



NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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

Operate Within Interconnection Operating Limits Standard Drafting Team Meeting

Tuesday, January 27, 2004, 8 a.m.–3 p.m. (possibly till 5:00 p.m.)

Wednesday, January 28, 2004, 8 a.m.–Noon

Hyatt Regency New Orleans

Podyras at Loyola Avenue

New Orleans, LA

Telephone: (504) 561-1234 / (800) 233-1234

Agenda

1. Administrative

- a. Membership and Guests — Chair
- b. Introductions — Chair
- c. Organization, Roster, and Survey Contacts List — Secretary
- d. Arrangements — Secretary
- e. Parliamentary and Anti-Trust Procedures
 - i. Parliamentary Procedures — Chair
 - ii. Anti-Trust Compliance Guidelines — Chair

2. Operate Within Interconnection Reliability Operating Limits Standard Draft, Version 2

- a. Respond to Standard Draft Version 2 Ballot Comments
- b. Revise Standard Draft Version 2 — Based on Post-Ballot Comments
- c. Revise Implementation Plan (Draft Standard — Operating Manual Policy Cross Reference)
- d. Review latest information on field-testing

3. Future Meetings

- a. Future Meetings and Conference Calls, to be Determined During the Meeting

1. Administrative

Monitor and Assess Short-term Transmission Reliability — Operate Within Transmission System Limits Standard Drafting Team Meeting

Tuesday, January 27, 2004, 8 a.m.–3 p.m. (possibly till 5:00 p.m.)
Wednesday, January 28, 2004, 8 a.m.–Noon

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Item 1.a Membership and Guests

On behalf of the “Operate Within Interconnection Reliability Operating Limits” Standard Drafting Team, Chairman Ed Riley welcomes the “Operate Within Limits” SDT members and all guests to New Orleans, Louisiana and to this meeting.

Item 1.b Introductions

The Chair will ask members and guests to introduce themselves.

Item 1.c Roster, Contacts List and Attendance Sheet

The Secretary will review the current Roster and Contacts List. Each member is asked to check the data for accuracy. Each meeting attendee is asked to sign and complete the attendance sheet.

Attachment

Roster with Contact Information

Item 1.d Arrangements

Standard Drafting Team Secretary Tom Vandervort will review the meeting arrangements. The Operate Within Limits SDT meetings begin on Tuesday, January 27, 2004 at 8 a.m. and will adjourn by 3 p.m. The SDT will reconvene Wednesday, January 28, 2004 at 8 a.m. and will adjourn by Noon. Lunch will be served on Tuesday.

Item 1.e Parliamentary and Anti-Trust Procedures

- i. Parliamentary Procedures:

“Operate Within Limits” Standard Drafting Team Meeting
January 27–28, 2004

A summary of Parliamentary Procedures is attached for reference. The Secretary will answer questions regarding these procedures.

ii. Anti-Trust Compliance Guidelines:

On June 14, 2002 the NERC Board of Trustees adopted antitrust compliance guidelines for NERC. In adopting the guidelines, the Board passed the following resolution:

RESOLVED, that the Board of Trustees (1) adopts the draft Antitrust Compliance Guidelines attached hereto as Exhibit A and (2) instructs that these Antitrust Compliance Guidelines be included in the agenda package for each meeting of every NERC committee, subcommittee, task force, working group, and other NERC-sponsored activity.

The resolution also applies to workshops, training sessions, and any other NERC-sponsored events. A copy of the NERC Anti-Trust Compliance Guidelines will be included in the agenda package for each meeting of each group or event.

Attachment

Parliamentary Procedures
NERC Anti-Trust Guidelines

2. Operate Within Interconnection Reliability Operating Limits Standard Draft, Version 2

- a. Respond to Standard Draft Version 2 — Ballot Comments
- b. Revise Standard Draft Version 2 — Based on Post-Ballot Comments
- c. Revise Implementation Plan (Draft Standard — Operating Manual Policy Cross Reference)
- d. Review latest information on field testing

Item 2.a Respond to Standard Draft Version 2 — Ballot Comments

Discussion and Action:

The Standard Drafting Team (SDT) will review and respond to all “Operate Within Interconnection Reliability Operating Limits” Draft Standard, Version 2, ballot comments. The comments will be compiled and organized by NERC staff or by Maureen Long. All OWL SDT members are to read all of the ballot comments prior to the meeting. The SDT will respond to all comments in accordance with the NERC Reliability Standards Process Manual.

Ms. Long will forward the comments to the OWL SDT in separate transmittals. The OWL SDT will:

- Discuss summary considerations for groups of comments
- Develop a schedule for drafting responses to individual comments
- Assign sections to team members

Item 2.b Revise Standard Draft Version 2 — Based on Post-Ballot Comments

The Standard Draft Version 2, ballot comments that are evaluated to be beneficial or appropriate to enhance the standard will be incorporated. Those comments that are evaluated to be insignificant or do not enhance the standard will not be incorporated.

Issues and concerns that cannot be addressed and resolved by the SDT will be added to the list of Parking Lot Issues or assigned to SDT members as action items.

If an additional posting is needed, a Comment form will be developed.

Item 2.c Revise Implementation Plan (Draft Standard — Operating Manual Policy Cross Reference)

The OWL SDT will review and revise the Implementation Plan from the Operate Within IROLs SAR (the draft standard — operating manual policies cross reference) for accuracy and correct correlation to the current draft standard.

Attachment

- a) Implementation Plan from Operate Within IROLs SAR

Item 2.d Review latest information on field-testing

Field testing of this standard when approved may be an issue.

“Operate Within Limits” Standard Drafting Team Meeting
January 27–28, 2004

The OWL SDT will evaluate the draft standard to determine the parameters that need field-testing.

Attachment

a) OWL SDT Parking Lot Issues

3. Future Meetings

- a. Future Meetings and Conference Calls, to be Determined During the Meeting

Discussion and Action:

The Standard Drafting Team will determine the next meeting or conference call to continue drafting the “Operate Within Limits” Standard.

“Operate Within Limits” SDT Roster

Edward R. (Ed) Riley (Chairman) Director of Regional Coordination	California ISO 151 Blue Ravine Rd. Folsom CA 95630	916-351-4463 (office) 916-802-9558 (cell) eriley@caiso.com
Paul Cafone	Public Service Electric & Gas Co. 80 Park Plaza Newark NJ 07101	973- 430-5001 (office) 201- 315-0174 (cell) paul.cafone@pseg.com
Albert DiCaprio (Requestor) Corporate Strategist	PJM Interconnection, L.L.C. 955 Jefferson Avenue Valley Forge Corporate Center Norristown, PA 19403-2497	610-666-8854 (office) dicapram@pjm.com
Tony Jankowski Mgr., Electric System Operations	WE-Energies W237 N1500 Busse Rd Waukesha WI 53188-1124	262-544-7117 (office) 414-322-6982 (cell) tony.jankowski@weenergies.com
Wendy Ladd	Duke Energy/VACAR South PO Box 1244 Charlotte, NC 28201-1244	704-382-6940 (office) wtladd@duke-energy.com
Mauren Long	NERC 116-390 Village Boulevard Princeton, NJ 08540-5731	305-891-5497 maureenlong@earthlink.net
Ellis Rankin Mgr. Grid Operations	Oncor 2233B Mt. Creek Parkway Dallas, TX 75211-6716	214-743-6825 (office) 214-549-6179 (cell) erankin@oncorgroup.com
Gerald Rheault	Manitoba Hydro P.O. Box 815 820 Taylor Avenue Winnipeg Manitoba R3C 2P4	204-487-5423 (office) gnrheault@hydro.mb.ca
James P. Murphy Electrical Engineer	BPA TOT-DITT-2 5411 NE Highway 99 Vancouver, WA 98663	360- 418-2413 (office) jpmurphy@bpa.gov
Thomas J. Vandervort Manager – Resources	NERC 116-390 Village Boulevard Princeton, NJ 08540-5731	609-452-8060 (office) 609-452-9550 (fax) tom.vandervort@nerc.net
Charles V. Waits Vice President - Operations & Transmission Strategy	Michigan Electric Transmission Company, LLC 540 Avis Drive, Suite H Ann Arbor, Michigan 48108	734-929-1227 (office) cwaits@metcllc.com
List Server for Standard DT		opwinlimsdt@nerc.com

Parliamentary Procedures

Based on Robert's Rules of Order, Newly Revised, 10th Edition, plus "Organization and Procedures Manual for the NERC Standing Committees"

Motions

Unless noted otherwise, all procedures require a "second" to enable discussion.

When you want to...	Procedure	Debatable	Comments
Raise an issue for discussion	Move	Yes	The main action that begins a debate.
Revise a Motion currently under discussion	Amend	Yes	Takes precedence over discussion of main motion. Motions to amend an amendment are allowed, but not any further. The amendment must be germane to the main motion, and can not reverse the intent of the main motion.
Reconsider a Motion already approved	Reconsider	Yes	Allowed only by member who voted on the prevailing side of the original motion.
End debate	Call for the Question or End Debate	No	If the Chair senses that the committee is ready to vote, he may say "if there are no objections, we will now vote on the Motion." Otherwise, this motion is not debatable and subject to 2/3 majority approval.
Record each member's vote on a Motion	Request a Roll Call Vote	No	Takes precedence over main motion. No debate allowed, but the members must approve by 2/3 majority.
Postpone discussion until later in the meeting	Lay on the Table	Yes	Takes precedence over main motion. Used only to postpone discussion until later in the meeting.
Postpone discussion until a future date	Postpone until	Yes	Takes precedence over main motion. Debatable only regarding the date (and time) at which to bring the Motion back for further discussion.
Remove the motion for any further consideration	Postpone indefinitely	Yes	Takes precedence over main motion. Debate can extend to the discussion of the main motion. If approved, it effectively "kills" the motion. Useful for disposing of a badly chosen motion that can not be adopted or rejected without undesirable consequences.
Request a review of procedure	Point of order	No	Second not required. The Chair or secretary shall review the parliamentary procedure used during the discussion of the Motion.

Notes on Motions

Seconds. A Motion must have a second to ensure that at least two members wish to discuss the issue. The "second" is not recorded in the minutes. Neither are motions that do not receive a second.

Announcement by the Chair. The Chair should announce the Motion before debate begins. This ensures that the wording is understood by the membership. Once the Motion is announced and seconded, the Committee "owns" the motion, and must deal with it according to parliamentary procedure.

Voting

Voting Method	When Used	How Recorded in Minutes
Unanimous Consent	When the Chair senses that the Committee is substantially in agreement, and the Motion needed little or no debate. No actual vote is taken.	The minutes show "by unanimous consent."
Vote by Voice	The standard practice.	The minutes show Approved or Not Approved (or Failed).
Vote by Show of Hands (tally)	To record the number of votes on each side when an issue has engendered substantial debate or appears to be divisive. Also used when a Voice Vote is inconclusive. (The Chair should ask for a Vote by Show of Hands when requested by a member).	The minutes show both vote totals, and then Approved or Not Approved (or Failed).
Vote by Roll Call	To record each member's vote. Each member is called upon by the Secretary,, and the member indicates either "Yes," "No," or "Present" if abstaining.	The minutes will include the list of members, how each voted or abstained, and the vote totals. Those members for which a "Yes," "No," or "Present" is not shown are considered absent for the vote.

Notes on Voting

(Recommendations from DMB, not necessarily Mr. Robert)

Abstentions. When a member abstains, he is not voting on the Motion, and his abstention is not counted in determining the results of the vote. The Chair should not ask for a tally of those who abstained.

Determining the results. The results of the vote (other than Unanimous Consent) are determined by dividing the votes in favor by the total votes cast. Abstentions are not counted in the vote and shall not be assumed to be on either side.

"Unanimous Approval." Can only be determined by a Roll Call vote because the other methods do not determine whether every member attending the meeting was actually present when the vote was taken, or whether there were abstentions.

Majorities. Robert's Rules use a simple majority (one more than half) as the default for most motions. NERC uses 2/3 majority for all motions.



NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

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NERC ANTITRUST COMPLIANCE GUIDELINES

I. GENERAL

It is NERC's policy and practice to obey the antitrust laws and to avoid all conduct that unreasonably restrains competition. This policy requires the avoidance of any conduct that violates, or which might appear to violate, the antitrust laws. Among other things, the antitrust laws forbid any agreement between or among competitors regarding prices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that unreasonably restrains competition.

It is the responsibility of every NERC participant and employee who may in any way affect NERC's compliance with the antitrust laws to carry out this commitment.

Antitrust laws are complex and subject to court interpretation that can vary over time and from one court to another. The purpose of these guidelines is to alert NERC participants and employees to potential antitrust problems and to set forth policies to be followed with respect to activities that may involve antitrust considerations. In some instances, the NERC policy contained in these guidelines is stricter than the applicable antitrust laws. Any NERC participant or employee who is uncertain about the legal ramifications of a particular course of conduct or who has doubts or concerns about whether NERC's antitrust compliance policy is implicated in any situation should consult NERC's General Counsel immediately.

II. PROHIBITED ACTIVITIES

Participants in NERC activities (including those of its committees and subgroups) should refrain from the following when acting in their capacity as participants in NERC activities (e.g., at NERC meetings, conference calls and in informal discussions):

- Discussions involving pricing information, especially margin (profit) and internal cost information and participants' expectations as to their future prices or internal costs.
- Discussions of a participant's marketing strategies.
- Discussions regarding how customers and geographical areas are to be divided among competitors.
- Discussions concerning the exclusion of competitors from markets.
- Discussions concerning boycotting or group refusals to deal with competitors, vendors or suppliers.

Approved by NERC Board of Trustees
June 14, 2002

III. ACTIVITIES THAT ARE PERMITTED

From time to time decisions or actions of NERC (including those of its committees and subgroups) may have a negative impact on particular entities and thus in that sense adversely impact competition. Decisions and actions by NERC (including its committees and subgroups) should only be undertaken for the purpose of promoting and maintaining the reliability and adequacy of the bulk power system. If you do not have a legitimate purpose consistent with this objective for discussing a matter, please refrain from discussing the matter during NERC meetings and in other NERC-related communications.

You should also ensure that NERC procedures, including those set forth in NERC's Certificate of Incorporation and Bylaws are followed in conducting NERC business. Other NERC procedures that may be applicable to a particular NERC activity include the following:

- Organization Standards Process Manual
- Transitional Process for Revising Existing NERC Operating Policies and Planning Standards
- Organization and Procedures Manual for the NERC Standing Committees
- System Operator Certification Program

In addition, all discussions in NERC meetings and other NERC-related communications should be within the scope of mandate for or assignment to the particular NERC committee or subgroup, as well as within the scope of the published agenda for the meeting.

No decisions should be made nor any actions taken in NERC activities for the purpose of giving an industry participant or group of participants a competitive advantage over other participants. In particular, decisions with respect to setting, revising, or assessing compliance with NERC reliability standards should not be influenced by anti-competitive motivations.

Subject to the foregoing restrictions, participants in NERC activities may discuss:

- Reliability matters relating to the bulk power system, including operation and planning matters such as establishing or revising reliability standards, special operating procedures, operating transfer capabilities, and plans for new facilities.
- Matters relating to the impact of reliability standards for the bulk power system on electricity markets, and the impact of electricity market operations on the reliability of the bulk power system.
- Proposed filings or other communications with state or federal regulatory authorities or other governmental entities.
- Matters relating to the internal governance, management and operation of NERC, such as nominations for vacant committee positions, budgeting and assessments, and employment matters; and procedural matters such as planning and scheduling meetings.

Any other matters that do not clearly fall within these guidelines should be reviewed with NERC's General Counsel before being discussed.

SAR: Op. Within Trans. System Limits - Monitor and Assess Short-term Reliability

Standard Authorization Request (SAR) Form

Title of Proposed Standard:	Operate Within Transmission System Limits - Monitor and Assess Short-term Reliability
Request Date:	March 7, 2002
Authorized for Posting:	March 20, 2002
SAR ID# :	OPER_WITHN_LMTS_01_02

SAR Requestor Information		SAR Type (Put an 'x' in front of one of these selections)	
Name:	Jim Byrd	X	New Standard
Primary Contact:	Jim Byrd		Revision to existing Standard
Telephone:	214-743-6870		Withdrawal of existing Standard
Fax:	972-263-6710		
e-mail:	jbyrd@txu.com		Emergency Action

Purpose/Industry Need (Provide one or two sentences)

The purpose of this standard is to prevent instability, uncontrolled separation or cascading outages that adversely impact the reliability of the bulk transmission system.

Brief Description (A few sentences or a paragraph) Provide enough detail so that an independent entity familiar with the industry could draft a Standard based on this description.)

This standard requires adherence to established operating limits¹ identified to prevent instability, uncontrolled separation or cascading outages that adversely impact the reliability of the bulk transmission system.

Requirements shall address:

- Real time monitoring of system parameters against operating limits
- Performing short-term and real-time transmission reliability analyses
- Performing corrective actions to mitigate limit violations
- Keeping records and filing reports

¹ These are the limits established through the standard, "Determine Facility Ratings, Operating Limits and Transfer Capabilities"

SAR: Op. Within Trans. System Limits - Monitor and Assess Short-term Reliability

Reliability Functions

The Standard will Apply to the Following Functions (Put an 'X' in front of each one that applies)		
X	Reliability Authority	Ensures the reliability of the bulk transmission system within its Security Authority Area. This is the highest reliability authority.
	Balancing Authority	Integrates resource plans ahead of time, and maintains load-interchange-resource balance within its metered boundary and supports system frequency in real time
	Interchange Authority	Authorizes valid and balanced Interchange Schedules
	Planning Authority	Plans the bulk electric system
	Transmission Service Provider	Provides transmission services to qualified market participants under applicable transmission service agreements
	Transmission Owner	Owns transmission facilities
X	Transmission Operator	Operates and maintains the transmission facilities, and executes switching orders
	Distribution Provider	Provides and operates the "wires" between the transmission system and the customer
	Generator	Owns and operates generation unit(s) or runs a market for generation products that performs the functions of supplying energy and Interconnected Operations Services
	Purchasing-Selling Entity	The function of purchasing or selling energy, capacity and all necessary Interconnected Operations Services as required.
	Load-Serving Entity	Secures energy and transmission (and related generation services) to serve the end user

SAR: Op. Within Trans. System Limits - Monitor and Assess Short-term Reliability

Reliability and Market Interface Principles

Applicable Reliability Principles (Put an 'x' in front of all that apply)	
X	1. Interconnected bulk electric systems shall be planned and operated in a coordinated manner to perform reliably under normal and abnormal conditions.
X	2. The frequency of interconnected bulk electric systems shall be controlled within defined limits through the balancing of electric supply and demand
X	3. Information necessary for planning and operation of interconnected bulk electric systems shall be made available to those entities responsible for planning and operating the systems reliably
	4. Plans for emergency operation and system restoration of interconnected bulk electric systems shall be developed, coordinated, maintained and implemented
X	5. Facilities for communication, monitoring and control shall be provided, used and maintained for the reliability of interconnected bulk electric systems
X	6. Personnel responsible for planning and operating interconnected bulk electric systems shall be trained, qualified and have the responsibility and authority to implement actions
X	7. The security of the interconnected bulk electric systems shall be assessed, monitored and maintained on a wide area basis
<p>Does the proposed Standard comply with all of the following Market Interface Principles?</p> <p style="text-align: right;">Yes</p> <p><i>(Enter 'yes' or 'no')</i></p>	
1. Interconnected The planning and operation of bulk electric systems shall recognize that reliability is an essential requirement of a robust North American economy	
2. An Organization Standard shall not give any market participant an unfair competitive advantage	
3. An Organization Standard shall neither mandate nor prohibit any specific market structure	
4. An Organization Standard shall not preclude market solutions to achieving compliance with that Standard	
5. An Organization Standard shall not require the public disclosure of commercially sensitive information. All market participants shall have equal opportunity to access commercially non-sensitive information that is required for compliance with reliability standards	

SAR: Op. Within Trans. System Limits - Monitor and Assess Short-term Reliability

Detailed Description (Provide enough detail so that an independent entity familiar with the industry could draft a Standard based on this description.)

This standard requires that the Reliability Authority and Transmission Operator adhere to established operating limits.

Requirements shall address:

- Real time monitoring of system parameters against operating limits
 - Monitor the status of the transmission system
 - Monitor status of tie lines and interconnection
- Performing short-term and real-time transmission reliability analyses
 - Collect data needed for performing real time reliability analyses
 - Conduct an operating assessment to identify limiting facilities
- Performing corrective actions to mitigate limit violations
 - Have a mitigation plan
 - Implement mitigation plan where necessary
- Keeping records and filing reports
 - Log violations and maintain records for some period of time
 - Report information to Nerc based on specified criteria (magnitude, duration, type of violation)

Related SARs

SAR ID	Explanation
FACILITY_RATINGS_01_01	The “Determine Facility Ratings, Operating Limits, and Transfer Capabilities” SAR identifies how operating limits are established. The operating limits established within this proposed standard are referenced in the proposed “Operate Within Transmission System Limits - Monitor and Assess Short-term Reliability” standard.
COORD_OPERATONS_01_01	The “Coordinate Operations” SAR identifies what reliability-related information to exchange between Functions. Some of the information collected within the proposed “Operate Within Transmission System Limits - Monitor and Assess Short-term Reliability” standard will be used in the proposed “Coordinate Operations” standard.

SAR: Op. Within Trans. System Limits - Monitor and Assess Short-term Reliability

Regional Differences

Region	Explanation
ECAR	None identified
ERCOT	None identified
FRCC	None identified
MAAC	None identified
MAIN	None identified
MAPP	None identified
NPCC	None identified
SERC	None identified
SPP	None identified
WSCC	None identified

SAR: Op. Within Trans. System Limits - Monitor and Assess Short-term Reliability

Implementation Plan

Description (Provide plans for the implementation of the proposed standard, including any known systems or training requirements.)

The following sections of Operating Policies should be retired when this standard is implemented:

Policy 2 – Transmission

- Standard A.1.
- Standard A.1.1.
- Standard A.1.2
- Standard A.2.
- Standard A.2.1.
- Standard A.2.2.
- Requirement A.1.
- Requirement A.1.1.
- Requirement A.1.2.
- Requirement B.1.
- Requirement B.5.

Policy 9 – Security Coordinator Procedures

- Introduction – Introductory paragraph and second and third bullets
- Requirement A.1.
- Requirement A.1.2.
- Requirement A.4.
- Requirement B.1.
- Requirement B.3.
- Requirement C. 3.1.
- Requirement C.3.2.
- Requirement C.3.2.1.
- Requirement C.3.2.1.1.
- Requirement C.4.

Policy 4 – System Coordination

- Section A

Policy 5 – Emergency Operations

- Section B
- Section C
- Section D
- Section F

SAR: Op. Within Trans. System Limits - Monitor and Assess Short-term Reliability

SAR Drafting Team	
Chairman	James Case
Secretary	Tom Vandervort
Requestor	Jim Byrd/Al DiCaprio
Industry Representatives	Bill Lundin Daniel Boezio Roger Farrugia Edward Riley Toni Timberman Tony Jankowski Mark Fidrych Drew Kovalak Ellis Rankin Richard Schneider Stanley Williams Timothy Cronin