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**Series:** Van Cleave, Michelle, Files  
**Subseries:** Telecommunications Files

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**OA/ID Number:** 62116  
**Folder ID Number:** 62116-005

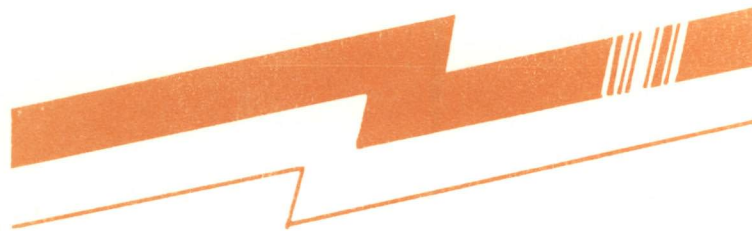
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**Folder Title:**  
National Security Telecommunications Advisory Committee [1 of 3]

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**NATIONAL SECURITY  
TELECOMMUNICATIONS  
ADVISORY COMMITTEE  
(NSTAC XII)**

**EXECUTIVE SESSION**

**DECEMBER 13, 1990**



**NATIONAL SECURITY  
TELECOMMUNICATIONS  
ADVISORY COMMITTEE**

**DECEMBER 13, 1990**

# EXECUTIVE SESSION

DECEMBER 13, 1990

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- ◆ 2:15 p.m. CALL TO ORDER.....MR. HOOD, CHAIRMAN
- 2:20 p.m. OPENING REMARKS BY THE ASSISTANT TO THE  
PRESIDENT FOR NATIONAL SECURITY AFFAIRS.....GEN SCOWCROFT
- 2:30 p.m. REMARKS BY THE EXECUTIVE AGENT.....SECRETARY CHENEY
- 2:45 p.m. NSTAC REPORT TO THE ASSISTANT TO THE  
PRESIDENT FOR NATIONAL SECURITY AFFAIRS.....MR. HOOD
- 2:55 p.m. REMARKS BY THE ASSISTANT TO THE PRESIDENT  
FOR NATIONAL SECURITY AFFAIRS.....GEN SCOWCROFT
- 3:00 p.m. ADJOURN.....MR. HOOD

**NSTAC XII EXECUTIVE SESSION**

**December 13, 1990**

**2:15 - 2:20 p.m.**

**CALL TO ORDER**

**MR. HOOD: GOOD AFTERNOON. I AM PLEASED TO CALL TO ORDER THIS EXECUTIVE SESSION OF THE NATIONAL SECURITY TELECOMMUNICATIONS ADVISORY COMMITTEE. IT'S A PLEASURE TO BE HERE ONCE AGAIN IN THIS HISTORIC ROOM. OUR BUSINESS SESSION AT THE STATE DEPARTMENT THIS MORNING WAS EXTREMELY PRODUCTIVE. THE WORK OF OUR TASK FORCES PRODUCED TANGIBLE RESULTS IN A NUMBER OF KEY AREAS AFFECTING NATIONAL SECURITY AND EMERGENCY PREPAREDNESS TELECOMMUNICATIONS.**

ON BEHALF OF THE COMMITTEE, I WELCOME GENERAL RODGERS TO THE NSTAC PROCESS, AND THANK HIM AND HIS STAFF FOR ORCHESTRATING THIS MORNING'S BUSINESS SESSION AND PROVIDING THEIR CONTINUING SUPPORT TO THE COMMITTEE. AS WE WITNESSED THIS MORNING, THE NSTAC PROCESS CONTINUES TO PROVIDE USEFUL AND PRODUCTIVE ADVICE. IT WAS GRATIFYING THIS MORNING TO SEE THE SUCCESS OF THE JOINT GOVERNMENT-INDUSTRY PLANNING PROCESS, WHICH NSTAC REPRESENTS, THROUGH THE IMPLEMENTATION OF THE TSP SYSTEM. IT WAS ALSO ENCOURAGING TO SEE THE COOPERATIVE EFFORT BETWEEN GOVERNMENT AND INDUSTRY WITH RESPECT TO NETWORK SECURITY. WE LOOK FORWARD TO WORKING WITH YOU, GENERAL RODGERS, TO HELP YOU MEET THE CHALLENGES AND OBJECTIVES OUTLINED IN YOUR COMMENTS THIS MORNING.

I WANT TO ACKNOWLEDGE THE PRESENCE HERE THIS AFTERNOON OF THE PRESIDENT'S KEY ADVISORS.

• SECRETARY OF DEFENSE AND THE EXECUTIVE AGENT FOR THE NATIONAL

COMMUNICATIONS SYSTEM, THE HONORABLE DICK CHENEY →

*Mr Duane  
Andrews*

• THE ASSISTANT TO THE PRESIDENT FOR NATIONAL SECURITY AFFAIRS, GENERAL  
BRENT SCOWCROFT

• THE ASSISTANT TO THE PRESIDENT FOR SCIENCE AND TECHNOLOGY AND DIRECTOR  
OF THE OFFICE OF SCIENCE AND TECHNOLOGY POLICY, THE HONORABLE D. ALLAN  
BROMLEY → *ms Michelle Van Cleave*

• FROM THE OFFICE OF MANAGEMENT AND BUDGET, WE HAVE MR. ROBERT HOWARD,  
THE EXECUTIVE ASSOCIATE DIRECTOR. → *Mr Donald Gessaman*

AS YOU KNOW, OVER THE YEARS WE HAVE WORKED VERY CLOSELY WITH, AND RECEIVED

MUCH SUPPORT FROM, THE ASSISTANT TO THE PRESIDENT FOR NATIONAL SECURITY AFFAIRS AND THE NATIONAL SECURITY COUNCIL STAFF. GENERAL SCOWCROFT CONTINUES THAT TRADITION. THE COMMITTEE APPRECIATES HIS SUPPORT AND THAT OF HIS STAFF. AT THIS TIME. I AM PLEASED TO INTRODUCE, THE PRESIDENT'S NATIONAL SECURITY ADVISOR, GENERAL BRENT SCOWCROFT. GENERAL SCOWCROFT.

**EXECUTIVE SESSION**

DECEMBER 13, 1990

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3:00 p.m. ADJOURN.....MR. HOOD

**NSTAC XII EXECUTIVE SESSION**

**December 13, 1990**

**2:20 - 2:30 p.m.**

**OPENING REMARKS BY THE**

**ASSISTANT TO THE PRESIDENT FOR NATIONAL SECURITY AFFAIRS**

**GENERAL SCOWCROFT: THANK YOU MR. HOOD. IT IS A PLEASURE TO ONCE AGAIN ADDRESS THE MEMBERS OF THE NSTAC. THE COMMITTEE'S EFFORTS HAVE CONTINUED TO BE INSTRUMENTAL IN ENHANCING OUR NATION'S TELECOMMUNICATIONS POSTURE. YOUR ADVICE AND ASSISTANCE IS PARTICULARLY IMPORTANT DURING THIS PERIOD OF STRESS IN OUR NATIONAL SECURITY ENVIRONMENT. THE COMMUNICATIONS ESTABLISHED TO SUPPORT OUR RESPONSE TO THE MIDDLE EAST CRISIS WAS MADE POSSIBLE IN PART BY THE ASSISTANCE OF NSTAC COMPANIES AND BY THE MECHANISMS,**

SUCH AS THE NATIONAL COORDINATING CENTER, WHICH YOU HELPED CREATE.

LAST YEAR IT WAS MY PLEASURE TO RECEIVE YOUR REPORT AND TO FORWARD IT TO THE PRESIDENT. HE HAS REVIEWED YOUR REPORT AND HAS PROVIDED A LETTER BACK TO MR. HOOD ON THE ACTIONS HE INTENDS TO TAKE WITH RESPECT TO THAT REPORT. YOU WILL FIND A COPY OF THE PRESIDENT'S RESPONSE TO NSTAC XI IN FRONT OF YOU. BRIEFLY, THE PRESIDENT HAS ASKED MY NATIONAL SECURITY COUNCIL STAFF TO WORK WITH THE DEPARTMENT OF ENERGY, AND THE NATIONAL COMMUNICATIONS SYSTEM TO ADDRESS THE ENERGY SURVIVABILITY ISSUES YOU RAISED. WITH RESPECT TO YOUR REVIEW OF THE COMMERCIAL SATELLITE SURVIVABILITY ISSUES, THE PRESIDENT FELT YOUR ADVICE EXTREMELY VALUABLE IN ASSISTING OUR ONGOING EFFORTS TO REFINE OUR NATIONAL LEVEL PROGRAM FOR NATIONAL SECURITY AND EMERGENCY PREPAREDNESS TELECOMMUNICATIONS. AND FINALLY YOUR EFFORTS AND ASSISTANCE ASSURED THE EFFECTIVE DEVELOPMENT AND IMPLEMENTATION OF THE TELECOMMUNICATIONS SERVICE

PRIORITY (TSP) SYSTEM, WHICH HAS GREATLY AIDED IN ESTABLISHING PRIORITY NS/EP

CIRCUITS.

NSTAC REMAINS AN EXTREMELY VALUABLE ASSET TO THE PRESIDENT IN PROVIDING HIM  
ADVICE AND ASSISTANCE ON CRITICAL TELECOMMUNICATIONS ISSUES. YOUR  
COLLECTIVE THOUGHTS AND COUNSEL ON THE FUTURE DIRECTION WE SHOULD TAKE TO  
ENHANCE OUR NATION'S TELECOMMUNICATIONS INFRASTRUCTURE, AND TO SUPPORT  
NATIONAL SECURITY POLICY AND STRATEGY, ARE BOTH WELCOMED AND ENCOURAGED. I  
LOOK FORWARD TO YOUR REPORT LATER IN THIS SESSION AND TO THE CONTINUING  
ADVISE YOU PROVIDE.

*the Assistant for C3I, Mr Duane Andrews*

OUR NEXT SPEAKER IS SECRETARY OF DEFENSE DICK CHENEY, WHO, AS YOU KNOW, ALSO  
SERVES AS EXECUTIVE AGENT OF THE NATIONAL COMMUNICATIONS SYSTEM. WE ARE ALL  
FORTUNATE TO HAVE A MAN OF HIS CALIBER AS THE SECRETARY OF DEFENSE, WORKING

**TO SECURE THE PEACE BY KEEPING OUR DEFENSE ESTABLISHMENT STRONG AND  
RESPONSIVE TO OUR NATIONAL SECURITY NEEDS. IT IS A PLEASURE TO INTRODUCE  
SECRETARY OF DEFENSE DICK CHENEY. MR. SECRETARY...**

NATIONAL SECURITY TELECOMMUNICATIONS ADVISORY COMMITTEE (NSTAC)

**EXECUTIVE SESSION**

DECEMBER 13, 1990

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**NSTAC XII EXECUTIVE SESSION**

**December 13, 1990**

**2:30 - 2:45 p.m.**

**SECRETARY OF DEFENSE REMARKS**

**(SECRETARY CHENEY'S REMARKS)**

**[SECRETARY CHENEY CONCLUDES REMARKS AND RETURNS MEETING TO MR. HOOD]**

# EXECUTIVE SESSION

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**NSTAC XII EXECUTIVE SESSION**

**December 13, 1990**

**2:45 - 2:55 p.m.**

**NSTAC CHAIRMAN'S REPORT**

*Mr Andrews*

**MR. HOOD: THANK YOU, SECRETARY CHENEY AND GENERAL SCOWCROFT. THE NSTAC WAS CHARTERED IN 1982 TO PROVIDE THE PRESIDENT WITH ADVICE AND ASSISTANCE ON NATIONAL SECURITY AND EMERGENCY PREPAREDNESS TELECOMMUNICATIONS MATTERS. WE ARE PROUD OF THE CONTRIBUTIONS THAT OUR COMMITTEE HAS MADE TOWARD IMPROVING OUR NATIONAL SECURITY TELECOMMUNICATIONS POSTURE OVER THE PAST EIGHT-PLUS YEARS. THESE CONTRIBUTIONS INCLUDED INITIATIVES THAT RESULTED IN THE NCS COMMERCIAL SATCOM INTERCONNECTIVITY AND COMMERCIAL NETWORK SURVIVABILITY PROGRAMS, IMPLEMENTATION OF THE NATIONAL TELECOMMUNICATIONS**

MANAGEMENT STRUCTURE, AND CREATION OF THE NATIONAL COORDINATING CENTER, OR  
NCC.

TODAY, I AM PLEASED TO PRESENT YOU THE STATUS OF THE ISSUES CURRENTLY ON THE  
COMMITTEE'S AGENDA. WE MADE SIGNIFICANT PROGRESS ON KEY ISSUES SINCE WE  
LAST MET. OUR ACCOMPLISHMENTS OCCURRED BECAUSE OF THE HARD WORK AND  
DEDICATION OF THE MEN AND WOMEN, IN INDUSTRY AND GOVERNMENT, THAT SUPPORT  
THE PROCESS.

I WILL NOW PRESENT A BRIEF OVERVIEW OF OUR ACTIVITIES REGARDING THE  
TELECOMMUNICATIONS SERVICE PRIORITY SYSTEM, INTELLIGENT NETWORKS, NETWORK  
SECURITY, AND A NEW NSTAC INITIATIVE -- ENHANCED CALL COMPLETION.

- A MAJOR SUCCESS THIS YEAR WAS THE IMPLEMENTATION OF THE

TELECOMMUNICATIONS SERVICE PRIORITY, OR TSP SYSTEM. THE TSP SYSTEM ACHIEVED ITS INITIAL OPERATING CAPABILITY ON SEPTEMBER 10, 1990. TSP PERMITS INDUSTRY TO RESTORE AND INSTALL TELECOMMUNICATION SERVICES ON A PRIORITY BASIS DURING AND AFTER MAJOR DISASTERS OR EMERGENCIES. TSP HAS PLAYED A MAJOR ROLE IN PROVISIONING AND RESTORING CRITICAL TELECOMMUNICATION SERVICES IN SUPPORT OF OPERATION DESERT SHIELD. OUR TASK FORCE HELPED THE NCS ADDRESS KEY TSP IMPLEMENTATION ISSUES, AND ESTABLISH THE TSP OVERSIGHT COMMITTEE OPERATING CHARTER. THE OVERSIGHT COMMITTEE, COMPRISED OF FEDERAL, STATE, LOCAL, AND INDUSTRY REPRESENTATIVES, WILL ACT AS AN ADVISORY COMMITTEE TO THE MANAGER, NCS, WHO ADMINISTERS THE TSP SYSTEM ON BEHALF OF THE FEDERAL COMMUNICATIONS COMMISSION. OUR GROUP ALSO HELPED THE NCS DEVELOP THE TSP INFORMATION VIDEO, WHICH INDUSTRY AND GOVERNMENT CAN USE AS A TSP TRAINING TOOL.

WE RECOMMEND THAT THE FEDERAL GOVERNMENT CONTINUE TO SUPPORT THE TSP SYSTEM, AND THE TSP OVERSIGHT COMMITTEE. THE SUCCESS IN IMPLEMENTING THE TSP SYSTEM HIGHLIGHTS THE BENEFITS OF THE JOINT GOVERNMENT-INDUSTRY PLANNING PROCESS THAT NSTAC REPRESENTS.

- WE CONTINUED STUDYING THE CAPABILITIES OF INTELLIGENT NETWORKS AND HOW THE GOVERNMENT CAN USE INTELLIGENT NETWORKS TO IMPROVE NATIONAL SECURITY AND EMERGENCY PREPAREDNESS TELECOMMUNICATIONS. INTELLIGENT NETWORKS ALLOW USERS TO ESTABLISH AND RECONFIGURE THEIR OWN NETWORK SERVICES. THIS HAS POSITIVE AND NEGATIVE IMPLICATIONS FOR NATIONAL SECURITY AND EMERGENCY PREPAREDNESS TELECOMMUNICATIONS. FINDINGS AND RECOMMENDATIONS OF THIS STUDY WILL BE PRESENTED AT NSTAC THIRTEEN.
- WE STUDIED THE THREAT OF COMPUTER CRIMINALS, OR "HACKERS" TO PENETRATE

AND COMPROMISE PUBLIC SWITCHED NETWORK SECURITY, AND MONITOR OR DISRUPT TELECOMMUNICATIONS SERVING NS/EP USERS. OUR GROUP FOUND THE COMPUTER CRIMINAL THREAT TO BE REAL, BUT THE RISK UNCERTAIN. THEY CONCLUDED THE TASK FORCE SHOULD WORK CLOSELY WITH THE GOVERNMENT NETWORK SECURITY GROUP TO DEVELOP APPROPRIATE ACTIONS TO ENHANCE PUBLIC SWITCHED NETWORK SECURITY. THEY WILL PROVIDE A STATUS REPORT AT NSTAC THIRTEEN, AND SHOULD COMPLETE THEIR WORK BY NSTAC FOURTEEN.

- AN ENHANCED CALL COMPLETION TASK FORCE WAS ESTABLISHED THIS MORNING TO INVESTIGATE THE ISSUES AND PROBLEMS ASSOCIATED WITH PROVIDING CRITICAL GOVERNMENT USERS CALL-BY-CALL PRIORITY TREATMENT THROUGH THE ENTIRE PUBLIC SWITCHED NETWORK. WE LOOK FORWARD TO HEARING THE GROUP'S RESULTS AT NSTAC FOURTEEN.

THAT CONCLUDES MY REPORT. ON BEHALF OF THE COMMITTEE MEMBERS, IT HAS BEEN AN HONOR TO SERVE THE PRESIDENT AND THE NATION. THE NSTAC WILL CONTINUE TO ADVISE THE PRESIDENT ON WAYS TO REINFORCE OUR TELECOMMUNICATIONS INFRASTRUCTURE IN SUPPORT OF NATIONAL SECURITY AND EMERGENCY PREPAREDNESS NEEDS.

## EXECUTIVE SESSION

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**NSTAC XII EXECUTIVE SESSION**

**DECEMBER 13, 1990**

**2:55 p.m.**

**REMARKS BY**

**ASSISTANT TO THE PRESIDENT FOR NATIONAL SECURITY AFFAIRS**

**GENERAL SCOWCROFT: ON BEHALF OF THE PRESIDENT, I THANK YOU FOR YOUR REPORT AND FOR THE EFFORTS OF THE COMMITTEE. AS I PREVIOUSLY MENTIONED, YOUR ADVICE AND ASSISTANCE IS VALUED. THE PRESIDENT EXPRESSLY APPRECIATES YOUR SUPPORT IN IMPLEMENTING THE TELECOMMUNICATIONS SERVICE PRIORITY (TSP) SYSTEM AND YOUR CURRENT WORK ON THE NETWORK SECURITY ISSUE. AGAIN, I THANK YOU ON BEHALF OF THE PRESIDENT FOR MAKING OUR JOINT GOVERNMENT-INDUSTRY PLANNING PROCESS SUCCESSFUL.**

**NSTAC XII EXECUTIVE SESSION**

**December 13, 1990**

**3:00 p.m.**

*Award President  
4:10 arrival*

**ADJOURNMENT**

**MR. HOOD: I APPRECIATE THE SUPPORT YOUR COMPANIES DEVOTE TO THE NSTAC PROCESS. BECAUSE OF YOUR SUPPORT, WE HAD A VERY PRODUCTIVE YEAR, AND A PRODUCTIVE AND INFORMATIVE SESSION TODAY. THANK YOU. I ALSO WISH TO THANK THE NATIONAL SECURITY COUNCIL FOR HOSTING TODAY'S MEETING. OUR NEXT MEETING IS SCHEDULED FOR SEPTEMBER 19, 1991. I LOOK FORWARD TO SEEING YOU THEN. THE TWELFTH NSTAC MEETING IS NOW OFFICIALLY ADJOURNED.**

# EXECUTIVE SESSION

DECEMBER 13, 1990

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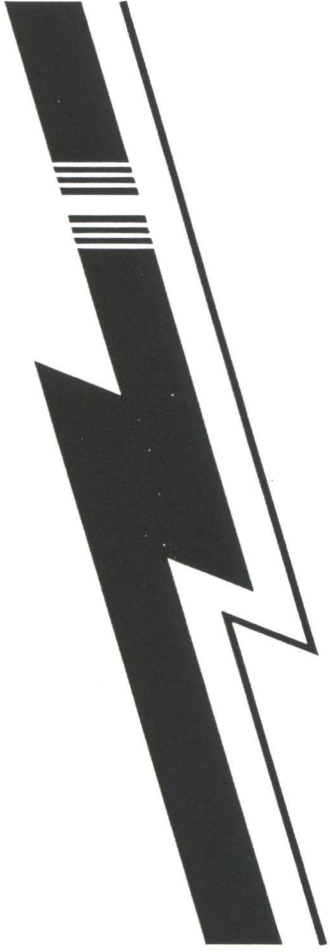
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**NATIONAL SECURITY  
TELECOMMUNICATIONS  
ADVISORY COMMITTEE**

**DECEMBER 13, 1990**

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



**NATIONAL SECURITY  
TELECOMMUNICATIONS  
ADVISORY COMMITTEE**

**DECEMBER 13, 1990**

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**NATIONAL SECURITY  
TELECOMMUNICATIONS  
ADVISORY COMMITTEE**

**DECEMBER 13, 1990**

TELECOMMUNICATIONS SERVICE PRIORITY (TSP)

NATIONAL SECURITY  
TELECOMMUNICATIONS  
ADVISORY COMMITTEE



# TELECOMMUNICATIONS SERVICE PRIORITY (TSP)

DECEMBER 13, 1990

**Telecommunications Service Priority (TSP) Task Force**

**Task Force Members**

---

**Mr. Robert Bradshaw, GTE, Chairman**

**AT&T**

**Mr. David Bush**

**Bellcore**

**Mr. Randall Schulz**

**Contel**

**Mr. R. E. Smith**

**GE**

**Mr. Patrick Glenn**

**ITT**

**Mr. Joseph J. Gancie**

**Martin Marietta**

**Mr. John R. Hocker**

**McCaw**

**Mr. Loren G. Kragh**

**MCI**

**Mr. Philip Hollar**

**NTI**

**Dr. John Edwards**

**UTI**

**Mr. G. Jay Nelson**

## **NSTAC XI Charges to the IES**

---

- **Provide transition support to the TSP Oversight Committee**
- **Assist the NCS with the development of a TSP information video**
- **Provide final report at NSTAC XII**
- **Deactivate the TSP Task Force upon the initial meeting of the TSP Oversight Committee**
- **IES serve as NSTAC nominating authority for the TSP Oversight Committee industry membership**

## TSP Program Status

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- System activated September 10, 1990
- As of November 28, OMNCS had received
  - 317 requests for provisioning and restoration priority
  - .. 112 for Desert Shield
  - 1250 requests for restoration priority only
  - .. 63 for Desert Shield

## TSP Oversight Committee Membership

---

<u>Industry</u>	<u>State</u>	<u>Federal Government</u>
AT&T	California	DOC
Bellcore	South Carolina	DOD
Contel		DOE
GTE		DOT
McCaw		FEMA
MCI		GSA
UTI (US Sprint)		NTIA

FCC (Non-Voting)

## **TSP Oversight Committee Status**

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- **Amending TSP Oversight Committee charter to include procurement integrity statement**
- **Anticipate first meeting spring 1991**
- **Deactivate TSP Task Force until first TSP Oversight Committee meeting, then disband**

## Original TSP Charge

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- **Provide advice and assistance to the OMNCS in conceptualizing and designing a system for initiating and restoring NS/EP telecommunication services on a priority basis**
- **Identify and assess any provisioning, restoration, maintenance, legal, or regulatory issues that may surface**

## **Format For Success**

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- **Utilized joint Government-industry planning process**
  - **Task Force and COR Subcommittee working toward common goal**
  - **Group interaction and cooperation**
  - **Joint meetings when appropriate**
- **Utilized subject matter experts**
- **Utilized industry standards organizations**

## **IES Recommendations to the NSTAC**

---

- **Approve and forward TSP Task Force Final Report to the President**
- **Approve proposed NSTAC recommendation to the President**
- **Approve proposed NSTAC XII charges to the IES**

Telecommunications Service Priority (TSP) Task Force

## **Proposed NSTAC Recommendation to the President**

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**The Federal Government should:**

**Continue to support the TSP System, as defined  
in NCS Directive 3-1, and the TSP Oversight  
Committee**

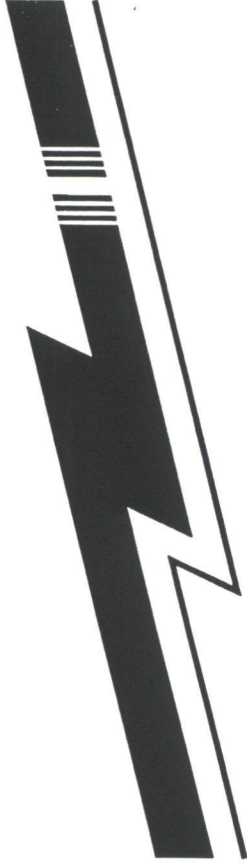
## **Proposed NSTAC XII Charges to the IES**

---

- **Deactivate the TSP Task Force and disband upon initial meeting of the TSP Oversight Committee**
- **Support the TSP Oversight Committee through participation as members and observers**
- **Invite the TSP Oversight Committee to periodically brief the IES on TSP issues and status**

INTELLIGENT NETWORKS (IN)

NATIONAL SECURITY  
TELECOMMUNICATIONS  
ADVISORY COMMITTEE



# INTELLIGENT NETWORKS (IN) TASK FORCE

DECEMBER 13, 1990

## **Intelligent Network Definition**

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**The intelligent network is an evolving telecommunications network architecture consisting of signaling systems, switches, computer processing, data bases, and transmission media. It provides customized software controlled network services that can be flexibly, rapidly, and cost-effectively configured by the customer in response to unique requirements independent of service provider activities.**

## **NSTAC XI Charges to the IES**

---

- **Derive a set of desired NS/EP user features**
- **Compare these features with the intelligent network services available or emerging into the Public Switched Network (PSN)**
- **Determine the advantages and disadvantages of identified intelligent network services for NS/EP telecommunications including interoperability considerations**
- **Make recommendations to NSTAC XII**

**Intelligent Networks (IN) Task Force**

**Task Force Members**

---

**Mr. Donald Nowakoski, Contel, Chairman**

**AT&T**

**Mr. Samuel Telleson**

**Bellcore**

**Mr. Randall Schulz**

**COMSAT**

**Dr. Allen Dayton**

**CSC**

**Mr. John Tittle**

**GTE**

**Mr. James Bean**

**Harris**

**Mr. Robert Domino**

**Martin Marietta**

**Mr. John Hocker**

**McCaw**

**Mr. Richard McElhenie**

**MCI**

**Mr. Joseph Cassano**

**UTI**

**Mr. Allen Wild**

## Research

---

- **Employed:**
  - **65 source documents**
  - **More than 20 briefings**
    - **Telecommunications industry**
    - **U.S. Government agencies and departments**
    - **State governments**
    - **Research institutions**
  - **Opinions and input from the staffs of task force member companies**

**Intelligent Networks (IN) Task Force**

**NS/EP Desired Features**

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- **The task force requested Government assistance in developing an NS/EP desired features list**
  - **OMNCS established Intelligent Networks Working Group**
    - **40 features identified**
  - **Interviews conducted with State and Federal Government personnel**
    - **14 additional features identified**

## **NS/EP Desired Features (Continued)**

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- **25 features were considered critical for NS/EP purposes by the Government**
- **For example:**
  - **Traveling classmark**
  - **Priority service**
  - **Network security**
  - **Specific routing for NS/EP**

## **Impact of the Intelligent Network on NS/EP Telecommunications**

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- **Ubiquitous, all NS/EP users can be accommodated**
- **New services for emergency response can be quickly created**
- **Responsive to NS/EP needs**
- **Access and egress possible through all media**
- **Enhanced survivability**
- **New software defined environment**
- **New management processes required**
- **New customer premise equipment may be needed**
- **Expectation for reduced costs**

## Significant Considerations

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- Near-100% call completion
- SS7 is the backbone of the intelligent network
- Intelligent network may be vulnerable to illegal penetration
- Openness of the intelligent network architecture increases Government-industry security concerns
- Standards forums are not addressing many NS/EP needs
- Government technology important to network vulnerability mitigation

**Intelligent Networks (IN) Task Force**

**Current Status**

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- **Intelligent Networks Task Force report prepared**
- **IES accepted report**
- **Report referred to IES Operation Working Group (OWG) for evaluation**
- **Intelligent Networks Task Force to support OWG evaluation efforts**
- **Present evaluation results at NSTAC XIII**

Intelligent Networks (IN) Task Force

## **IES Recommendation to the NSTAC**

---

**Approve proposed NSTAC XII charges to the IES**

## Proposed NSTAC XII Charges to the IES

---

- Evaluate, in conjunction with the task force and the Government, the conclusions and recommendations of the Intelligent Networks Task Force
- Refine the recommendations and develop an approach to implementing appropriate intelligent network features and actions with the goal of enhancing NS/EP telecommunications
- Report results to NSTAC XIII

NETWORK SECURITY THREAT

# Withdrawal/Redaction Sheet

## (George Bush Library)

Document No. and Type	Subject/Title of Document	Date	Restriction	Class.
01. Report	Risks to the Public Switched Network (15 pp.)	12/13/90	(b)(2)	

**Collection:**

**Record Group:** Bush Presidential Records  
**Office:** Science and Technology Policy, Office of (OSTP)  
**Series:** Van Cleave, Michelle, Files  
**Subseries:** Telecommunications Files  
**WHORM Cat.:**  
**File Location:** National Security Telecommunications Advisory Committee [1 of 3]

<b>Date Closed:</b> 6/7/2010	<b>OA/ID Number:</b> 62116-005
<b>FOIA/SYS Case #:</b> 2005-0336-F	<b>Appeal Case #:</b>
<b>Re-review Case #:</b>	<b>Appeal Disposition:</b>
<b>P-2/P-5 Review Case #:</b>	<b>Disposition Date:</b>
<b>AR Case #:</b>	<b>MR Case #:</b>
<b>AR Disposition:</b>	<b>MR Disposition:</b>
<b>AR Disposition Date:</b>	<b>MR Disposition Date:</b>

### RESTRICTION CODES

**Presidential Records Act - [44 U.S.C. 2204(a)]**

P-1 National Security Classified Information [(a)(1) of the PRA]  
P-2 Relating to the appointment to Federal office [(a)(2) of the PRA]  
P-3 Release would violate a Federal statute [(a)(3) of the PRA]  
P-4 Release would disclose trade secrets or confidential commercial or financial information [(a)(4) of the PRA]  
P-5 Release would disclose confidential advice between the President and his advisors, or between such advisors [(a)(5) of the PRA]  
P-6 Release would constitute a clearly unwarranted invasion of personal privacy [(a)(6) of the PRA]

C. Closed in accordance with restrictions contained in donor's deed of gift.

PRM. Removed as a personal record misfile.

**Freedom of Information Act - [5 U.S.C. 552(b)]**

(b)(1) National security classified information [(b)(1) of the FOIA]  
(b)(2) Release would disclose internal personnel rules and practices of an agency [(b)(2) of the FOIA]  
(b)(3) Release would violate a Federal statute [(b)(3) of the FOIA]  
(b)(4) Release would disclose trade secrets or confidential or financial information [(b)(4) of the FOIA]  
(b)(6) Release would constitute a clearly unwarranted invasion of personal privacy [(b)(6) of the FOIA]  
(b)(7) Release would disclose information compiled for law enforcement purposes [(b)(7) of the FOIA]  
(b)(8) Release would disclose information concerning the regulation of financial institutions [(b)(8) of the FOIA]  
(b)(9) Release would disclose geological or geophysical information

NETWORK SECURITY (NS)

NATIONAL SECURITY  
TELECOMMUNICATIONS  
ADVISORY COMMITTEE



# NETWORK SECURITY (NS) TASK FORCE

DECEMBER 13, 1990



Network Security Task Force

## Government Network Security Activities

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- **Manager, NCS, requested NSTAC address network security**
- **National Security Council directed Manager, NCS, to establish parallel intra-Government effort**

**Network Security Task Force**

**NSTAC XI Charges to the IES**

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- **Scope the issue of network security and determine whether NSTAC review is appropriate**
- **Report findings/recommendations to May 1990 IES meeting**

**Network Security Task Force**

**Task Force Members**

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**Mr. Herbert Benington, UNISYS, Chairman**

**AT&T**

**Bellcore**

**Contel**

**Ford Aerospace**

**GE**

**GTE**

**ITT**

**MCI**

**Motorola**

**NTI**

**Rockwell**

**UTI**

**Mr. David Bush**

**Mr. Randall Schulz**

**Mr. Donald Nowakowski**

**Dr. George Dinolt**

**Mr. Patrick Glenn**

**Mr. John Cholewa**

**Mr. Joseph Gancie**

**Mr. Joseph Cassano**

**Mr. Alexander Toth**

**Dr. John Edwards**

**Mr. Lawrence Manly**

**Mr. D. Jay Nelson**

## Panel on Threats and Vulnerabilities

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**Mr. Barry Schwartz, Bellcore, Chairman**

**AT&T**

**Mr. David Bush**

**Contel**

**Mr. Douglas Guernsey**

**Ford Aerospace**

**Dr. George Dinolt**

**GTE**

**Mr. James Moake**

**MCI**

**Mr. Bruce Wells**

**NTI**

**Dr. John Edwards**

**UNISYS**

**Mr. J. Michael Williams**

**UTI**

**Mr. John Laclede**

## Conclusions — Threat

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- **Current threat: intruders or computer criminals**
  - **Are targeting the PSN**
  - **Have sophisticated technical and operational capabilities**
  - **Use "social engineering"**
  - **Have hierarchical network**
  - **Have international and adversary ties**
- **More serious potential threat: resourceful adversary starting with "hacker" information base**

## Conclusions — Vulnerabilities

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- Many factors make network security a difficult challenge
- Penetrations of operations support systems, network elements
- Penetrations usually exploit poor security practices
- Subtle security "holes" are prevalent
- Threat recognized and many steps being taken today to reduce vulnerabilities

## Conclusions — Risk

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- Risk is highly uncertain. For example:
  - Collusion and hostility of "hackers" not known
  - Role of foreign "hackers" and adversary groups undetermined
  - Deterrent power of law enforcement just emerging
  - Priority and effectiveness of recent measures just being tested
  - Total system view of vulnerability is lacking

## Conclusions — Risk (Continued)

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- If risk is high, it is likely a group attack on the PSN could cause prolonged nationwide outages
- If risk is low, significant NS/EP service degradation is much less likely
  - To date, hackers have not undertaken a major attack
  - To date, PSN service to NS/EP users has not been significantly degraded
- However, industry and Government should assume that significant NS/EP service degradation is possible and act accordingly



## Network Security Task Force

# Conclusions

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- **Steps can be taken (in some cases are being taken) to strengthen networks**
- **Most important are individual company efforts, and secondarily, joint Government/NSTAC efforts**

## Conclusions (Continued)

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- **Steps industry companies can take ... near-term**
  - **Conduct intensive network audits**
  - **Assure dial access control**
  - **Use existing security features**
  - **Require elimination of security "holes" in supplied systems**
  - **Deploy new network security technologies**
  - **Control proprietary information**
  - **Improve security staff skills**
  - **Establish network security awareness programs**

## Conclusions (Continued)

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- **Steps industry companies can take ... long-term**
  - **Develop and implement a network security "architecture"**
  - **Demand, build, and purchase secure systems**
  - **Establish an effective incident response strategy**

## Network Security Task Force

# Recommendations for Follow-On NSTAC Actions

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- **Establish a follow-on Network Security Task Force to work closely with and in support of the Government Network Security Subgroup, and to address the following:**
  - **Security information exchange**
  - **Improved exchange of threat intelligence**
  - **Commercially applicable Government research and development**
  - **Standards for network security**

Network Security Task Force

## Recommendations for Follow-On NSTAC Actions (Continued)

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- Charge the Funding and Regulatory Working Group (FRWG) to address the legal and regulatory constraints that inhibit exchange of network security information, focusing on:
  - Law enforcement responsibilities
  - Information exchange between companies

*Mr. Wohl stated asked if they did or would be appropriate to do a physical security threat study.*

**Network Security Task Force**

**IES Recommendations to NSTAC**

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- **Approve and forward Network Security Task Force Report to the President**
- **Approve proposed NSTAC XII charges to the IES**

## Network Security Task Force

# Proposed NSTAC XII Charges to IES

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- **Establish a follow-on Network Security Task Force to work closely with and in support of the Government Network Security Subgroup and to:**
  - **Identify a mechanism for security information exchange, and produce an implementation plan**
  - **Recommend how to improve flow of intelligence to industry**
  - **Recommend what network research and development is needed**
  - **Examine activities on industry-wide standards for network security and make recommendations**
  - **Report results by NSTAC XIV**

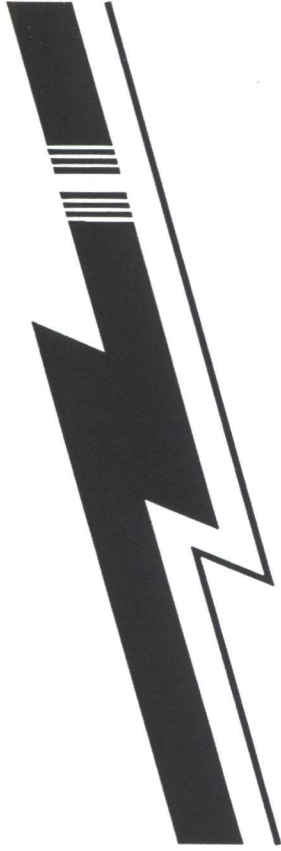
**Network Security Task Force**

**Proposed NSTAC XII  
Charges to IES (Continued)**

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- **Task the FRWG to:**
  - **Identify the real and perceived legal and regulatory constraints that inhibit exchange of network security information as follows:**
    - .. **Inter-company exchange**
    - .. **Industry-Government exchange**
  - **Recommend ways to reduce/eliminate constraints and to facilitate needed exchange of information**

**INDUSTRY EXECUTIVE SUBCOMMITTEE (IES)**



NATIONAL SECURITY  
TELECOMMUNICATIONS  
ADVISORY COMMITTEE

# INDUSTRY EXECUTIVE SUBCOMMITTEE (IES) REPORT

DECEMBER 13, 1990

Industry Executive Subcommittee (IES)

## Overview

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- **Intelligent Networks**
- **Underground Storage Tanks (UST)**
- **Assured Access**

Industry Executive Subcommittee (IES)

## **Intelligent Networks (IN)**

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- **Intelligent Networks Task Force report presented at November IES meeting**
- **Report needs further consideration**
- **Report referred to OWG**
- **Present evaluation results at NSTAC XIII**

## Underground Storage Tanks (UST)

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- Tasked to review Energy Task Force recommendation to pursue UST waiver from EPA
  - Conducted informal LEC/IC survey and investigated Federal and State regulations
- Concluded:
  - EPA waiver would not affect tank upgrade program
  - Tank replacement and downsizing program is economical for industry
- Does not recommend pursuing a waiver of EPA UST regulations
- Supports implementation of the other five Energy Task Force recommendations

## **Assured Access**

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- **Tasked to investigate regulatory impediments to providing assured access to PSN**
  - **Received briefings on technical and regulatory issues**
  - **Examined the regulatory impediments associated with automatic call rerouting**
- **Government expressed need for enhanced call completion capability for NS/EP traffic to include assured access, priority access, transport, and termination**
- **Recommended establishment of Enhanced Call Completion Task Force**

Industry Executive Subcommittee (IES)

## **IES Recommendation to the NSTAC**

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**Approve proposed NSTAC XII charge to the IES**

## **Proposed NSTAC XII Charge to the IES**

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- **Establish Enhanced Call Completion Task Force to:**
  - **Define enhanced call completion**
  - **Identify technical approaches/requirements for enhanced call completion**
  - **Investigate technical aspects of automatic call rerouting**
  - **Identify and evaluate alternatives to enhance existing NCS programs and initiatives, especially TSP**
  - **Assess impact of enhanced call completion on PSN**
  - **Recommend an enhanced call completion plan of action for near and long-term enhancements**
  - **Report findings and recommendations by NSTAC XIV**

**GOVERNMENT ACTIVITIES**



# **GOVERNMENT ACTIVITIES**

**LTG THURMAN D. RODGERS  
MANAGER, NCS**

**DECEMBER 13, 1990**



## Government Activities

# Overview

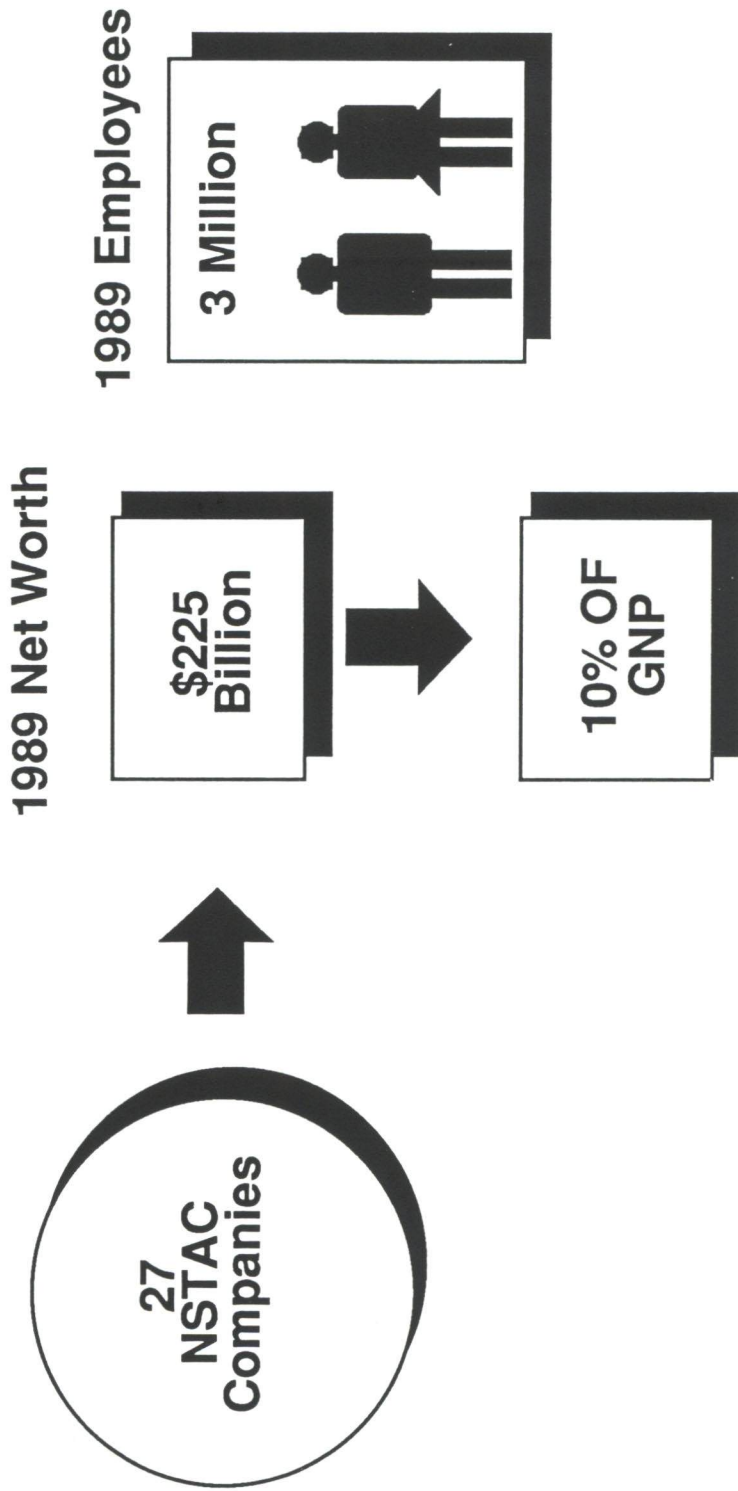
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- **NSTAC Contribution**
- **National Coordinating Center (NCC)**
- **Government Network Security**
- **National Level NS/EP Telecommunications Program (NLP)**
- **Other NCS Programs and Initiatives**



Government Activities

# NSTAC Contribution





Government Activities

## National Coordinating Center (NCC)

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- Established January 1984
- Joint industry-government operation that responds to NS/EP telecommunications requirements
- First national security emergency – Operation Desert Shield



Government Activities

## National Coordinating Center (NCC)

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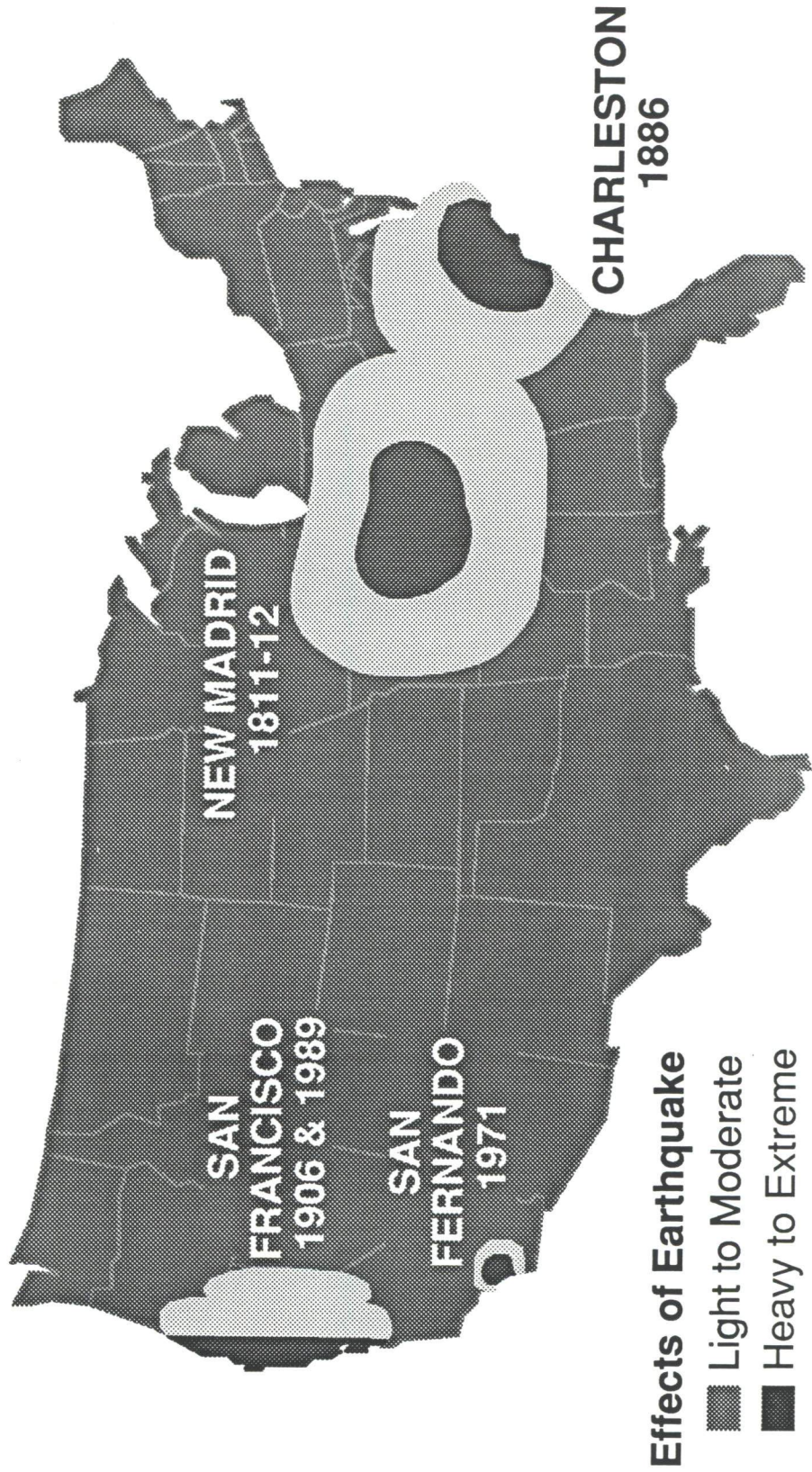
### Operation Desert Shield

- 301 circuits/services
  - 114 emergencies
- Extensive coordination with international carriers
- Installation of high level diplomatic circuits



Government Activities

# Magnitude of U.S. Quakes





Government Activities

## Government Network Security

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**April 23, 1990 memo from Chairman, Policy Coordinating Committee on National Security Telecommunications and Information Systems to Manager, NCS**

**Concern: Denial of service in PSN and unauthorized access**

**Tasking: Determine action needed for Government and industry**



## Government Activities

# Government Network Security Actions

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### Actions to date:

- Convened Government Network Security Subgroup
  - NSC, FBI, USSS, OMB, OSTP, OSD, NSA, DIA, NIST, FCC, GSA
  - Established panels to address technology and intelligence warning
  - Evaluating concepts for network security focal point
- Working closely with NSTAC task force



Government Activities

## **National Level NS/EP Telecommunications Program (NLP)**

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**NLP consolidates current NCS infrastructure  
enhancements**

- **Nationwide Emergency Telecommunications  
Service (NETS) Program**
- **Commercial Network Survivability (CNS)  
Program**
- **Commercial SATCOM Interconnectivity (CSI)  
Program**



Government Activities

## National Level NS/EP Telecommunications Program (Cont.)

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### NETS Program

- Cornerstone of the NLP program
- Designed to support NS/EP users  
CONUS-wide
- FY91 funding approved by EOP
- IOC - FY94
- FOC - FY95
- Competitive acquisition - FY91



Government Activities

## National Level NS/EP Telecommunications Program (Cont.)

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### CNS Program

- NSTAC initiative - EOP approved FY91 funding
- Implements interconnects within one commercial carrier network or among multiple networks
- Major components
  - Carrier interconnect
  - Mobile transportable telecommunications



Government Activities

## National Level NS/EP Telecommunications Program (Cont.)

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### CSI Program

- **NSTAC initiative - EOP approved FY91 funding**
- **Establishes post-attack long haul digital interconnects**
- **13 earth stations operational, 20 by FY92**
- **Contracts awarded and services accepted for two interoperable telemetry, tracking and command terminals**



Government Activities

## Other NCS Programs and Initiatives

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- **Telecommunications Service Priority (TSP)**
- **National Telecommunications Management Structure (NTMS)**
- **National Transportable Telecommunications Capability (NTTC)**



Government Activities

# Telecommunications Service Priority (TSP)

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Restore and install telecommunication services to  
NS/EP users on a priority basis

- IOC - September 1990
- FOC - FY93
- TSP supports Operation Desert Shield
- TSP Oversight Committee expected to convene early spring 1991



Government Activities

## National Telecommunications Management Structure (NTMS)

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- IOC achieved in October 1990 with validation of first regional coordinating center (RCC) in Massachusetts
- Second and third RCCs to be implemented in Washington State and Texas in 1991



Government Activities

# National Transportable Telecommunications Capability (NTTC)

