

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

Princeton Forrestal Village, 116-390 Village Boulevard, Princeton, New Jersey 08540-5731

Critical Infrastructure Protection Committee Meeting

September 29–30, 2005

Denver, Colorado

Draft Minutes

A regular meeting of the Critical Infrastructure Protection Committee (CIPC) was held on September 29–30, 2005 in Denver, Colorado. The meeting notice, agenda, and attendance list are affixed as **Exhibits A, B, and C**, respectively. Meeting presentations that are publicly available may be found at: <http://www.nerc.com/~filez/cipmin.html>.

Chairman Stuart Brindley presided.

Secretary Stanley Johnson announced that a quorum was present and confirmed the following proxies:

- 1) Todd Thompson for Tom Bowe.
- 2) Joe Doetzl for Larry Dolci.

Antitrust Guidelines

The secretary reviewed the NERC Antitrust Compliance Guidelines.

Introductions

The committee members and guests introduced themselves.

Logistics

The secretary reviewed the meeting arrangements, site requirements, and agenda adjustments required by individual's availability.

Parliamentary Procedures

The secretary reminded the attendees of the use of proper parliamentary procedures and the scheduled election of officers at the meeting.

Agenda

The CIPC members approved the meeting agenda moved by Bob Beahm, seconded, and passed with no dissenting votes.

A New Jersey Nonprofit Corporation

Phone 609-452-8060 ■ Fax 609-452-9550 ■ URL www.nerc.com

Minutes

The CIPC members approved the minutes of the June 9, 2005 meeting, moved by Bob Windus, seconded, and passed with no dissenting votes.

CIPC Nominating Task Force Report

Roger Lampila presented the report from the Nominating Task Force. He explained the task force's process as it reviewed the positions of chairman and vice chairman. He moved the nomination of Stuart Brindley as chairman. He also moved the nomination of Pat Laird and Larry Bugh as vice chairmen. The task force will be ready to nominate a slate for non-officer members of the Executive Committee at the December CIPC meeting .

Election of CIPC Officers for 2006–2007

The election of officers was conducted by the secretary with the chairman's position first, followed by the two vice chairman positions.

For the chairman position, the secretary solicited nominations from the floor. None were received. Bob Windus moved nominations be closed. A second was received. Stuart Brindley was elected chairman by acclamation.

For the vice chairmen positions, the secretary solicited nominations from the floor. Mike Lynch nominated Barry Lawson. Bob Windus moved nominations be closed. A second was received. On the first ballot, 31 members cast votes and Pat Laird received more than the required two-thirds of votes cast and was duly elected. Four additional ballots were conducted with neither candidate receiving the required two-thirds of the votes cast. Larry Bugh then generously conceded to Barry Lawson. A motion to commend Larry Bugh for his excellent work as the committee vice chairman was made by Bob Canada, second, and unanimously approved.

CIPC Executive Committee Report

Chairman Brindley reviewed the recent activities of the Executive Committee. He reviewed the NERC Board of Trustees meeting held on August 2, 2005, and the Stakeholders meeting held on August 1, 2005.

He discussed the proposed formation of the ReliabilityFirst region and indicated CIPC membership will remain unchanged for the immediate future.

He discussed the functioning of the Executive Committee as the Electric Sector Coordinating Council and the meetings that have been held with the Electric Sector Government Council including representatives from the U.S. Department of Energy (DOE), U.S. Department of Homeland Security, and the U.S. Federal Energy Regulatory Commission. He mentioned the letter sent to DOE by Mike Gent as the industry's response to the sector specific National Infrastructure Protection Plan.

He closed by reviewing his draft letter to the regional managers and associations to solicit member nominations for CIPC by the end of 2005 as required by the CIPC Charter. He asked the CIPC members to review the letter and return any comments or suggestions by October 6, 2005.

NERC Report

Lou Leffler presented the NERC report and discussed:

- 1) New President and CEO Rick Sergel named August 12, 2005.
- 2) Operating Committee investigating Eastern Interconnection frequency excursions.
- 3) New Brunswick Province will be added as a reliability coordinator.
- 4) The September 12 outage involving significant portion of Los Angeles. WECC is conducting an investigation.
- 5) Concerns about natural gas availability due to the hurricanes coupled with coal availability due to rail system limitations in the Powder River Basin area. The Reliability Assessment Subcommittee will include consideration of the situation in its upcoming winter assessment.
- 6) The e-tag incident in August and the report prepared by Jeff Dagle of Pacific Northwest National Laboratories. A report is being prepared for the electric sector.

Electric Sector Information Sharing and Analysis Center (ESISAC) Report

Lou Leffler reviewed the recent activity of the ESISAC.

- 1) Hurricanes Katrina and Rita have generated considerable activity for the ESISAC. Daily calls have been conducted with DOE, DHS, and FERC. Also, daily calls with other critical infrastructure ISACs have aided in the information sharing between sectors. Superb cooperation was received from SERC, ERCOT, SPP, and FRCC regions throughout the events. The impacted electric sector organizations were commended for their restoration performance and cooperation.
- 2) Government Emergency Telecommunications Service (GETS) — CIPC members were encouraged to request cards prior to a forecast emergency. A call to Lou Leffler or Stan Johnson can initiate the process to obtain cards.
- 3) Upcoming Exercises:
 - a) Cyber Storm will be a DHS-sponsored nationwide exercise including several critical infrastructures in the later part of 2005 or early 2006. Anyone interested in participating should contact Lou Leffler.
 - b) Blue Cascade 3 — a major regional exercise is also planned for later 2005.
- 4) Critical Infrastructure Warning Information Network (CWIN) — This network is being deployed to the NERC reliability coordinators. This network is intended to be a backup to the existing hotline and not its replacement. A memorandum of understanding, training, and testing for this reliable communications system will be provided.

Homeland Security Information Network (HSIN) Update

The HSIN development team, led by Carl Eng, presented an update on its progress. The team is working on user authentication and portal features. Issues regarding confidentiality of information, entity control of the information, protected critical infrastructure information issues, and how information will be submitted (by individual entity or through NERC) were all discussed. Most attendees agreed HSIN could create significant value by improving the cross-sector information sharing but numerous concerns remain. This topic will be a primary topic at the December CIPC meeting.

Threat Materials

Mike Peters, U.S. Department of Defense, distributed three manuals and three compact discs that address the threat environment. All materials are to be treated as For Official Use Only and should be shared with those involved in the electric sector with a “valid need to know.” Recipients are encouraged to comment on the value of the materials to Hank Kenchington (DOE), or Paul Carrier (DHS).

NERC President and CEO Address

Recently appointed NERC President and CEO Rick Sergel teleconferenced into the meeting and spoke with the committee about the future of NERC. He discussed the work in becoming recognized as the Electric Reliability Organization by FERC. He explained how CIPC and infrastructure security fits into the future and the critical importance of industry technical expertise contributing to NERC's committees as the electric sector moves into the future.

Working Groups and Task Forces 2005–2006 Plans

The chairs of the working groups and task forces presented a brief summary of their groups.

Group	Chair	Update
Reporting Technologies	C. Eng	<ul style="list-style-type: none">• Focused on HSIN• PCII issues
Outreach	W. Johnson	<ul style="list-style-type: none">• Planning CIP-002-009 workshops• Supporting regional CIP committees• Prepared media guidance document• HSIN training will be required
Security Guidelines	S. Harada	<ul style="list-style-type: none">• Organization issues• 15 of 18 guidelines need review
Control Systems Security	L. Nappier (T. Flowers)	<ul style="list-style-type: none">• Guidelines need revision
Indications, Alerts, Warning	L. Bugh	<ul style="list-style-type: none">• Version 4.2 approved• Version 5 due in March 2006
Risk Assessment	T. Heller	<ul style="list-style-type: none">• No report
Critical Spares	R. Niebo (M. Innocenzo)	<ul style="list-style-type: none">• Drill conducted in June• Procedures update• EEI STEP initiative under way
Crisis Response	S. Heffentrager (T. Bowe)	<ul style="list-style-type: none">• Scope prepared• Project plan approved

Public Messages and Media Guide

Wally Johnson briefly reviewed the public messages and media guide reference document prepared by the Outreach Working Group. The document was prepared in response to a request received at the June CIPC meeting. It includes input and review by Ellen Vancko, NERC's Director of Communication and Government Affairs. The document strongly encourages a partnership between the CIPC members and their local media relations professionals when responding to inquiries from the media on CIPC topics. These documents are available on the NERC Web site.

Standards and Guidelines Working Group

The working group recommended its name be changed to the Security Guidelines Working Group. The recommendation was moved by Barry Lawson, seconded, and approved by the committee.

The working group's recommendation to adjust its membership was tabled until a future meeting. Kevin Perry made the motion to table, it was seconded, and approved by CIPC. The CIPC Executive Committee and NERC staff will coordinate with the other NERC committees to clarify the process regarding working group and task force membership rules.

The working group's recommendation to revise the security guideline process flow as amended and approved. Kevin Perry moved, it was seconded, and approved by CIPC.

The working group's recommendation to approve the revised Security Guideline: Physical Response was moved by Barry Lawson, seconded, and approved by CIPC. Following the approval, Lyman Shaffer was recognized for his outstanding contributions in furthering NERC's CIP program.

At the conclusion of the working group's report, Seiki Harada, who will be retiring soon, was recognized for his outstanding leadership of the working group.

Critical Spares Task Force

Ron Niebo made the presentation for Chairman Mike Innocenzo who was unable to attend.

The task force recommended the acceptance of the June Spare Equipment Database (SED) drill report and the resulting recommendations. It was moved by Barry Lawson, seconded, and approved by CIPC. The committee directed the drill report be sent to all SED participants, CIPC members, and associates.

The task force recommended the revised SED procedure be approved. It was moved by Barry Lawson, seconded, and approved by CIPC.

Ken Hall of EEI presented an update on the Spare Transformer Equipment Program (STEP). The program is making excellent progress and CIPC members were encouraged to be supportive of the program and to solicit support across the industry.

CIPC directed the task force to take the initial steps beyond transformers and evaluate the NERC database's ability to contain other substation equipment and components. Considerable discussion followed about logistical issues involved in large substation components, the role of DHS, and DOE. Everyone agreed, however, to be fully supportive of the transformer initiative and address the other issues in parallel.

Recognition

For her leadership role in developing the Security Guideline – Patch Management for Control Systems, Linda Nappier was presented with a plaque for her outstanding contributions in furthering NERC's CIP program.

Electric Reliability Organization

Gerry Cauley made a comprehensive presentation about the Electric Reliability Organization (ERO) as envisioned by the U.S. Energy Policy Act of 2005. He discussed the changing role of FERC, the role of the provincial and federal governments in Canada, and the possible role of the Mexican government. He outlined the expected time lines for establishing the ERO and the critical intervening steps. His emphasis throughout was the need to maintain and improve the technical expertise in NERC, the regions, and the standing committees. His slides are publicly available on the NERC Web site.

Crisis Response Task Force

The task force recommended its scope document be approved by CIPC and work proceed according to the project plan. It was moved by Todd Thompson (proxy for Tom Bowe), seconded, and approved by

CIPC. CIPC directed the task force to engage with other NERC committees to encourage broad-based input and support for the initiative.

Recommended Executive Committee Change

In order to help assure continued active awareness of executive committee activities, including participation with the Electric Sector Coordinating Council, a CIPC scope amendment was moved by the executive committee (Stuart Brindley), seconded, and approved by CIPC. It will be forwarded to the NERC Board of Trustees for their approval and reads as follows:

“In addition, the CIPC Executive Committee includes, as non-voting participants, named representatives from American Public Power Association, Canadian Electricity Association, Edison Electric Institute, and National Rural Electric Cooperative Association.”

Committee, Working Group, and Task Force Participants

On October 19, 2005, CIPC Chairman Stuart Brindley will be sending out a letter to the NERC regional managers and the electric sector trade organizations asking for nominations of members for CIPC for the next two years. The letter will emphasize the need for members who are committed to make the required contributions to CIPC and its subgroups. The working group and task force chairs will also be expected to canvas their rosters to determine the level of interest in the work plans and the members' commitment to contribute. NERC President and CEO Rick Sergel spoke specifically to the need to keep the groups well staffed with a high level of technical expertise and fueled with the energetic, committed contributing members.

Indications, Analysis and Warnings

The program standard operating procedure was balloted by CIPC via e-mail and was approved on September 1, 2005 by a 24 yes to 1 no vote. The major program revision (Version 5.0) is now under development and is expected to be ready for CIPC consideration at the March 2006 meeting.

Cyber Security Standards CIP-002-009

Larry Bugh reported on the substantial progress on CIP-002-009. The enormous effort involved in creating eight critical cyber standards at the same time has become a labor of love for the drafting team. The team is driving hard for consensus and has decided on the following timeline:

- Draft 3 is final draft — 67 comments received
- 30-day pre-ballot review to start (January 16, 2006)
- Ballot to occur (February 15, 2006)
- NERC board approval target (May 2006)
- Effective date (June 1, 2006)

The implementation plan and schedule are being developed. CIP-002-009 will go to vote as a package.

The drafting team was commended for its work and results to date and encouraged to drive on to conclusion.

Agenda Items Postponed

Two items on the agenda were not covered. The first, laptop theft incident discussion will be on the December meeting agenda. The second, substation break-ins discussion has been dropped due to most break-ins are the result of petty vandalism or material theft and do not involve substantial threats to the critical infrastructure.

Outreach

Wally Johnson followed the cyber security standards discussion with the discussion about how to train the electric sector on the new standards. CIPC is supporting a train-the-trainer approach to this critical initiative. Teams with the necessary expertise will need to be formed. Training aids, including tapes, DVDs, canned PowerPoint presentations, will need to be considered for development. The Outreach Working Group will be soliciting assistance and ideas in the coming months and will be presenting its plan at the December CIPC meeting. Consistency and clarity are the main training objectives while presenting the authoritative interpretation of the standards.

Agency Reports

Public Safety Emergency Preparedness Canada (PSEPC) — Kara Yorke reviewed PSEPC's role in response to hurricanes Katrina and Rita. The Canadian Government Operations Centre (GOC) actively monitored the situation on a 24/7 basis, coordinated requests for assistance received from the United States and coordinated offers of assistance from the Canadian government and private sector. CIPC members Dave Norton and Kevin Perry both expressed appreciation for the assistance provided to those affected areas by the Canadian government. The GOC participated in two briefings a day during Katrina and one per day during Rita. The mutual assistance arrangements already in place were helpful in eliminating roadblocks to timely assistance.

Federal Energy Regulatory Commission (FERC) — Regis Binder presented an update. He complimented Gerry Cauley on his presentation on the ERO and for the presentation's accuracy, breadth, and depth. Mr. Binder discussed the many changes occurring at FERC as a result of the recent Energy Policy Act. He also provided some insight as to how FERC will move through the ERO approval process. He predicted there will be many contested issues and reminded CIPC that FERC will need to be ready to defend itself from a legal perspective on most issues.

Role of National Infrastructure Advisory Council

Bill Muston presented a valuable overview of the National Infrastructure Advisory Council and how the various industry sectors are working together and with the respective government agencies to develop a recognized framework for collaboration, respecting legal considerations including the Federal Advisory Committee Act.

Round Robin

Fred Hudson informed CIPC of some issues he and his company have been dealing with during the construction of a new substation. The local fire prevention authorities are interpreting the International Fire Code, 2003 issue to require access to the substation in a way that could compromise security. The issue will continue to be worked.

Bob Windus informed CIPC of a successful cooperative effort to obtain funds to install protective devices at three critical substations in King County. The effort involved collaboration between the Bonneville Power Authority, King County, and DHS.

Closing

Chairman Brindley closed the meeting at 11:30 a.m. on September 30, 2005.

Future Meetings

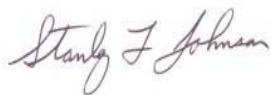
2005

- 1) Thursday (8 a.m. to 5 p.m.) – Friday (8 a.m. to noon), December 8–9, 2005; St. Petersburg, FL (coupled with NERC standing committees).

2006

- 1) Thursday (8 a.m. to 5 p.m.) – Friday (8 a.m. to noon), March 16–17, 2006; Phoenix, AZ (coupled with NERC standing committees and AGA/EEI Security Committee).
- 2) Wednesday – Thursday, June 21–22, 2006, Washington, DC (to include cleared briefing with DHS).
- 3) Thursday (8 a.m. to 5 p.m.) – Friday (8 a.m. to noon), September 14–15, 2006; Baltimore, MD, or Boston, MA (coupled with NERC standing committees and possibly with AGA/EEI Security Committee).
- 4) Thursday (8 a.m. to 5 p.m.) – Friday (8 a.m. to noon), December 7–8, 2006; Houston, TX (coupled with NERC standing committees).

Respectfully submitted,



Stanley L. Johnson
NERC Staff

Angie Nicastro**Exhibit A**

From: Rocio Wong [Rocio.Wong@nerc.net]
Sent: Thursday, August 04, 2005 3:42 PM
To: cipc_plus@nerc.com; nercroster@nerc.com
Subject: September 29-30, 2005 CIPC Meeting Announcement

TO: CRITICAL INFRASTRUCTURE PROTECTION COMMITTEE
NERC ROSTER

Dear Members:

I have attached the September 29-30, 2005 Critical Infrastructure Protection Committee meeting announcement and Web site registration link. You also can register online at the following Web sites:

<http://www.nerc.com/committees/>

<http://www.nerc.net/meetings/>

You MUST respond by September 5, 2005. EVERYONE must register online.

Please let me know if you have any questions regarding the registration process.

Sincerely,

Rocio Wong

Rocio Wong (<<mailto:rocio.wong@nerc.net>>)

Meeting Coordinator

North American Electric Reliability Council (NERC)

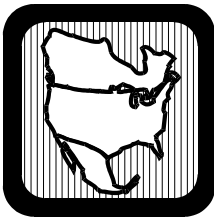
116-390 Village Blvd.

Princeton, NJ 08540

Phone: 609-452-8060

Fax: 609-452-9550

10/14/2005



NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

Princeton Forrestal Village, 116-390 Village Boulevard, Princeton, New Jersey 08540-5731

October 14, 2005

TO: CRITICAL INFRASTRUCTURE PROTECTION COMMITTEE
NERC ROSTER

Ladies and Gentlemen:

I have attached the meeting logistics and registration link for the September 29–30, 2005 Critical Infrastructure Protection Committee meeting in the table below. The meeting will be held at Hyatt Regency Tech Center, 7800 East Tufts Avenue, Denver, Colorado.

You can select the “details” link in the table to access the hotel information and select the “registration” link to register for the meetings.

You MUST respond by September 5, 2005. EVERYONE must register online.

Date & Time	Group	Staff	City	Registration Link	Details
9/29/2005: 8:00 AM - 5:00 PM 9/30/2005: 8:00 AM - 12:00 PM	CIPC	Lou Leffler	Denver	Register	Details

Meeting logistics are:

- Room rate: \$125 single/double occupancy (**ask for EEI/AGA Security Conference room block**)
- Room block: Nights of September 28–29, 2005
- Check-in: 3 p.m. Check-out: noon
- Denver International Airport (DEN): Approximately 40 minutes away. Airport shuttle (\$16–25 one way) or taxi (\$36 one way)
- Dress code: Business casual.

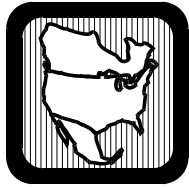
When making your hotel reservation, please be sure to mention the “EEI/AGA” Edison Electric Institute/American Gas Association conference to get the preferred rate and to ensure your reservation is credited to the EEI/AGA room block. The hotel may charge EEI/AGA a penalty if the total rooms blocked for this event are not picked up. Also, if you use a travel agency for your travel plans, please make sure the agency mentions EEI/AGA.

Please let me know if you have any questions regarding the registration process.

Sincerely,
Rocio Wong
Meeting Coordinator

A New Jersey Nonprofit Corporation

Phone 609-452-8060 ■ Fax 609-452-9550 ■ URL www.nerc.com



NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

Princeton Forrestal Village, 116-390 Village Boulevard, Princeton, New Jersey 08540-5731

Critical Infrastructure Protection Committee

Thursday, September 29, 2005 — 8 a.m. to 5 p.m.

Friday, September 30, 2005 — 8 a.m. to noon

Hyatt Regency Tech Center Hotel
7800 East Tufts Avenue
Denver, Colorado

(PLEASE BE PREPARED TO STAY FOR THE ENTIRE MEETING.)

Meeting Agenda

- | | |
|---|--------|
| 1. Administrative Matters | 45 min |
| a) Arrangements — Stan Johnson | |
| b) Announcement of quorum — Stan Johnson | |
| c) Procedures — Stan Johnson | |
| *d) NERC Antitrust Compliance Guidelines — Stan Johnson | |
| e) Parliamentary procedures — Stan Johnson | |
| f) Introduction of members, alternates, and associates — Stan Johnson | |
| g) Approval of agenda — Stuart Brindley | |
| *h) Approval of June 9, 2005 CIPC meeting minutes — Stuart Brindley | |
| *i) CIPC Nominating Committee report — Roger Lampila | |
| j) Election of CIPC officers for 2006–2007 — Stuart Brindley | |
|
 | |
| 2. Information Items | |
| a) CIPC Executive Committee report — Stuart Brindley | 15 min |
| 1. Board of Trustees highlights | |
| 2. ReliabilityFirst information and implications for CIPC | |
| 3. August 14, 2003 outage recommendation status | |
| 4. Electricity Sector Coordinating Council update | |
| a. NIPP comments | |
| b. Goal development | |
| b) NERC report — Lou Leffler | 5 min |

- c) ESISAC report and planned exercises update — Lou Leffler 20 min
- d) Electric Reliability Organization formation process — Gerry Cauley 1 hr
- *e) Public Messages and Media Guide — Wally Johnson 15 min
- *f) Working groups and task force 2005–2006 plans — chairs 30 min

3. Security Planning

- a) SGWG report 30 min
 - *1. **Approve** – Security Guideline (Revised): Physical Response for the Electricity Sector — Seiki Harada
 - *2. **Approve** – Security Guideline Process Flow — Seiki Harada
 - 3. **Approve** – SGWG name change — Seiki Harada
 - 4. **Approve** – SGWG membership and staffing — Seiki Harada
- b) Cyber Security Standard: CIP-002-009 — Larry Bugh 20 min
<http://www.nerc.com/~filez/standards/Cyber-Security-Permanent.html>
- c) Control system security — Tom Flowers 15 min
- d) Critical Spares Task Force report — Ron Niebo 20 min
 - *1. Accept June SED drill report
 - 2. **Approve** – SED drill recommendations
 - *3. **Approve** – SED procedure
 - 4. Update EEI STEP initiative — Ken Hall 20 min

4. Security Operating

- a) Indications, analysis, warnings program review — Larry Bugh 15 min
- b) Homeland Security Information Network (HSIN) — Carl Eng 60 min
- *c) **Approve** – Crisis Response Task Force Scope — Scott Heffentrager 15 min
- d) Outreach for 2005, early 2006, and workshops — Wally Johnson 15 min
- e) Laptop theft incident discussion — Ameren, Con Ed, B.C. Hydro, Hydro1 60 min
- f) Substation break-ins incident discussion 60 min

5. Agency Reports

- a) Department of Homeland Security 45 min
- b) Public Safety Emergency Preparedness Canada
- c) Public Safety Emergency Preparedness Canada
- d) Federal Energy Regulatory Commission

6. Closing

- a) Follow-up items and future actions — Stuart Brindley 15 min
- b) Future meetings — Stan Johnson 5 min

2005

- December 7–9, St. Petersburg, Florida (with NERC)

2006

- March 15–17, pending – likely Phoenix, Arizona (with NERC)
- June 21–22, Washington, D.C.
- September 13–15, Baltimore, Maryland (with NERC and maybe AGA/EEI)
- December 6–8, either Tampa, Florida, or Houston, Texas (with NERC)

CIPC Meeting Attendees

September 29–30, 2005 Meeting

(V = voting member; P = proxy)

REPR	VOTE	POSITION	NAME	ORGANIZATION
CEA	V	Member: Chair	Stuart Brindley	IMO
	V	Member	Dave Baumken	Hydro One
		Alternate	Seiki Harada	BC Hydro & Power Authority
NRECA	V	Member:	Robert Richhart	Hoosier Energy
	V	Member	Barry R. Lawson	NRECA
		Alternate:	Brad Hyland	Hoosier Energy
ECAR	V	Member: Phys	Michael Lynch	Detroit Edison
	V	Member: Cybr Vice Chair	Larry Bugh	ECAR
		Alternate: Phys	Scott Webber	Allegheny Power
		Alternate: Phys	Joe Douthitt	LGE Energy
	P	Alternate: Cybr	Jerry Freese (for Scott P. Moore)	AEP
ERCOT	V	Member: Phys	William Bojorquez	ERCOT
	V	Member: Cybr	Jim Brenton	ERCOT
	V	Member: Oper	Steve Myers	ERCOT
		Alternate: Cybr	Bill Muston	TXU
FRCC	V	Member: Phys	Frank Prieto	FPL
	V	Member: Cybr	Brian Malfant	FRCC
MAAC	V	Member: Phys	Robert H. Beahm	Constellation Energy
	P	Alternate: Cybr	Todd Thompson (for Thomas Bowe)	PJM Interconnection
	V	Member: Oper	Walter A. Johnson	Potomac Electric Power
		Alternate: Phys	R. Scott Heffentrager	PJM
MAIN	V	Member: Phys	Patrick Laird	Exelon
	V	Member: Cybr	Linda Nappier	Ameren Services
	V	Member: Oper	Eric Solberg	ATC
		Alternate: Phys	Tom Eells	WE Energies
MRO	V	Member: Phys	Scott McCoy	Xcel Energy
	V	Member: Cybr	Greg J. Fraser	Manitoba Hydro
	V	Member: Oper	David R. Kulisek	Omaha Public Power District
NPCC	V	Member: Phys	Bruce Metruck	New York Power Authority
	V	Member: Cybr	Charles E. Noble	ISO New England
	V	Member: Oper	Roger Lampila	New York ISO
		Alternate	Bonnie Bushell	New York ISO
SERC	V	Member: Phys	Robert D. Canada	Southern Company Servies
	V	Member: Cybr	Jay S. Cribb	Southern Company Services
	V	Member: Oper	Carl J. Eng	Dominion
		Alternate: Phys	Michael Hagee	Duke Energy
		Alternate: Cybr	Dave Norton	Entergy
		Alternate: Oper	Russell Robertson	TVA
SPP	V	Member: Cybr	Kevin Perry	SPP
	V	Member: Oper	Allen Klassen	Westar Energy

	P	Alternate: Cybr	Joe Doetzi (for Larry Dolci)	Great Plains Energy
WECC	V	Member: Phys	Robert L. Windus	Bonneville Power Administration
	V	Member: Cybr	James W. Sample	California ISO
		Alternate: Phys	Robert L. Sypult	Southern California Edison
		Alternate: Phys	Lyman H. Shaffer	Pacific G&E
NERC	-----	Secretary	Louis G. Leffler	NERC
		Staff	Stanley L. Johnson	NERC
		Staff	Ronald J. Niebo	NERC
		Staff	Angie Nicastro	NERC
-----	-----	Associate	David Batz	Alliant Energy
		Associate	Michael Assante	INL
		Associate	Regis Binder	FERC
		Associate	Seth Bromberger	PG&E
		Associate	Laurence Brown	EEl
		Associate	Mark Engels	Dominion
		Associate	John Gaertner	EPRI
		Associate	Jeff Gill	Bow Networks
		Associate	Ken Hall	EEl
		Associate	Lee Hanson	Alliant Energy
		Associate	Fred Hudson	ITC
		Associate	Rick Kaun	Matrikon Inc.
		Associate	Ken Keels	SERC
		Associate	Thomas Kropp	EPRI
		Associate	Brandon LaBonte	Department of Homeland Security
		Associate	Richard Levernier	Department of Energy
		Associate	George Miserendino	Triton Security Solutions
		Associate	Scott Mix	KEMA
		Associate	Kambiz Molkara	PEPCO Holdings Inc.
		Associate	Ron Newman	PPL Services
		Associate	Tim O'Neil	National Resources Canada
		Associate	Roy Otterson	Reedy Creek Energy Service
		Associate	Michael S. Paszynsky	Public Service Enterprise Group
		Associate	Karl S. Perman	Southern California Edison
		Associate	Mike Peters	Department of Defense
		Associate	Marc Razeghi	EEl
		Associate	Kristin Roberts	DHS/MITRE
		Associate	Julie Silberger	CSC
		Associate	Thomas Turke	Seminole Electric Cooperative
		Associate	James Whitley, Jr.	FirstEnergy Corp.
		Associate	Allan Wick	Xcel Energy
		Associate	T.C. Wilson	Alaska Power Association
		Associate	Dan Wood	Utility System Efficiencies
		Associate	Kara Yorke	PSEPC