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001. briefing paper	Re: National Security Telecommunications Advisory Committee [partial] [National Security Act] (1 page)	05/27/1993	P3/b(3)

COLLECTION:

Clinton Presidential Records
Office of Science and Technology Policy
O'Neil, John
OA/Box Number: CF 99

FOLDER TITLE:

National Security Telecommunications Advisory Committee

2008-1524-F
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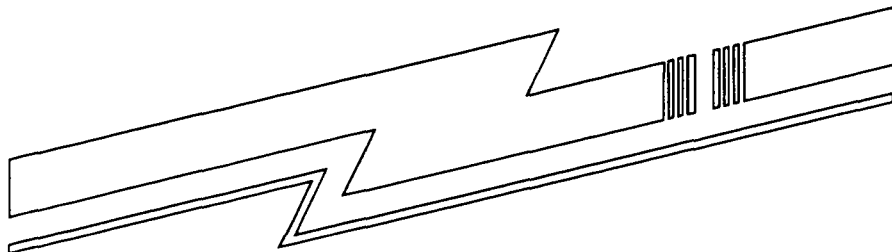
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NATIONAL SECURITY TELECOMMUNICATIONS
ADVISORY COMMITTEE





NATIONAL SECURITY TELECOMMUNICATIONS ADVISORY COMMITTEE

May 27, 1993

**FOR FURTHER INFORMATION
CONTACT:
MANAGER, NATIONAL
COMMUNICATIONS SYSTEM
701 SOUTH COURTHOUSE ROAD
ARLINGTON, VA 22204
ATTN: NCS-NJ**



**NATIONAL SECURITY
TELECOMMUNICATIONS
ADVISORY COMMITTEE**

ENERGY TASK FORCE

May 27, 1993

Energy Task Force

Task Force Members

Mr. Stan Welland, GE – Chairman

**AT&T
Bellcore
COMSAT
CSC
GTE
ITT
MCI
Martin Marietta
Sprint
US West**

**Mr. Dave Bush
Mr. Randy Schulz
Mr. Ernie Wallace
Mr. Guy Copeland, Mr. Bob Brownfield
Mr. Jim Bean
Mr. Joe Gancie
Mr. Tim Rodgers, Mr. Joe Cassano
Mr. Jerry Komlos
Mr. Jay Nelson*
Mr. Jon Lofstedt**

Government Agency Participant:

DOE

Mr. Stan Trumbower, Mr. Glenn Coplon

***Former member**

Energy Task Force

NSTAC XIII Charge to the Energy Task Force

- **Develop criteria for identifying critical industry NS/EP telecommunication facilities that qualify for:**
 - **Priority electric service restoration**
 - **Priority fuel distribution**
- **Develop process for applying criteria to identify critical industry NS/EP telecommunication facilities**
- **Provide the OMNCS with the criteria and process**
- **Review the National Energy Strategy (NES) from the perspective of benefits to NS/EP telecommunication enhancements**
- **Develop NS/EP telecommunication energy concerns/issues for incorporation into DOE's next issue/update of the NES**
- **Provide final report to NSTAC XV.**

Energy Task Force

Criteria for Identifying Critical Industry NS/EP Telecommunication Facilities

- Category I.** Network facilities or elements essential to monitoring, controlling, or supporting network operations, e.g., network management control centers, operations support systems, signaling network elements.
- Category II.** All switching nodes identified by the OMNCS (or as modified by the carriers) that serve essential NS/EP end users in local exchange carrier (LEC) or interexchange carrier (IC) networks, e.g., end offices, access tandems, IC switches, international gateways.
- Category III.** Other network elements (not identified in Categories I or II) essential to network operation for call completion, e.g., regenerators, identified by service vendors.

Energy Task Force

Elements of the Final Report

- **Electric service priority (ESP) restoration**
 - **Department of Energy Telecommunications ESP (TESP) initiative**
- **Priority fuel resupply**
 - **State of California**
 - **State fuel set-aside programs**
- **Emergency response (coordination and access)**
 - **National Communications System Regional Manager Program**
 - **Federal Emergency Management Agency**
 - **Department of Transportation**
- **Telecommunications Service Priority (TSP) System**
- **National Energy Strategy (NES)**

Energy Task Force

Conclusions – Volume I

- **Electric power industry in general has not included the telecommunications industry in its priority service restoration plans.**
- **Task force supports DOE's TESP initiative.**
- **Electric utilities need to recognize the urgency of a TSP provisioning priority.**
- **Existing Federal and State plans need to be considered further with respect to supporting telecommunications as a priority in disaster response and recovery in the following areas:**
 - **Access to disaster areas must be ensured. DOE has recommended that States review their plans.**
 - **Priority access to fuel must be established.**

Energy Task Force

Conclusions – Volume I (concluded)

- The State of California's Utilities Policy Committee is an example of an effective emergency response structure.
- The *Federal Response Plan* and the *National Plan for Telecommunications Support in Non-wartime Emergencies* do not adequately address TESP, fuel resupply, access, and safety issues. 
- The FHWA amendments of the Federal Motor Carrier Safety Regulations, published July 1992, address the telecommunications industry concerns.
- Special requests for transportation priority of telecommunication personnel/supplies during an emergency have not been coordinated with the appropriate DOT Regional Emergency Transportation Coordinator (RETCO).

Energy Task Force

Conclusions – Volume II

- **The National Energy Strategy (NES) does not address energy survivability as a specific objective.**
- **Improvements in power survivability can be gained by reducing physical transmission and distribution vulnerabilities.**
- **The NES does not address R&D for telecommunications backup power.**
- **There is a lack of cooperative R&D between the U.S. national laboratories and telecommunication companies regarding alternative forms of backup power technologies.**

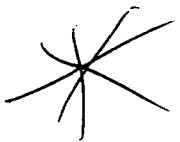
Energy Task Force

Proposed Recommendations to the President

- **The Government should:**
 - **Continue to support the operation, administration, and management of DOE's TESP initiative.**
 - **Assign Federal responsibility for the establishment of a program to ensure priority availability of fuel supplies for telecommunication companies during emergencies.**
 - **Encourage the Nation's electric utilities to coordinate with telecommunication companies to provide safe access to disaster areas requiring Telecommunications Service Priority (TSP) provisioning or restoration.**

Proposed Recommendations to the President (continued)

- The Government should:
 - Encourage State and local governments to modify their emergency plans to allow telecommunications, electric utility, and fuel supply companies access into impacted areas.
 - Modify the *Federal Response Plan* and the *National Plan for Telecommunications Support in Non-wartime Emergencies*, to include TESP and to address emergency fuel resupply, access, and safety issues.



Energy Task Force

Proposed Recommendations to the President (concluded)

- **To address the improvement of electric power survivability under disaster conditions, the President's National Energy Strategy should:**
 - **Increase R&D and incentives to reduce transmission and distribution vulnerabilities**
 - **Evaluate locating dispersed power generation closer to customer loads as a possible means of further reducing transmission and distribution vulnerabilities**
 - **Focus more R&D on alternative backup power technologies for the telecommunications industry by encouraging cooperative R&D agreements between the U.S. national laboratories and interested telecommunication companies.**



Energy Task Force

IES Recommendations to the NSTAC

- **Approve proposed NSTAC recommendations to the President**
- **Approve and forward Energy Task Force Final Report to the President**

Energy Task Force

Proposed NSTAC XV Charges to the IES

- **Deactivate the Energy Task Force**
- **Request progress reports from the Government on the status of the recommendations**

NETWORK SECURITY STEERING COMMITTEE (NSSC)



**NATIONAL SECURITY
TELECOMMUNICATIONS
ADVISORY COMMITTEE**

NETWORK SECURITY STEERING COMMITTEE (NSSC)

May 27, 1993

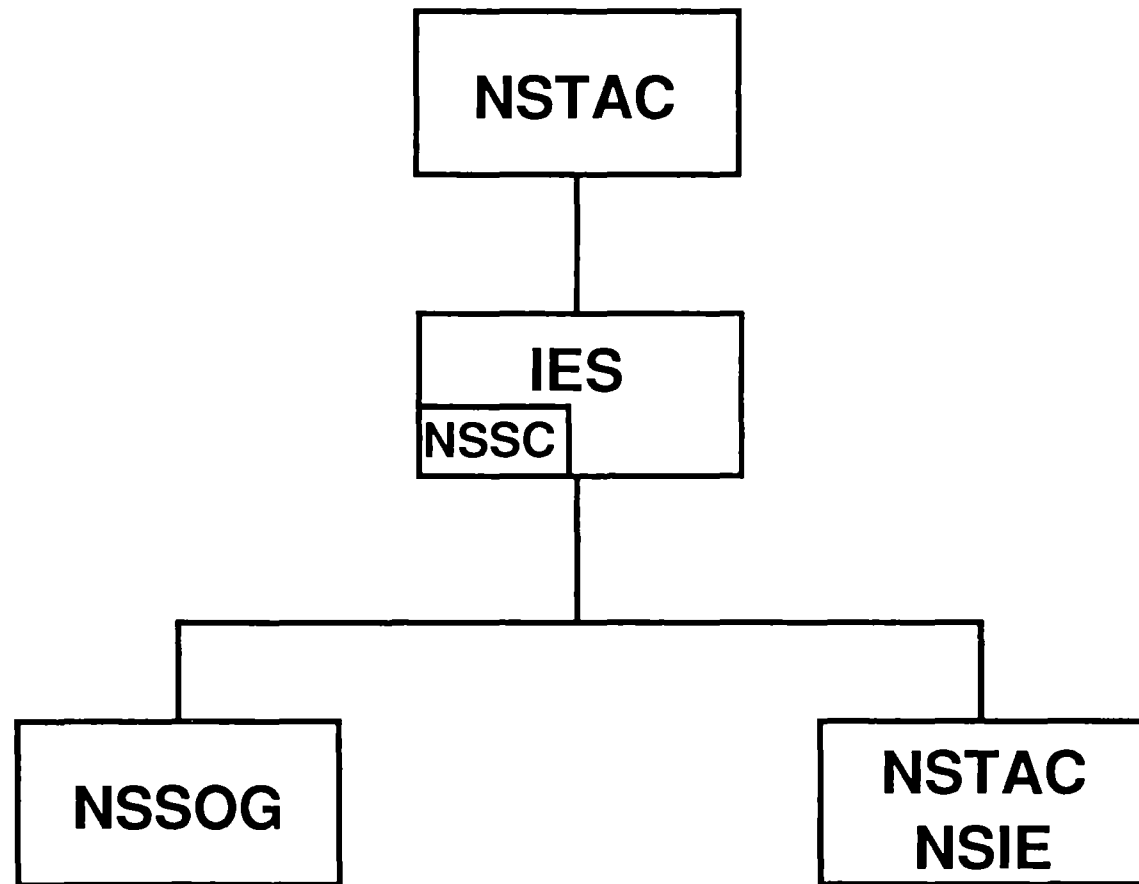
Network Security Steering Committee

NSTAC XIV Charges to the IES

- I. In view of the importance of the network security area, continue network security activities as follows:**
 - Oversee the Network Security Information Exchange (NSIE) and make recommendations about NSIE follow-on**
 - Establish and oversee the NSTAC Network Security Standards Oversight Group (NSSOG)**
 - Continue involvement in R&D information exchange**
 - Represent the NSTAC on NSIE matters to:**
 - FCC's Network Reliability Council**
 - Deputy Manager, OMNCS, and Government Network Security Subgroup**
 - Support other network security issues as required**
- II. Deactivate the Network Security Task Force**

Network Security Steering Committee

NSTAC Network Security Relationships



Network Security Steering Committee

NSSC Members

Mr. Herb Benington, UNISYS – Chairman

**AT&T
Bellcore
Boeing
GTE
MCI
Motorola
NTI
Rockwell**

**Mr. Dick Lombardi
Mr. Carl Ripa
Mr. Bob Steele
Mr. Lowell Thomas
Mr. Frank Kozel, Jr.
Mr. Erling Rasmussen
Dr. Jack Edwards
Mr. Charles Harrison**

Network Security Steering Committee

Status of the NSSOG

- **In January 1993:**
 - **President identified National Institute of Standards and Technology (NIST) as focal point**
 - **IES approved NSSOG Chair**
- **NSSOG met on February 25-26 and April 26-27**
 - **Defined scope**
 - **Planned strategy**
- **It will work through:**
 - **Companies and their standards representatives**
 - **NSSOG leadership interacting with standards-setting bodies**
- **Will meet again on July 15, 1993**

Network Security Steering Committee

Status of the NSIE

- **NSTAC NSIE has met 6 times since the last NSTAC**
- **Subject matter experts meetings undertaken**
- **Products developed in the course of activities:**
 - **Digital Cross-Connect System Security Evaluation Aid**
 - **Report on Deficiencies of Computer Crime Legislation**
- **Industry NSIE gave input on NSIE evaluation**
 - **Member companies value NSIE activity**
 - **Government participation is beneficial**
- **Future events planned**
 - **Packet-switched network meeting – 7 Jun 1993**
 - **Network Security Symposium – 5-7 Dec 1993**

Computer Crime Legislation – Background

- **Government and NSTAC NSIEs recognize deficiencies in Federal Computer Crime laws**
 - **Identified areas of deficiency**
 - **Recommended Administration propose high priority legislative changes**
 - **Manager, National Communications System:**
 - **Will ask National Security Council to seek President's support**
 - **Hopes for congruent but independent industry position**

Network Security Steering Committee

Identified Deficiencies

- **Protection of data lags protection of voice**
- **Intrastate crimes can have interstate effect**
- **Financial criteria inappropriate**
- **Language needs broadening, about unauthorized actions**
- **Accessibility to electronic records threatens privacy**
- **Cellular not adequately protected**

Findings on Federal Computer Crime Laws

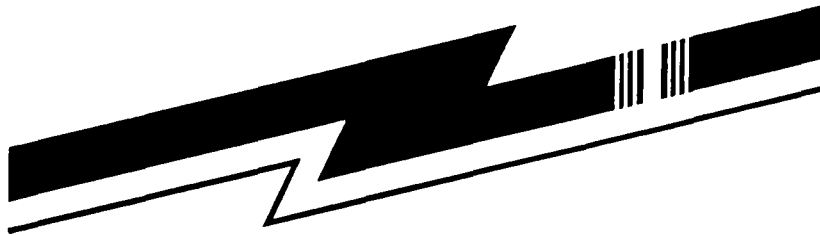
- **Telecommunications needs protection equivalent to financial institutions, medical records, and consumer reporting agencies**
- **Deterrent effect on electronic intruders could be increased through strong law to prosecute crimes**
- **Executive Branch, with support from industry, should work to draft legislation**
- **NSTAC stands ready to assist the Executive Branch**

Network Security Steering Committee

Proposed Recommendation to the President

Correct the legislative deficiencies affecting the capability to gather evidence about computer crimes and to prosecute and convict computer criminals who target computers that support the national telecommunications infrastructure.

NS/EP PANEL: INDUSTRY SUCCESSES IN RECENT DISASTERS



**NATIONAL SECURITY
TELECOMMUNICATIONS
ADVISORY COMMITTEE**

**OPERATIONS WORKING GROUP
NATIONAL SECURITY AND
EMERGENCY PREPAREDNESS (NS/EP)
PANEL**

**Telecommunications Performance
Hurricanes Andrew and Iniki**

May 27, 1993

National Security and Emergency Preparedness Panel

Overview

- **NS/EP Panel Purpose**
- **Telecommunications Performance for Hurricanes Andrew and Iniki**
- **Key Findings**
- **Progress Report**
- **Conclusions**
- **Recommendations**

National Security and Emergency Preparedness Panel

Purpose

- **Operations Working Group – NS/EP Panel**
- **Provide a continuing evaluation of the overall readiness and responsiveness of NS/EP telecommunications capabilities**
- **Focus . . . telecommunications response to Hurricanes Andrew and Iniki**

National Security and Emergency Preparedness Panel

NS/EP Panel Members

Mr. Carl Ripa, Bellcore – Chairman

AT&T

Bellcore

GTE

MCI

McCaw Cellular

PTI

Mr. Dave Bush

Mr. Randy Schulz

Ms. Ernie Gormsen,

Mr. Lowell Thomas

Mr. Tom Will,

Mr. Tim Rodgers

Mr. Myron Proefrock

Mr. Frank Adams

Government Agency Participants:

DoD

FEMA

NCS/NCC

Mr. Bob Anderson

Mr. Paul Maison

Mr. Bill Belford,

Mr. John Christensen

National Security and Emergency Preparedness Panel

Hurricanes Andrew and Iniki

- **Significant Natural Disasters**
 - **Major telecommunications response required**
 - **Federal assistance requested**
 - **Substantial military support**
- **Concurrent events**
 - **Florida, Louisiana, Hawaii, Guam**
 - **Focus is Florida and Hawaii**

National Security and Emergency Preparedness Panel

Key Briefings

Bell South

GTE

McCaw Cellular

Sprint

MCI

FEMA

GSA

NCS/NCC

Mr. Bob Burns

Ms. Ernie Gormsen

Mr. Myron Proefrock

Mr. Nick Yosick

Mr. Tom Will

**Mr. Bruce Campbell,
Mr. Tom Antush**

Mr. Guy Darden

Mr. Bill Belford

National Security and Emergency Preparedness Panel

Florida



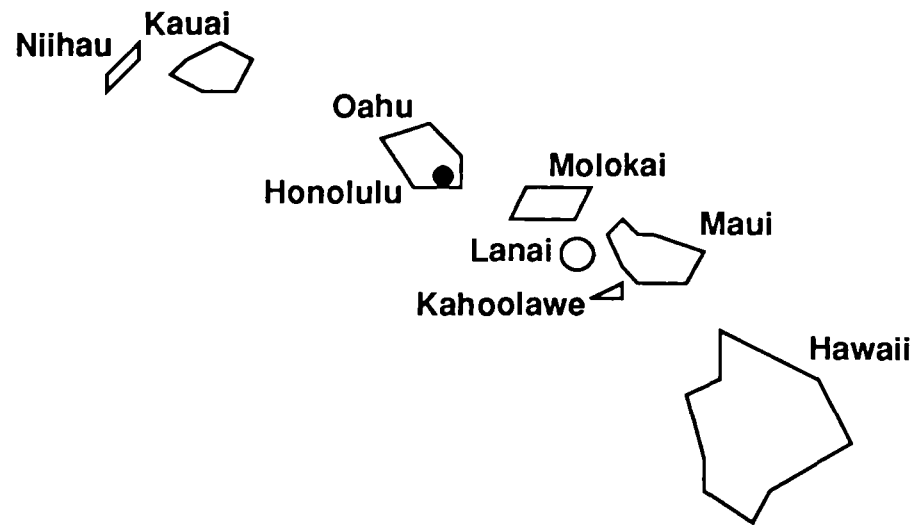
National Security and Emergency Preparedness Panel

Hurricane Andrew

- **August 24, 1993**
- **145 mph winds**
- **Southern Dade County, Florida**
- **Power Distribution Disrupted**
- **Telecommunications Infrastructure Survived**
- **Outside Plant Heavily Impacted**
- **Cellular Heavily Impacted**
- **4,306 Disaster Response TSP Circuits/Services Requested**

National Security and Emergency Preparedness Panel

Hawaii



National Security and Emergency Preparedness Panel

Hurricane Iniki

- **September 11, 1992**
- **180 mph winds**
- **Kauai, Hawaii**
- **Power Distribution Disrupted**
- **Telecommunications Infrastructure Impacted**
- **Outside Plant Heavily Impacted**
- **61 Disaster Response TSP Circuits/Services Requested**

National Security and Emergency Preparedness Panel

Key Findings

- **First response...State and local government**
- **Severe damage...massive Federal response**
- **New Federal Response Plan**
- **Major telecommunications industry response**
- **Restoration coordination with power companies essential**
- **Telecommunications Service Priority**
 - **Established under NSTAC sponsorship**
 - **Provided mechanism to set priorities**
 - **Over 4,000 circuits/services managed**
 - **Worked well**

National Security and Emergency Preparedness Panel

Key Findings (concluded)

- **Cellular**
 - **Severely impacted...quickly restored**
 - **Capacity rapidly increased**
 - **Access prioritization needed**

- **Overall**
 - **Government and industry telecommunications response...a success**
 - **Mutual aid processes worked well**

Conclusions

- **Consider Federal Response Plan a “living document”**
- **Federal, State, and local governments and industry cooperation critical**
 - **Joint planning for the Disaster Field Office (DFO)**
 - **Early coordinated damage assessment**
 - **Energy provider coordination**
 - **Unique military requirements coordination**
- **Telecommunications Service Priority**
 - **Emphasis on provisioning emergency service**
 - **Emergency service demand**

National Security and Emergency Preparedness Panel

Conclusions (concluded)

- **Substantial military role in disaster response**
 - **Plan interconnection needs**
 - **Coordinate at the DFO**
- **Cellular**
 - **Vital tool for emergency response**
 - **Access demand overwhelming**
 - **NS/EP priority access needed**
- **Going forward together**
 - **Plan**
 - **Train**
 - **Rehearse**

National Security and Emergency Preparedness Panel

Progress Report

- **Federal Response Training (ESF #2, Communications)...in progress**
 - **Federal, State, and local governments, industry**
 - **FEMA Region IV (Atlanta) first**
 - **Other regions to follow**
- **TSP Oversight Committee...started**
 - **Increase State, and local awareness**
 - **Include TSP in planning and exercises**
- **Energy Task Force Report...recommended**
 - **Department of Energy sponsoring TESP initiative**
 - **Fuel resupply coordination with cognizant State entities**
 - **Service restoration access coordination with power companies**

National Security and Emergency Preparedness Panel

Progress Report (concluded)

- **Wireless Task Force...in progress**
 - **Cellular access prioritization**
- **National Coordinating Center for Telecommunications...in progress**
 - **Participant in multi-agency FRP review**
 - **Sponsoring training**
 - **Exercise plans**

Proposed Recommendations to the President

- **The Federal Government should support continuing update of the Federal Response Plan, especially Emergency Support Function #2 (Communications) using 1992 experiences.**
- **To promote better understanding of the Federal Response Plan, the Federal Government should ensure that training of Federal, State, local, and industry personnel remains a high priority.**



**NATIONAL SECURITY
TELECOMMUNICATIONS
ADVISORY COMMITTEE**

INDUSTRY EXECUTIVE SUBCOMMITTEE (IES)

May 27, 1993

Industry Executive Subcommittee

Overview

- **Enhanced Call Completion Ad Hoc Group**
- **Wireless Services Task Force**
- **IES – OMNCS – COP Ad Hoc Issues Group**
- **Working Groups**
 - **New NSTAC Issues**

Industry Executive Subcommittee

Enhanced Call Completion Ad Hoc Group

- **ECC Features Demonstration**
- **Activation of the HPC Condition**
 - **Identification of an NS/EP Call**
 - **Exemption from Network Management Controls**
- **ECC Regulatory Issues**

Industry Executive Subcommittee

Wireless Services Task Force Focus Areas

- **Priority Access**
- **Federal Response Plan**
- **Wireless Standards**

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Industry Executive Subcommittee

IES – OMNCS – COP Ad Hoc Issues Group

Members

Mr. Dick Lombardi, AT&T – Chairman

NSTAC IES

Mr. Carl Ripa, Bellcore
Mr. Ernie Wallace, COMSAT
Mr. Lowell Thomas, GTE
Mr. Jack Taylor, InterDigital
Mr. John Hocker, MMC
Dr. Jack Edwards, NTI

OMNCS

Mr. Ben Morriss, NA
Mr. Ken Boheim, NP
Dr. Dennis Bodson, NT
Col Leroy Faust, NE
CAPT Harvey Gannon, NJ

NCS COP

(b)(3) [OOT]
Mr. Roger Cooper, DOJ
Dr. Neil Stillman, HHS
(b)(3)
Mr. Dick Parlow, NTIA
Mr. Bill Bischoff, DOS

Industry Executive Subcommittee

IES – OMNCS – COP Ad Hoc Issues Group

- **National Information Infrastructure Issue**
- **Standards Liaison Panel**

Industry Executive Subcommittee

Plans Working Group

- **National Information Infrastructure Issue:**
 - **Scope the National Information Infrastructure issue to determine if task force study is required.**
 - **Study the national network architecture and its relation to the President's plan of February 22, 1993 (*Technology for America's Economic Growth, A New Direction to Build Economic Strength*), as well as the use of that national network architecture to serve as a national security telecommunications system for emergency preparedness (dual use).**

Industry Executive Subcommittee

Operations Working Group

- **Standards Liaison Panel**
- **Common Channel Signaling Task Force**

Industry Executive Subcommittee

OWG Standards Liaison Panel

- **Address NS/EP telecommunications standards other than network security**
- **Focus identified standards issues**
- **Obtain assistance from industry standards experts**
- **Seek to influence national and international standards organizations to develop standards that meet NS/EP requirements**

Industry Executive Subcommittee

Common Channel Signaling Task Force

- **Determine if there are failure mechanisms that could potentially lead to widespread, long duration CCS outages among multiple interconnected carriers**
- **Evaluate the risk to NS/EP user telecommunications**
- **If significant risk exists, examine procedural or technological alternatives for mitigating it**
- **Present appropriate recommendations to NSTAC XVI**

Industry Executive Subcommittee

Funding and Regulatory Working Group

- **New FRWG Chairman:**
 - **Mr. Ronald R. Beaumont,
Metropolitan Fiber Systems**
- **Issues:**
 - **Cellular Priority Access**
 - **ECC Call-by-Call Priority Treatment**

Notes

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