED 9 / 88)

DEC 87 PUBLISHED CSI SYSTEM DESCRIPTION

JAN 88 DOCUMENTED NETWORK PROCEDURES

COMMERCIAL SATELLITE SURVIVABILITY (CSS)

TELECOMMUNICATIONS SYSTEMS SURVIVABILITY CSS ACTIVITIES

- AS A RESULT OF THE TELECOMMUNICATIONS SYSTEMS SURVIVABILITY (TSS) TASK FORCE REVIEW OF GOVERNMENT ACTIONS IN RESPONSE TO NSTAC CSS RECOMMENDATIONS, NCS REQUESTED THE IES RECONSTITUTE THE CSS TASK FORCE TO REVIEW CSI PHASE II ARCHITECTURE.
- AT ITS APRIL 26, 1988, MEETING, THE IES TASKED THE CSS TASK FORCE TO MEET TO CONSIDER THE GOVERNMENT'S REQUEST.

COMMERCIAL SATELLITE SURVIVABILITY (CSS)

IES CHARGE TO THE CSS TASK FORCE - APRIL 26, 1988

- CONDUCT A MEETING OF THE ORIGINAL CSS TASK FORCE MEMBERS
 - RECEIVE A BRIEFING ON THE PHASE II ARCHITECTURE
 - ASSESS THE NEED TO REACTIVATE THE CSS TASK FORCE
- THE TASK FORCE SHALL REPORT THEIR FINDINGS TO THE
JUNE 21, 1988, MEETING OF THE IES

COMMERCIAL SATELLITE SURVIVABILITY (CSS)

IES CHARGE TO THE CSS TASK FORCE

JUNE 21, 1988

- REACTIVATE THE COMMERCIAL SATELLITE SURVIVABILITY TASK FORCE TO:
 - REVIEW THE IMPLEMENTATION OF INITIATIVES AND OBJECTIVES ESTABLISHED BY THE COMMERCIAL SATCOM INTERCONNECTIVITY PHASE II ARCHITECTURE.
 - OFFER RECOMMENDATIONS BASED ON ACHIEVING THESE INITIATIVES AND OBJECTIVES GIVEN ANY CHANGE IN TECHNOLOGY THAT IMPACTS COMMERCIAL SATELLITE SURVIVABILITY.
- THE CSS TASK FORCE WILL BE COMPOSED OF THE FOLLOWING MEMBERS:
 - COMSAT
 - GTE SPACENET
 - FORD AEROSPACE
 - HUGHES AIRCRAFT
 - BELLCORE
 - ITT
 - CONTEL / ASC
 - AT&T
 - MCI
 - GE
 - PTI
- THE CSS TASK FORCE WILL ELECT ITS CHAIRPERSON.

COMMERCIAL SATELLITE SURVIVABILITY (CSS)

CSS TASK FORCE MEMBERS

DON FLORA, CHAIRMAN	COMSAT
PATRICK GLENN	GE
TROY ELLINGTON	GTE SPACENET
DON NOWAKOSKI	CONTEL / ASC
MIKE SHAW	MCI
HAROLD MCDONNELL	HUGHES AIRCRAFT
REX HOLLIS	FORD AEROSPACE
KEN STANLEY	AT&T
FRANK ADAMS	PACIFIC TELECOM
GORDON RAMSEY	BELLCORE
JOE GANCIE	ITT

COMMERCIAL SATELLITE SURVIVABILITY (CSS)

CSS TASK FORCE OBJECTIVES

- ASSIST THE GOVERNMENT IN ITS COMMERCIAL SATELLITE INTERCONNECTIVITY PROGRAM BY:
 - REVIEWING THE IMPLEMENTATION OF INITIATIVES AND OBJECTIVES ESTABLISHED BY THE COMMERCIAL SATCOM INTERCONNECTIVITY PHASE II ARCHITECTURE.
 - OFFERING RECOMMENDATIONS BASED ON ACHIEVING THESE INITIATIVES AND OBJECTIVES GIVEN ANY CHANGE IN TECHNOLOGY THAT IMPACTS COMMERCIAL SATELLITE SURVIVABILITY.

COMMERCIAL SATELLITE SURVIVABILITY (CSS)

CSS TASK FORCE ISSUES

- TECHNICAL, ECONOMIC AND OPERATIONAL
FEASIBILITY OF USING KU-BAND ASSETS TO
RESTORE TRUNKING
(IC-TO-IC AND LEC-TO-IC)
- TECHNICAL, ECONOMIC AND OPERATIONAL
FEASIBILITY OF USING KU-BAND ASSETS FOR
END USER CONNECTIVITY
(USER-TO-LEC AND USER-TO-IC)

COMMERCIAL SATELLITE SURVIVABILITY (CSS)

IES RECOMMENDATIONS TO THE NSTAC

NONE AT THIS TIME

COMMERCIAL SATELLITE SURVIVABILITY (CSS)

PROPOSED NSTAC RECOMMENDATIONS TO THE PRESIDENT

NONE AT THIS TIME

COMMERCIAL SATELLITE SURVIVABILITY (CSS)

PROPOSED NSTAC IX CHARGES TO THE IES

- **ASSIST THE GOVERNMENT IN ITS COMMERCIAL SATELLITE INTERCONNECTIVITY PROGRAM BY:**
 - **REVIEWING THE IMPLEMENTATION OF INITIATIVES AND OBJECTIVES ESTABLISHED BY THE COMMERCIAL SATCOM INTERCONNECTIVITY PHASE II ARCHITECTURE.**
 - **OFFERING RECOMMENDATIONS BASED ON ACHIEVING THESE INITIATIVES AND OBJECTIVES GIVEN ANY CHANGE IN TECHNOLOGY THAT IMPACTS COMMERCIAL SATELLITE SURVIVABILITY.**

ENERGY

National Security
Telecommunications
Advisory Committee



ENERGY

SEPTEMBER 22, 1988

ENERGY

NSTAC VIII CHARGE TO THE IES

- **ADVISE THE GOVERNMENT IN ITS EFFORTS TO IMPLEMENT
THE NSTAC'S ELECTRIC POWER RECOMMENDATION**

ENERGY

TASK FORCE MEMBERS

MR. FRANK ADAMS, PACIFIC TELECOM (CHAIRMAN)

AT&T

MR. REG KIDD

BELLCORE

MR. GORDON RAMSEY

GE

MR. PAT GLENN

GTE

MS. ERNESTINE GORMSEN

HARRIS

MR. LARRY LAMB

ITT

MR. JOE GANCIE

MCI

MR. MIKE SHAW

UNITED TELECOM

MR. JAY NELSON

ENERGY OVERVIEW

- ACTIVITIES
- CURRENT STATUS
- TASK FORCE APPROACH

ENERGY

ACTIVITIES

- SEPTEMBER 15, 1987 - PLANS TO MINIMIZE IMPACT OF ENERGY DISRUPTIONS ESTABLISHED AS ONE OF THE HIGHEST NSEP PRIORITIES
- DECEMBER 16-18, 1987 - PARTICIPATION IN DEPARTMENT OF ENERGY (DOE) SIMULATION
 - EXPLORED READINESS OF PLANS AND PROCEDURES
 - OBSERVED CONCERNS SIMILAR TO TELECOMMUNICATIONS
- MARCH 4, 1988 - DOE LETTER TO NSTAC CHAIRMAN
- MARCH 22, 1988 - DOE DRAFT PROGRAM CONCEPT
 - IMPROVE PLANNING FOR DEALING WITH DISRUPTIONS
 - IDENTIFY ACTIONS TO REDUCE VULNERABILITIES

ENERGY

ACTIVITIES (CONT'D)

- APRIL 6-7, 1988 - POWER INDUSTRY BRIEFINGS TO TSS TASK FORCE
 - ALASCOM
 - FLORIDA POWER AND LIGHT
- JOINT DISCUSSIONS
 - INTERDEPENDENCE OF ENERGY AND TELECOMMUNICATIONS
 - PROVIDING SURVIVABLE POWER FOR TELECOMMUNICATIONS
 - TELECOMMUNICATIONS REQUIREMENTS OF THE POWER INDUSTRY

ENERGY

CURRENT STATUS

- AGREED WITH POWER INDUSTRY TO HOLD A JOINT SIMULATION TO SCOPE THE DYNAMICS OF TELECOMMUNICATIONS AND ENERGY INTERDEPENDENCE
 - APPLY NUCLEAR SCENARIO (WORST CASE) AGAINST ENERGY AND TELECOMMUNICATIONS
 - LIMIT SIMULATION TO A "SMALL" AREA OF THE COUNTRY
 - DATE TO BE DETERMINED

ENERGY

TASK FORCE APPROACH

- **WORK WITH DOE TO DETERMINE THE NATURE AND EXTENT OF THE INTERDEPENDENCIES OF TELECOMMUNICATIONS AND ELECTRIC POWER AND DEVELOP RECOMMENDATIONS TO MITIGATE DEFICIENCIES RESULTING FROM SUCH INTERDEPENDENCIES**
- **DEVELOP RECOMMENDATIONS TO MITIGATE THE EFFECTS OF ELECTRIC POWER VULNERABILITIES AFFECTING TELECOMMUNICATIONS**
- **DEVELOP RECOMMENDATIONS TO THE GOVERNMENT FOR ESTABLISHING A PRIORITY MECHANISM FOR ELECTRIC POWER AND FUEL DISTRIBUTION UNDER EMERGENCY CONDITIONS**

ENERGY

IES RECOMMENDATION TO THE NSTAC

- **AGREE TO FORWARD STATUS REPORT TO THE
PRESIDENT**

ENERGY

**PROPOSED NSTAC RECOMMENDATIONS
TO THE PRESIDENT**

NONE AT THIS TIME

ENERGY

PROPOSED NSTAC IX CHARGE TO THE IES

- IN ACCORDANCE WITH THE TERMS OF REFERENCE APPROVED BY THE INDUSTRY EXECUTIVE SUBCOMMITTEE, THE NSTAC'S ENERGY TASK FORCE WILL ADVISE THE GOVERNMENT IN ITS EFFORTS TO IMPLEMENT THE NSTAC'S ELECTRIC POWER RECOMMENDATION