



NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

Operating Reliability Subcommittee

February 9–10, 2005
Scottsdale, Arizona

Minutes

The Operating Reliability Subcommittee (ORS) met on February 9–10, 2005 in Scottsdale, Arizona. The meeting notice, agenda, and attendance list are affixed as **Exhibits A, B and C**, respectively. Individual statements and minority opinions are affixed as **Exhibits D and E**. (There were no comments.)

Administrative Items

Chairman Roger Harszy convened the meeting, and the secretary announced that a quorum was present, with Ed Devarona as proxy for Pedro Modia and Ed Ernst as proxy for Greg Stone. On February 10, 2005, Ray Morella was proxy for Tony Jankowski. Chairman Harszy summarized the Antitrust Compliance Guidelines.

Minutes

The subcommittee approved the minutes of the December 1–2, 2004, ORS meeting.

Future Meetings

The Chairman Harszy reviewed the future meetings.

Information Items

1. NERC Email List Servers — Larry Kezele reported that all NERC email list servers for committees, subcommittees, etc. are being reconfigured to create a roster only list server and a roster-plus list server. Most emails would be sent to the roster-plus list servers. Mr. Kezele will inform the subcommittee when these revised list servers become available.
2. Standard Version 0 — Don Benjamin stated that the NERC board approved the Version 0 standards to be effective April 1, 2005. Mr. Benjamin expressed his appreciation to the ORS and the Reliability Coordinator Working Group (RCWG) for their efforts in redrafting old Operating Policies 5, 6 and 9, which made the conversion to the Version 0 standards much easier.
3. NERC Data Confidentiality Agreement — Larry Kezele noted that the NERC data confidentiality agreement is not embedded in the Version 0 standards. He also noted that the transmission operator certification standards, as currently drafted, require signing the agreement. This is problematic for some transmission operators that have not separated their market operation from their reliability operation as required by the agreement. Steve Corbin noted that Alabama Electric

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Cooperative (AEC) is one such operating entity, but that AEC and Southern have developed an agreement that allows AEC to get the reliability data it requires directly from Southern.

Tony Jankowski suggested modifying the NERC data confidentiality agreement to reflect FERC Order 2004. Steve Corbin volunteered to work with Dave Cook, NERC general counsel, to address this concern.

4. NERC/NAESB TLR Subcommittee — Larry Kezele and Frank Koza provided an overview of TLR Subcommittee activities. Initially the subcommittee will focus its efforts on unbundling Attachment 1 (TLR Procedure) to Version 0 standard IRO-006-0 into reliability standards and business practices. Don Benjamin noted that at the completion of this process NAESB would file the TLR business practices with FERC. NAESB's timeline for making this FERC filing is the end of 2005. The TLR Subcommittee is also addressing PJM's request for non-firm TLR redispatch credit and the development of a business case for implementing IDC granularity Option 3.
5. Reliability Coordinator Plan Task Force — Larry Kezele noted that the Reliability Coordinator Plan Task Force posted the balancing authority, reliability coordinator, and regional reliability plan templates on January 6, 2005 for a 30-day comment period. Chairman Harszy noted that the templates are expected to provide more consistency and uniformity in the development of the various reliability plans.

Interchange Distribution Calculator (IDC)

Julie Pierce, Chairman of the IDC Working Group, provided an update of the following topics (**Presentation 1**):

1. IDC Granularity Options 1 and 3 — Implementation of IDC granularity Option 1 increases existing granularity for control areas to be in line with the OASIS impact calculators in the Eastern Interconnection, increases the accuracy of the IDC's NNL calculation by adding a generation merit order file to the IDC, and increases granularity by modeling transmission provider zones within the IDC. The IDC vendor completed the technical evaluation of Option 1, and evaluated the IDC change order implementation impacts on existing IDC hardware.

Ms. Pierce provided an overview of the transmission survey conducted by the working group to determine the level of granularity currently being used by transmission providers within the Eastern Interconnection. She also provided an overview of the transmission survey responses (**Presentation 2**).

Ms. Pierce reviewed the cost to implement IDC granularity Option 1, noting that this implementation requires more IDC calculations, POR and POD identification on E-Tags, and the identification of generator merit order files, or the installation of an ICCP node to gather real-time generator load data. Dave McNeill and Lanny Nickell stated that Entergy and SPP would probably use this functionality if it were available within the IDC.

Ed Ernst moved that due to the transmission survey results and the inability to implement Option 1 by June 2005 that moving forward with implementation of Option 1 be postponed until fall 2005 at which point a benefit/cost analysis of Option 3 will be available, and then a decision could be made to pursue Option 1 or Option 3. The subcommittee approved the motion. The subcommittee stated that the intent of this motion is that the IDC vendor not take any implementation actions related to IDC change order 163.

Ms. Pierce provided an overview of the actions taken to date by the NERC/NAESB TLR Subcommittee to address the development of an IDC granularity Option 3 business case.

2. IDC Change Order 38I Phase Shifter Implementation — IDC CO-38I was implemented on January 1, 2005. Garth Arnott asked how we begin using this modeling process for other phase angle regulators in the Eastern Interconnection. Frank Koza stated that there are some PARs that should not be modeled using this functionality (e.g., fixed tap PARs). Ms. Pierce stated that it could require about two months to implement the modeling of a PAR into the IDC.
3. IDC Change Order 114 Status Report — The integration of Duquesne into the PJM market occurred on January 1, 2005. From January 24, 2005 through January 28, 2005, a NERC technical validation team, comprised of members of the IDCWG and others, met at MISO's offices in Carmel, Indiana to conduct testing of MISO's market data.

Ms. Pierce noted that an analysis of the submittal of current-hour and next-hour market flow data has identified a discrepancy between what is predicted for next-hour and what subsequently occurs in the next-hour with the current-hour market flow submittal. PJM and MISO have investigated how to minimize this discrepancy between the two values. (See agenda item Accuracy of MISO and PJM Next-Hour Market Flow Calculation below.)

4. TLR 3B Curtailments — Ms. Pierce noted that IDC Change Order 178 was developed to implement the recommendation approved by the subcommittee at its December 2004 meeting. Dan Boezio reminded the subcommittee that implementation of this change order also requires a modification of Attachment 1 of Version 0 reliability standard IRO-006-0. Chairman Harszy stated that he would form a task group to address implementing a standards change.
5. IDC Change Order Update — Ms. Pierce provided an implementation schedule for several IDC change orders.
6. NERC Reliability Tools — Ms. Pierce noted that there are several NERC reliability tools that do not have an "owning" subcommittee or working group (e.g., CRC site, TDF and GSF viewer, and system flows). As a result, it is often times difficult to get changes to these tools, and support services are ill defined. Chairman Harszy requested Jack Kerr to identify any NERC reliability tool availability issues, and to report his findings at the subcommittee's next meeting.
7. SDX Status Report — The SDX vendor is providing training sessions by web cast, and training CDs will be developed and made available to SDX users.

Dynamic Schedules Task Force Report

The Interchange Subcommittee (IS) joined the ORS to discuss this agenda topic. Doug Hils, Chairman of the Dynamic Schedule Task Force, reviewed the two motions approved by the IS at its last meeting. At its recent meeting, the IS approved a letter to the industry regarding the implementation of IS motion one, which is:

Motion One — For a dynamic schedule, the entity creating the E-Tag for the schedule must indicate that the E-Tag is of the type "Dynamic" (<Transaction Type>Dynamic</Transaction Type>). The type "Dynamic" on the E-Tag must not be used when a schedule is not a dynamic schedule.

Mr. Hils noted that IS motion 2 (Part A) is addressed by implementation of IDC change order 179 (Firm Dynamic Transaction Handling in TLR Levels 1–4). Part A of Motion 2 is:

Motion Two (Part A) — Short Term — If the E-Tag is identified as the type "Dynamic," and the transmission service is considered firm according to the constrained path method, then it will not be held by the IDC during TLR level 4 or lower.

The IS drafted a revision to Version 0 standard IRO-006-0, Requirement 1.6.6 of Attachment 1, which could be processed as an urgent action SAR. He stated that the ORS should decide if this is a standards change or a standards interpretation.

Lanny Nickell expressed concern related to the potential reliability impacts of changing dynamic schedules, especially those of significant magnitude. He suggested that the IDCWG consider the reliability impacts, and consider changing the IDC to provide as much information as possible to the reliability coordinator regarding changing dynamic schedules. Julie Pierce noted that some dynamic schedules are tagged after-the-fact. Chairman Harszy requested the addition of alarming, reliability coordinator notification, and viewing capability be added to IDC CO-179.

Lanny Nickell moved to accept the changes proposed to IRO-006-0, Attachment 1, as approved by the IS, and to request the Dynamic Schedules Task Force to develop an urgent action standards authorization request (SAR) to modify Attachment 1 to standard IRO-006-0 and to submit the SAR to the standards process manager. (Secretary's note: The revision to Requirement 1.6.6 of Attachment 1 is shown in the text box.)

Julie Pierce stated that a revised IDC CO-179 could probably be implemented by June 1, 2005. The Dynamic Schedules Task Force was tasked with drafting a SAR. Garth Arnott suggested pursuing an interpretation of standard IRO-006-0, and Don Benjamin noted that there is a formal standards interpretation process that should be followed. The ORS approved the motion.

The task force will draft an urgent action SAR, and submit it to the IS and ORS for approval. The ORS requested that the IDCWG not begin implementation of IDC CO-179 until directed to do so by the ORS.

Requirement 1.6.6:

Reallocation. The Reliability Coordinator shall consider for Reallocation any Transactions of higher priority that meet the approved tag submission deadline during a TLR Level 3A. The Reliability Coordinator shall consider for Reallocation any Transaction using Firm Transmission Service that has met the approved tag submission deadline during a TLR Level 5A. Note Reallocations for Dynamic Schedules are as follows: If an Interchange Transaction is identified as a Dynamic Schedule and the transmission service is considered firm according to the constrained path method, then it will not be held by the IDC during TLR level 4 or lower. Adjustments to Dynamic Schedules in accordance with INT-004-0 Requirement 5 will not be held under TLR level 4 or lower.

Telecommunications Working Group Status Report

Randy Turner reported that the working group met with MCI regarding the installation of the redundant NERCnet. NERC signed the MCI contract on February 1, 2005, and in accordance with the contract, MCI is obligated to install the required circuits and equipment within 55 days. The redundant system should be fully operational by April 1, 2005.

NERC GSF/TDF Viewer Survey

Larry Kezele summarized the responses received from the NERC GSF/TDF viewer survey. Julie Pierce noted that two vendors have supplied bids to provide NERC with a GSF/TDF viewer. *Tony Jankowski moved that given the responses received in the GSF/TDF viewer survey that the IDCWG pursue implementation of a replacement viewer at no cost to users.*

Chairman Harszy requested the IDCWG to investigate the costs and implementation timeframes for a GSF/TDF viewer replacement project. Pat Shanahan suggested that the GSF and TDF data files could be better defined, and that the viewer functionality needs further clarification. Garth Arnott stated that

matrix archiving capability may drive project cost, and that the specifications for an on-line archive should be clearly stated. The subcommittee approved the motion.

Real-time Tools Best Practices Task Force

Jack Kerr reviewed the task force timeline and summarized the difficulties the task force is experiencing in preparing the best practices survey. Chairman Harszy noted that the task force was behind schedule in meeting the NERC and U.S./Canada Power System Outage Task Force recommendations, and encouraged the task force to move forward as quickly as possible.

MISO Market Readiness Audit

Dave Zwergel summarized prior Operating Committee actions and stated that MISO was the subject of a NERC reliability coordinator readiness audit in the spring of 2004. Julie Pierce summarized the results of the NERC technical verification that occurred from January 24, 2005 through January 28, 2005 (**Presentation 3**). The verification team's report was included in the agenda. Ms. Pierce noted that the scope of the verification included verification of MISO's readiness to implement the RTO market inadvertent accounting waiver, the enhanced scheduling agent waiver, the energy flow information waiver, and the enhanced congestion management waiver. The NERC technical verification team concluded that all waivers were found to have processes, procedures, and tools in place to meet the requirements identified.

Dave Zwergel stated that MISO would host a web cast to provide training and to answer questions related to implementation of the scheduling agent waiver. Mr. Zwergel also noted that in response to the NERC readiness audits MISO implemented a formal training program and developed a MISO footprint system restoration plan. Ms. Pierce provided an overview of the MISO operator training program, and noted that MISO is an accredited NERC continuing education provider (**Presentation 4**).

Tony Jankowski moved that the ORS accept the results of the technical verification of MISO readiness to implement the NERC operating policy waivers and continue with market startup. The subcommittee approved the motion. Mr. Zwergel asked the subcommittee to identify any other open issues that need resolution prior to MISO beginning its market operation as scheduled on April 1, 2005. There were none identified.

Accuracy of MISO and PJM Next-Hour Market Flow Calculation

Frank Koza and Andy Rodriquez, who joined the ORS via speakerphone, reported on PJM's efforts to improve the accuracy of its next-hour market flow calculation (**Presentation 5**). Mr. Koza noted that TLR results on PJM coordinated flowgates have been questionable since the integration of AEP and DPL into the PJM market on October 1, 2004. Mr. Koza's presentation included several examples of PJM impact on selected flowgates based on distribution factors calculated using the PSSE MUST program and actual generator outputs on January 5, 2005. The results of this analysis indicate that:

1. Reliability coordinators may have to request much more relief than is actually necessary to effect curtailments, and
2. Reliability coordinators may believe flows represent available relief, when in fact the flows are reported erroneously and no relief is available.

PJM considered several potential solutions, including changing the curtailment threshold, netting of flows, and partial netting of flows. Mr. Koza stated that PJM is proposing that RTOs use load shift factors similar to those used in the firm usage calculation. Mr. Koza reviewed the results obtained in the previous examples if the proposed solution were implemented. In summary, he noted that this change would significantly improve the IDC's accuracy in calculating and estimating flowgate relief responsibilities.

Mr. Koza noted that the PJM proposal is a fundamental market flow calculation change that impacts both current-hour and next-hour market flow calculations. PJM is also investigating other data feeds into the next-hour market flow calculation to further improve the calculation. He indicated that PJM intends to implement the proposed solution on April 1, 2005 with the MISO market startup.

Lanny Nickell asked if implementing this proposal would require changing the MISO/PJM joint operating agreement and the congestion management white paper. Furthermore, he noted that this could create a reliability problem, and suggested that NERC should be more involved in developing a resolution to the problem. Kim Warren suggested that changes to PJM's market flow calculation should undergo a due diligence process, and recommended that the IDCWG be tasked to review the PJM proposal and bring a recommendation back to the subcommittee.

Lanny Nickell moved that the ORS endorse the implementation of the solution proposed by PJM and MISO as soon as reasonably possible, but that the ORS ask the NERC/NAESB TLR Subcommittee to consider the issue of identifying excessive market flows on coordinated flowgates and propose a solution that addresses the reliability and equity concerns. Ms. Pierce noted that the IDCWG is well represented on the TLR Subcommittee. The ORS approved the motion.

PJM Calculated TLR Relief Credit

Frank Koza stated that IDC change order 154 (Firm Redispatch Credit) is being implemented, and following implementation, MISO and PJM will be similarly situated with other control areas that currently have the capability of entering a redispatch level for firm during TLR Level 5 events. PJM is requesting ORS approval of a similar request for non-firm redispatch credit (**Presentation 6**). Mr. Koza noted that the NERC/NAESB TLR Subcommittee is also considering PJM's request for firm and non-firm redispatch credit, and that PJM is preparing a procedure to present to the TLR Subcommittee.

Don Benjamin summarized the Operating Committee's discussion of this topic at its November 2004 meeting.

Dave Zwergel stated that there would be fewer TLRs issued if there is a non-firm redispatch credit process and procedure, but is concerned about how the relief would be calculated and entered.

Frank Koza moved that the ORS allow PJM to implement non-firm redispatch credits and to switch on the automation that was turned off at the request of the ORS in May 2004. Dan Boezio stated that this proposal has an equity impact. The subcommittee did not approve the motion.

Frank Koza moved that the ORS approve implementation of IDC change order 157 (non-firm redispatch credit) to facilitate non-firm credits in accordance with NERC/NAESB TLR Subcommittee business practices to apply such credits. Garth Arnott stated that this proposal was an equity issue that should not be addressed by the ORS, and that the ORS should so inform the Operating Committee. Don Benjamin suggested developing a resolution to address the subcommittee's concerns. By unanimous consent, the subcommittee approved Kim Warren's motion to table the motion until tomorrow morning.

American Transmission Company Request for Access to SDX Files

Pat Shanahan, American Transmission Company (ATC), stated that historically ATC had access to SDX files via MAIN. MAIN no longer posts SDX files, therefore, ATC requests access to the NERC SDX website. Mr. Shanahan noted that ATC has signed the NERC data confidentiality agreement. *Tony Jankowski moved to grant ATC access to NERC SDX files.* The subcommittee approved the motion.

Long-Term AFC/ATC Task Force

Lanny Nickell, a member of the Long-Term AFC/ATC Task Force (LTATF) provided an overview of task force activities. The task force plans to present its final report to the Planning and Operating Committees at their March 2005 meetings. The final report documents ATC coordination on third-party

flowgates. The LTATF is also developing two SARs. The first SAR addresses total transfer capability, available transfer capability, and available flowgate capability calculation methodology. The second SAR addresses capacity benefit margin and transmission reliability margin calculation methodology.

Status Report on the Alliant West TLR Test Period

Dave Zwergel reported that there have been no additional TLRs initiated on the Alliant West pilot program flowgates. The pilot program will end on March 31, 2005, and Alliant West will not be requesting further extension of the pilot.

Status Report on the Entergy TLR Test Period

Dave McNeill noted that Entergy has not yet implemented its pilot program; therefore, Entergy will request approval of the Operating Committee for a three-month extension.

Distribution Factor Working Group Report

Pat Shanahan, Chairman of the Distribution Factor Working Group (DFWG), provided an overview of working group activities (**Presentation 7**). *Dan Boezio moved to approve the working group's recommendation to conditionally approve the MISO marginal zones for incorporation of the MISO Day-2 market operation subject to:*

- 1. Further investigation of IDC changes to incorporate dual zone use for MISO grand-fathered agreements, and*
- 2. The expectation that the marginal zones will be reevaluated periodically.*

The subcommittee approved the motion.

Adjourn for the Day

The Operating Reliability Subcommittee adjourned for the day at 5:03 p.m.

Reconvene

The Operating Reliability Subcommittee reconvened at 8:07 a.m.

PJM Calculated TLR Relief Credit (cont'd)

Garth Arnott moved the following resolution regarding redispatch credits:

WHEREAS the Operating Reliability Subcommittee has discussed the proposal by MISO and PJM that would allow those organizations to receive credit for their proactive and reactive redispatch when in a TLR 3A or 3B by implementation of IDC CO-157 (Non-firm redispatch credit), and

WHEREAS the Operating Reliability Subcommittee is not aware of any adverse reliability impacts that would result from the concept of allowing credit for action taken prior to and during implementation of TLR, and

WHEREAS the Operating Reliability Subcommittee recognizes that this proposal includes business practices, and

WHEREAS the NERC/NAESB TLR Subcommittee has been created to coordinate the development of reliability standards and complementary business practices associated with the TLR procedure,

THEREFORE, the Operating Reliability Subcommittee requests that the NERC/NAESB TLR Subcommittee consider the implementation of the non-firm redispatch credit proposal from a

business practice perspective and bring its recommendations to the Operating Reliability Subcommittee for further consideration.

The subcommittee did not approve the resolution. The subcommittee then returned to the tabled motion from the previous day's meeting. Following a brief discussion, the subcommittee did not approve the motion.

Reliability Plans

1. PJM — Frank Koza reported that the integration of Dominion into the PJM market is now expected to occur on May 1, 2005.
2. MISO — Chairman Harszy reported that the MISO market startup is scheduled for April 1, 2005.
3. VACAR-South — Ed Ernst reported that VACAR-South would begin providing reliability coordination services to the Carolina Power and Light control areas effective March 1, 2005.
4. NPCC Regional Reliability Plan — New Brunswick System Operator has rescheduled its startup date to October 1, 2005; therefore, NPCC withdrew its request for approval of a revised regional reliability plan.

Garth Arnott asked if it was the intent of reliability coordinators to file revised reliability plans in compliance with the ORS motion approved at its September 2004 meeting. Larry Kezele noted that the reliability coordinator reliability plan template would be discussed at the Operating Committee's March 2005 meeting. Chairman Harszy advised the reliability coordinators to move forward with the intent of the ORS motion.

August 14, 2003 Blackout Investigation Recommendations and Status Report

Chairman Harszy provided an overview of the blackout investigation recommendations assigned to the ORS. He noted the substantial progress made by the ORS in addressing the recommendations, yet the Operating Committee continues to request the subcommittee to consider additional implementation issues. Chairman Harszy appointed Kim Warren and Jim Castle to oversee developing and implementing plans to address each of the recommendations assigned to the subcommittee.

The subcommittee specifically considered blackout investigation recommendation 29 (Evaluate and disseminate lessons learned during system restoration). Ralph Williams, IESO, provided an overview of IESO's bulk electric system restoration efforts, focusing of the human factor aspects (**Presentation 8**). Mr. Williams reported that as a result of the lessons learned during the system restoration, IESO installed new communications facilities to handle the volume of communications traffic with outside entities (e.g., nuclear plants, and field personnel).

PJM Calculated TLR Relief Credit (cont'd)

Lanny Nickell moved the following resolution regarding redispatch credits:

WHEREAS the Operating Reliability Subcommittee has discussed the proposal by MISO and PJM that would allow organizations to receive credit for their proactive and reactive redispatch when in a TLR 3A or 3B by implementation of IDC CO-157, and

WHEREAS the Operating Reliability Subcommittee believes that the concept of allowing credit for action taken prior to and during the implementation of TLR has merit with the benefits potentially including reduction in the frequency and magnitude of TLR events, quicker relief, and more accurate relief. However, if this concept is not appropriately implemented, it may also have unintended consequences that require further evaluation, including but not limited to:

- *Possible increase in number and magnitude of TLR 5 curtailments,*
- *Possible confusion on appropriate magnitude of TLR 3A and 3B curtailments required,*
- *Coordination of potential additional actions required of reliability coordinators and interactions between reliability coordinators,*
- *Ramping considerations on those parties receiving additional curtailments,*

and

WHEREAS the Operating Reliability Subcommittee recognizes that this proposal includes business practices, and

WHEREAS the NERC/NAESB TLR Subcommittee has been created to coordinate the development of reliability standards and complementary business practices associated with the TLR procedure,

THEREFORE, the Operating Reliability Subcommittee requests that the NERC/NAESB TLR Subcommittee consider the implementation of the non-firm redispatch credit proposal from a business practice perspective and bring its recommendations to the Operating Reliability Subcommittee for further consideration.

The subcommittee approved the resolution.

Policy 4 (SDX Language Addition)

Chairman Harszy stated that with the absence of Greg Stone this agenda item would be carried over to the subcommittee's next meeting.

Operating Manual Reference Documents

Don Benjamin noted that the subcommittee should review each of the reference documents under its purview to ensure conformity with the functional model.

Adjourn

The meeting was adjourned at 10:56 a.m.

Larry Kezele

Larry Kezele
Secretary



Exhibit A

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

Reliability Coordinator Working Group Operating Reliability Subcommittee

Tuesday, February 8, 2005 — 8 a.m.–5 p.m. (RCWG)

Wednesday, February 9, 2005 — 8 a.m.–5 p.m. (ORS)

Thursday, February 10, 2005 — 8 a.m.–noon (ORS)

Meeting Logistics and Registration Form

Hotel	Hilton Scottsdale Resort & Villas 6333 North Scottsdale Road Scottsdale, Arizona 85250-5428
Phone and fax	Phone: 480-948-7750 ■ Fax: 480-948-2232
Room rate	\$179 single occupancy
Room block	Nights of February 7–9, 2005
Reservation cut-off date	January 17, 2005 (NOTE: After this date, the hotel will release this block of rooms and only accept reservations on a space-available basis.)
Check-in and check-out times	Check-in: 3 p.m. Check-out: noon
Transportation	The hotel is located about 20 minutes from the Sky Harbor International Airport. • Shuttle service is available at baggage claim (approximately \$15) • Taxi: Approximately \$25–30
Hotel reservation instructions	When making your hotel reservation, please be sure to mention the “NERC/North American Electric Reliability Council” meeting to get the preferred rate and to ensure your reservation is credited to the NERC room block. NERC may be charged 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 NERC.
Attire	Business casual.

Please type or print.

Name:	
Title:	
Company:	
Telephone:	
Email:	
Attending: <input type="checkbox"/>	Not Attending: <input type="checkbox"/>

Exhibit A

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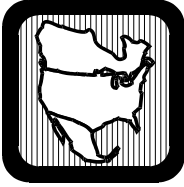


Exhibit B

NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

Operating Reliability Subcommittee

February 9, 2005 — 8 a.m.–5 p.m.

February 10, 2005 — 8 a.m.–noon

Hilton Scottsdale Resort and Villas
6333 North Scottsdale Road
Scottsdale, Arizona 85250
Phone: 480-948-7750 ♦ Fax: 480-948-2232

Agenda

1. Administrative

- a. Arrangements
- b. Determination of Quorum
- c. Membership and Guests
- d. Parliamentary Procedures
- e. Antitrust Compliance Guidelines
- f. Review and Approval of Meeting Minutes
 - i) December 1–2, 2004 Operating Reliability Subcommittee Meeting
- g. Future Meetings

2. Information Items

- a. NERC Email List Servers
- b. Standards Version 0
- c. NERC/NAESB TLR Subcommittee
- d. Reliability Coordinator Plan Task Force

3. Interchange Distribution Calculator

- a. Action Plan to Implement IDCGTF Option 1 and Option 3
- b. NERC IT Support Reliability Tools
- c. IDC Change Order 178 (TLR Level 3B Second Pass)
- d. IDC Digital Certificates
- e. SDX Status Report
- f. IDC Change Orders

4. August 14, 2003 Blackout Investigation Recommendations

- a. Overview of Operating Committee actions related to the NERC and/or U.S./Canada Task Force blackout recommendations.
- b. NERC Recommendation 9C – Evaluate and Improve Tools and Procedures for the timely exchange of outage information among control areas and reliability coordinators.

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- c. Recommendation 20 – Establish clear definitions for normal, alert, and emergency operational system conditions. Clarify roles, responsibilities, and authorities of reliability coordinators and control areas under each condition.
 - d. Recommendation 26 – Tighten communications protocols, especially for communications during alerts and emergencies. Upgrade communication system hardware where appropriate.
 - e. Recommendation 29 – Evaluate and disseminate lessons learned during system restoration
 - f. Recommendation 30 – Clarify criteria for identification of operationally critical facilities, and improve dissemination of updated information on unplanned outages.
- 5. NERC GSF/TDF Viewer Survey**
 - 6. Real-time Tools Best Practices Task Force**
 - 7. MISO Market Readiness Audit**
 - 8. Accuracy of MISO and PJM Next-Hour Market Flow Calculation**
 - 9. American Transmission Company Request for Access to SDX Files**
 - 10. Dynamic Schedules Task Force Report**
 - 11. PJM Calculated TLR Relief Credit**
 - 12. Long-Term AFC/ATC Task Force**
 - a. LTATF Update
 - b. Status Report on the Alliant West TLR Test Period
 - c. Status Report on the Entergy TLR Test Period
 - 13. Distribution Factor Working Group Report**
 - 14. Reliability Plans**
 - a. Information Related to Implementation of Existing Reliability Plans
 - i) PJM Reliability Plan update
 - ii) MISO Reliability Plan update
 - iii) VACAR-S Reliability Plan update
 - b. New Reliability Plans for Approval
 - c. Regional Changes
 - i) NPCC Regional Reliability Plan

Operating Policies and Organization Standards

- 15. Policy 4 (SDX Language)**
- 16. Reference Documents**
 - a. NERC Operating Manual Reference Documents
 - b. Geomagnetic Disturbance Reference Document
 - c. Flowgate Administration Reference Document
 - d. Parallel Flow Calculation Procedure Reference Document
 - e. Reliability Coordinator Reference Document
 - f. Electric System Restoration Reference Document
 - g. Backup Control Center Reference Document
 - h. Demand-Side Management — The System Operator’s Perspective; A Reference Document

**Operating Reliability Subcommittee Meeting Attendance
February 9–10, 2005
Scottsdale, AZ**

Name	
Chairman (MISO)	Roger Harszy
Vice Chairman (IESO)	Kim Warren
AEP	Dan Boezio
NCEMC	Garth Arnott
ERCOT	Steve Myers
FPL	Ed DeVarona (for Pedro Modia)
PJM	Frank Koza
NYISO	Jim Castle
Duke Energy	Ed Ernst (for Greg Stone)
SCGEM	Cliff Shepard
SPP	Lanny Nickell
We Energies	Tony Jankowski
PNSC	Jack Bernhardsen

ORS Meeting
February 9–10, 2005
Scottsdale, AZ

Guests

Name	Organization
Steve Corbin	Southern
Mark Fidrych	OC Chairman
Julian Gagnon	HQ/TransÉnergie
Stuart Goza	TVA
Jim Hartwell	NPCC
Jack Kerr	Dominion
David McNeill	Entergy
Ray Morella	FirstEnergy
Julie Pierce	IDCWG Chairman
Patrick Shanahan	ATC
Greg Tillitson	CAISO
Dave Zwergel	MISO
Randy Turner	SPP
Ralph Williams	IESO
Larry Kezele	NERC
Don Benjamin	NERC

Exhibit D

**Individual Statements
Operating Reliability Subcommittee Meeting
February 9–10, 2005**

None

Exhibit E

**Minority Opinions
Operating Reliability Subcommittee Meeting
February 9–10, 2005**

No minority opinions were offered for the record.