

Agenda Resources Subcommittee

July 28, 2010 | 8 a.m.–5 p.m.
July 29, 2010 | 8 a.m.–12 p.m.
Gulf Power Co. Headquarters, Room 596
500 Bayfront Parkway
Pensacola, FL 32502

1. **Administrative**

- a. Membership and Guests — Terry Bilke
 - i) Attachment: RS Organization and Assignments
 - ii) Attachment: RS Roster
 - iii) Attachment: RS Survey Contacts
- b. Arrangements — Tom Vandervort
- c. Approval of Meeting Minutes — Terry Bilke
 - i) Attachment: April 28, 2010 RS Meeting Minutes
- d. Approval of the Meeting Agenda
- e. Procedures
 - i) Attachment: Parliamentary Procedures — Terry Bilke
 - ii) Attachment: Antitrust Compliance Guidelines — Tom Vandervort
- f. Resources Subcommittee Action Items List (review prior to the meeting) — Terry Bilke
 - i) Attachment: RS Action Items List
- g. NERC–RS Confidentiality Agreement — Terry Bilke
 - i) Attachment: Confidentiality Agreement
- h. Resources Subcommittee Scope, Available on NERC RS website — Tom Vandervort
 - i) RS Scope Link: http://www.nerc.com/docs/oc/rs/RS_Scope.pdf

2. **Working Groups and Task Force Reports**

Working Group Meetings, Conference Calls, or Action since the last RS Meeting

- a. Frequency Work Group — Sydney Niemeyer
- b. Inadvertent Interchange Work Group — Don Badley
- c. Operating Reserves Work Group — Larry Akens
- d. ACE Diversity Interchange Task Force — Don Badley

3. **NERC Related Activity**

- a. NERC Operating Committee Meeting – RS Assignments — Terry Bilke, Jerry Rust
- b. Frequency Response Initiative, Activity and RS Assignments — Bob Cummings
- c. Reliability Metrics Working Group (RMWG) — Jessica Bian, Jerry Rust
- d. Reliability Fundamentals Working Group (RFWG) — Jerry Rust

4. **NERC Reliability Standards and Reliability Related Documents**

- a. Frequency Response SDT — Bill Herbsleb
- b. Reliability-based Control SDT — Doug Hils, Sydney Niemeyer
- c. Balancing Authority Control SDT — Larry Akens
- d. NERC OC Operating Manual
 - (1) Link to NERC OC Operating Manual -
http://www.nerc.com/files/opman_12-13Mar08.pdf
 - i) Performance Standards Guidelines, Approved by OC on June 15, 2010 — Terry Bilke
 - ii) Area Interchange Error Survey Training Document – Don Badley and Inadvertent Interchange Working Group
 - iii) Frequency Response Characteristic Survey Training Document – Sydney Niemeyer and Frequency Working Group
 - iv) Inadvertent Interchange Accounting Training Document – Don Badley and Inadvertent Interchange Working Group
 - v) Time Monitoring Reference Document – Don Badley and Inadvertent Interchange Working Group
- e. Balancing and Frequency Control, RS Document – Terry Bilke

5. RS Software Applications

- a. Resources Adequacy (ACE-Frequency) Application System — Gil Tam, Carlos Martinez, Terry Bilke
- b. Intelligent Alarms — Gil Tam, Carlos Martinez, Terry Bilke
- c. AIE Monitoring Application — Gil Tam, Carlos Martinez, Don Badley, Bill Herbsleb
- d. CPS1 & BAAL Monitoring Application— Gil Tam, Carlos Martinez, Doug Hils
- e. Frequency Monitoring and Analysis Application — Gil Tam, Carlos Martinez, Sydney Niemeyer, Bill Herbsleb, Terry Bilke
- f. Inadvertent Interchange Application — Gil Tam, Carlos Martinez, Don Badley, Bill Herbsleb
- g. NERC-CERTS-RS Inadvertent Interchange Application Training – Terry Bilke, Gil Tam, Carlos Martinez
- h. NERC North American SynchroPhasor Initiative (NASPI) — Terry Bilke, Bob Cummings

6. Frequency and Control Performance

- a. Western Interconnection Frequency Trends and Events — James Murphy
- b. Eastern Interconnection Frequency Trends and Events — Terry Bilke
- c. ERCOT Interconnection Frequency Trends and Events — Sydney Niemeyer
- d. Hydro Quebec Interconnection Frequency Trends and Events — Mike Potishnak
- e. CPS1, CPS2, BAAL Data Trends — Terry Bilke
- f. DCS Data Trends — Terry Bilke
- g. Inadvertent Interchange Accounting — Don Badley, Bill Herbsleb
 - i) Balances
 - ii) Mismatches
 - iii) Remaining Transition Issues
- h. FERC Study on Frequency Response of Renewable Resources —Mahmood Mirheydar
 - i) Attachment – FERC Study

7. **Time Error**

- a. Eastern Interconnection — Bill Herbsleb
- b. Western Interconnection — John Tolo
- c. ERCOT Interconnection — Sydney Niemeyer
- d. Hydro Québec Interconnection — Mike Potishnak

8. **Future Meetings**

- a. October 27–28, 2010 — Valley Forge/Philadelphia, PA, PJM Interconnection
Contact: Bill Herbsleb
- b. January 26–27, 2011— Austin, TX, ERCOT Office Contact: Sydney Niemeyer
- c. April 20–21, 2011 — San Diego, CA Location TBD, Contact WECC RS
Members
- d. July 27–28, 2011 — Denver, CO Location TBD, Contact WECC RS Members

* Future RS meetings need to be held at region, utility, or volunteer facilities

NERC Resources Subcommittee Organization

Terry Bilke (Chairman) Midwest ISO	Donald E. Badley (Vice Chairman) WECC/Northwest Power Pool Corporation	Larry Akens Tennessee Valley Authority
Gerald D. Beckerle Ameren Services Company	William Herbsleb PJM Interconnection, L.L.C.	Don McInnis Florida Power & Light Company
Jamie Murphy Bonneville Power Administration	Sydney L. Niemeyer NRG Texas Power, LLC	William Kunkel Midwest Reliability Organization
Michael J. Potishnak ISO-New England	Robert C. Rhodes, Jr. Southwest Power Pool	John Swez Duke Energy
John Tolo Tucson Electric Power Company	Michael Oatts Southern Company Services, Inc.	Thomas J. Vandervort NERC
Inadvertent Working Group Don Badley Bill Herbsleb Mike Potishnak Terry Bilke Larry Akens James Murphy William Kunkel Tony Nguyen	Frequency Working Group Sydney Niemeyer Mike Potishnak Terry Bilke Gerry Beckerle Don Badley James Murphy John Swez William Herbsleb Bob Cummings Tony Nguyen	Reserves Working Group Larry Akens Don Badley Raymond Vice Mike Potishnak Sydney Niemeyer Robert Rhodes James Murphy John Tolo John Swez Gerry Beckerle Mike Oatts
Survey Assignments		
Area Interchange Error Surveys (East)	Terry Bilke	
Frequency Response Surveys	Raymond Vice	
Inadvertent Interchange Reports (East)	Chris Scheetz	
Inadvertent Interchange Reports (West)	Don Badley	
Time Error Reports (East)	Bill Herbsleb	
Time Error Reports (West)	John Tolo	
ERCOT Reports	Sydney Niemeyer	

Resources Subcommittee

Chairman	Terry Bilke Director, Standards and Compliance	Midwest ISO, Inc. 701 City Center Drive Carmel, Indiana 46082-4202	(317) 249-5463 (317) 249-5994 Fx tbilke@ midwestiso.org
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RFC	John Swez Manager, Bulk Power Marketing	Duke Energy 419 East Fourth Street, EA606 Cincinnati, Ohio 45202	(513) 419-5332 john.swez@ duke-energy.com
SERC	Larry Akens Manager, Compliance and System Analysis	Tennessee Valley Authority 1101 Market Street MR BK-C Chattanooga, Tennessee 37402	(423) 751-8860 lgakens@tva.gov
SERC	Gerald D Beckerle Senior Transmission Operations Supervisor	Ameren Corp. One Ameren Plaza 1901 Chouteau Avenue St. Louis, Missouri 63166	(314) 554-6413 gbeckerle@ ameren.com
SERC	Michael Oatts Manager, System Control	Southern Company Services, Inc. 600 18th Street North Mail Bin PCC Birmingham, Alabama 35203	205-257-7743 205-257-6663 Fx mloatts@ southernco.com

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WECC	James Murphy Electrical Engineer	Bonneville Power Administration 5411 Hwy 99 Vancouver, Washington 98666	360-418-2413 jpmurphy@bpa.gov
WECC	John Tolo Manager, System Control & Reliability	Tucson Electric Power Co. 3950 E. Irvington Rd. Tucson, Arizona 85714	(520) 745-7106 (520) 571-4066 Fx jtolo@tep.com
Observer	Eric H. Allen Senior Performance and Analysis Engineer	North American Electric Reliability Corporation 116-390 Village Boulevard Princeton, New Jersey 08540-5721	(609) 452-8060 (609) 452-9550 Fx eric.allen@ nerc.net
Observer	Robert W. Cummings Director of System Analysis and Reliability Initiatives	North American Electric Reliability Corporation 116-390 Village Boulevard Princeton, New Jersey 08540-5721	(609) 452-8060 (609) 452-9550 Fx bob.cummings@ nerc.net
Observer	Jacob Lucas Electrical Engineer	Federal Energy Regulatory Commission Office of Electric Reliability - Division of Bulk Power System Analysis 888 First St., N.E. Washington, D.C. 20426	(202) 502-6708 Jacob.Lucas@ ferc.gov
Observer	Philip J Tatro Senior Performance and Analysis Engineer	North American Electric Reliability Corporation 116-390 Village Boulevard Princeton, New Jersey 08540-5721	(609) 452-8060 (609) 452-9550 Fx phil.tatro@ nerc.net
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NERC Resources Subcommittee Survey Contacts

CONTACT	REGION	PHONE
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William Kunkel	MRO	(651) 655-1728
Mike Potishnak*	NPCC	(413) 535-4308
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Larry Akens	TVA SERC	(423) 751-8860
Robert Rhodes* Mike Whalen (CPS) Lisa Carter (Inadvertent) David Gray (DCS)	SPP	(501) 614-3241 (501) 614-3395 (501) 614-3346 (501) 614-1632
Esperanza Cabeza de Vaca (CPS)	WECC	(801) 582-0353
John Tolo*	WECC/AZNMSNV	(520) 745-7106
Dan Tahija* John Chairez Bill Green	WECC/CAMX	(916) 351-2115 (916) 608-5775 (916) 351-2116
Don Badley ChaRee DiFabio*	WECC/NWPP	(503) 445-1076 (503) 445-1079
Robert Johnson	WECC/RMPP	(303) 273-4893
Chris Scheetz	NERC	(609) 524-7030
Carlos Martinez	CERTS	(626) 685-2015
TIME CORRECTIONS: Anthony Rowan (Midwest ISO Reliability Coordinator)	MISO	(651) 632-8403

*Primary Contact

Minutes Resources Subcommittee

April 28, 2010
Ameren General Office Building
St. Louis, Missouri

A meeting of the North American Electric Reliability Corporation (NERC) Resources Subcommittee (RS) was held on April 28, 2010 at the Ameren Corporation Office in St. Louis, Missouri. The agenda, and attendance list are attached as **Exhibits A** and **B**, respectively. There are no individual statements or minority opinions.

Resources Subcommittee Chair Terry Bilke presided and a quorum was present.

Resources Subcommittee Appreciation for Meeting Host Ameren Corporation

The Resources Subcommittee acknowledges and appreciates the hospitality that the Ameren Corporation and specifically Gerry Beckerle and Crystal Ward provided to the subcommittee as it hosted the RS meeting at their facility.

Antitrust Compliance Guidelines

Secretary Vandervort acknowledged the NERC Antitrust Compliance Guidelines.

January 27–28, 2010 RS Meeting Minutes

The RS approved the January 27–28, 2010 RS minutes.

Resources Subcommittee Welcomes New Member and Officer Change

The Resources Subcommittee welcomed Michael Oatts, Southern Company, as a SERC representative to the subcommittee. Mike has taken the position that Raymond Vice previously occupied. The RS wishes Raymond success in all of his future endeavors and activities.

Chair Bilke appointed Sydney Niemeyer to be the Chair of the Frequency Working Group as the successor to outgoing Chair Raymond Vice.

RS Acknowledges OC Goals and Objectives

The 2010 NERC Top Ten Performance Goals and Objectives are included in the RS meeting agenda. Chair Bilke acknowledged that Goal 1.d. “Assess the extent and impact of the decline in frequency responsiveness of the Eastern Interconnection and develop an action plan to address the issue.” by its subject matter is a goal of the RS. The RS will remain a key player in the NERC Frequency Response Initiative effort.

Frequency Working Group — Chair Sydney Niemeyer

Mr. Niemeyer reported that the Frequency Working Group supported the NERC Frequency Response Initiative meeting held on April 27, 2010. The Frequency Working Group will assist the initiative, the Frequency Response Standard Drafting Team, and the NERC effort to revise BAL-003 regarding the interconnection frequency performance and trends.

Inadvertent Interchange Working Group — Chair Don Badley

Bill Herbsleb gave a report to the RS on the activities of the Inadvertent Interchange Working Group. Mr. Herbsleb reported that he and Mr. Badley are working to reconcile some historical balances in the Eastern Interconnection. An issue occurs when a BA changes historical data for accuracy. When this occurs it changes all future balances from that point in time going forward. If an interconnection was balanced, it becomes unbalanced. The Inadvertent Interchange Working Group is diligently addressing this problem.

Mr. Michael Potishnak is working with CERTS Carlos Martinez to map monthly inadvertent interchange. Mr. Martinez stated that Mike's recommendations will be captured and presented to the industry during upcoming inadvertent interchange training.

The RS is scheduling two sessions of Inadvertent Interchange Training. Each session is expected to last 1 ½ days. Three RS sponsored sites are being considered, a SERC region location, a SPP region location, and a RFC region location. The first day will be an introduction to inadvertent interchange, especially useful to those that have not used the software application before or to be used as a refresher class. The second day will focus on how to troubleshoot problems, address mismatches, maneuver through the operational functions, understand and use the administrative functions, and what to do / how to proceed if problems occur. See Inadvertent Interchange Application Training, below.

Don Badley moved the RS to endorse the Inadvertent Interchange Training Sessions and to assist CERTS Carlos Martinez with the training content and arrangements as necessary. The motion passed.

Operating Reserves Working Group — Chair Larry Akens

Mr. Akens reported that a Hydro Quebec member of the Balancing Authority Control Standard Drafting Team (BACS DT) has submitted a preliminary Operating Reserves technical paper to the SDT for review, evaluation, and to use as an operating reserve standards reference document. After the BACS DT comes to consensus on a version of the technical document, Mr. Akens will present the document to the Operating Reserves Working Group for their review and endorsement.

Frequency Response Initiative

Bob Cummings, NERC Director of System Analysis and Reliability Initiatives, and the Frequency Response Standard Drafting Team, the Reliability-based Control Standard Drafting Team, industry subject matter experts, the Balancing Authority-control Standard Drafting Team, the Frequency Working Group, and the Resources Subcommittee met for a full day meeting to discuss the NERC Frequency Response Initiative on Tuesday, April 27, 2010. Numerous RS members are on the various standard drafting teams and work closely with Mr. Cummings on the Frequency Response

Initiative team. The RS Frequency Working Group will assist the Frequency Response Initiative, the Frequency Response Standard Drafting Team, and the NERC effort to revise BAL-003 regarding the interconnection frequency performance and trends.

Inadvertent Interchange Application Training

CERTS Inadvertent Interchange Application training is in the NERC 2010 budget. The training will be at two locations and will be scheduled to last 1 ½ days for each session. The meeting beverages and lunch expenses will have to be worked out. Training participants maybe on there own for lunch. Beverages may be provided by the host organization or be funded by NERC, this expense will be determined as the training is finalized. The three sites and the RS contacts that are being considered are SPP (Robert Rhodes), Southern Co. (Mike Oatts), and MISO (Terry Bilke).

ACE Diversity Interchange (ADI)

Don Badley, the ADI Task Force chair, reported that the ADITF met after the January RS meeting and will meet on Thursday, April 29, 2010. The ADITF will make assignments to members to begin drafting the ADI technical paper to fulfill its OC assignment and scope. The technical paper, when finished will be presented to the RS, the Interchange Subcommittee, and the Operating Reliability Subcommittee for approval and authorization to present the paper to the NERC Operating Committee. At the discretion of the OC, the ADITF may be retired or it may be requested by the OC to generate an ADI standard authorization request.

NERC BA Bubble Diagram

The RS authorized the posting of the revised NERC BA Bubble Diagram. The RS is asked to review the Bubble Diagram posted on the NERC RS Web site for inaccuracies and errors. The RS will work with the NERC Compliance Registry Program to keep the Bubble Diagram up-to-date with the changes to the NERC registry. Chair Bilke will review the diagram to ensure that there are no US BAs shown in Canada.

The BA Bubble Diagram can be found at: http://www.nerc.com/docs/oc/rs/ctrl_nerc.jpg

NERC Reliability Standards

Numerous RS members are on the listed standard drafting teams. These standards began as RS-sponsored standard authorization requests (SARs). Each standard drafting team is developing new or revising existing standard(s), and will post all the documents for industry comment through the NERC Standards Program. The goal for each standard drafting team is to make significant progress towards the next comment posting or standard ballot.

Frequency Response SDT — Chair Bill Herbsleb

The FRRSDT is coordinating efforts with the RS, the Frequency Working Group, NERC Staff, and the NERC Frequency Response Initiative team. Based on the March 18, 2010 FERC Order the FRRSDT is revising BAL-003. The FRRSDT is also supporting the Frequency Response Initiative.

Reliability-based Control SDT — Chair Doug Hils

Doug Hils, Reliability-based Control Standard Drafting Team (RBCSDT) chair, reported to the RS that the RBCSDT field trials are continuing with status conference calls taking place each month.

Mr. Hils stated that the WECC has begun participation in the RBCSDT field trials with approximately half of the WECC BAs participating and more WECC BAs anticipated joining in the near future.

RBC monthly field trial summaries, documents and tools can be found on the RBCSDT Web site at:

http://www.nerc.com/filez/standards/Reliability_Based_Control_FieldTrial_Tools_2007-18-RF.html

Balancing Authority Control SDT (BAL-002, 004, 005, 006 Revisions) — Chair Larry Akens
Larry Akens, Balancing Authority Control Standard Drafting Team (BACSDT) chair, reported that the drafting team meets each month in a meeting or via a conference call. The drafting team is making significant progress towards revising the standards for posting and ballot. The BACSDT will meet again on April 29, 2010 to continue its drafting process.

Intelligent Alarms

Doug Hils reported that he visited the Reliability Coordinator Working Group to present the RS authorized revised Intelligent Alarms, frequency trigger limits (FTLs) alarms, RC action recommendations. Mr. Hils reported that the RCWG supported the changes. The changes have already been incorporated into the NERC Intelligent Alarms, FTL 5 minute alarms.

Performance Standard Reference Guidelines

Secretary Vandervort will post the Performance Standard Reference Document comments and responses on the NERC RS Web site. Chair Bilke will present the Performance Standards Reference Guidelines to the Operating Committee at the OC meeting to replace the current version in the NERC Operating Manual.

Reliability Metrics Working Group

Jerry Rust, OC Member and RMWG liaison conveyed to the RS that any frequency response analysis it had planned to undertake, the RMWG would assist in the documenting and trending the proposed metric(s).

The RMWG utilizes S.M.A.R.T. (specific, measurable, attainable, relevant, and tangible) criteria that proposed metrics must meet. The RMWG will consider, evaluate, and work with the RS if it deems the trend meets the criteria.

NERC Active Resources Subcommittee Applications

Consortium for Electric Reliability Technology Solutions (CERTS) project manager Carlos Martinez presented a status of the NERC RS applications, see **Exhibit C**. The presentation focused on:

- Research Results for Automatic Identification of Frequency Events and Calculated Frequency Response – Research Objectives
- Frequency Response Data Collection and Analysis System (FRDCA)
- Current and Outstanding Application Issues

- Inadvertent Interchange Change of Scope will be presented to the Inadvertent Interchange Working Group to begin field testing
- The Frequency Monitoring and Alarm Change of Scope will be presented to the RS and the Frequency Working Group to execute Field Testing
- A 2-page User Guide for Intelligent Alarms and Resources Adequacy applications will be prepared to help the Reliability-based Control Standard Drafting Team (BAAL) field test. Field Test Volunteers: Don Badley, Tony Nguyen, Larry Akens, Mike Oatts, Mike Potishnak, Bill Herbsleb, Terry Bilke, James Murphy, John Tolo, Bob Cummings (including NERC Situational Awareness and Reliability Initiatives; and Situational Awareness staff), John Swez, Doug Hils, Gerry Bilke, and Tom Vandervort
- Transition of NERC applications projects, Change of Scopes, support and training of Gil Tam from EPG started in February, 2010. Gil will be taking over and presenting the applications support, CoS status and training during the RS meeting in July, 2010.

DOE North American SynchroPhasor Initiative (NASPI) — Information Only

From the January, 2010 RS meeting, Mr. Bilke reported that the NASPI Real Time Data Measuring System (RTDMS) visualization tool is very good and recommended the RS members take a look at it. Additional information can be found on the following Web sites:

- <http://www.naspi.org/>
- <http://www.powerit.vt.edu/Fnet.htm>
- www.rtdmsusersgroup.org<<http://www.rtdmsusersgroup.org>>

FERC Study on Frequency Response of Renewable Resources

Mahmood Mirheydar reported that FERC is performing a study to determine if frequency response is an appropriate metric to assess the reliability impacts of integrating renewable resources is complete but has not been released to the public. The report may be released to the public before the next RS meeting, if so, Mr. Mirheydar will be able to report on the results, conclusions, and recommendations.

Time Error Monitoring

The subcommittee reported the following time error monitoring statistics:

Interconnection Time Error Totals Jan – Mar, 2010			
	Fast Time Error Corrections	Slow Time Error Corrections	Total Time Error Corrections
Eastern Interconnection	25	0	25
Western Interconnection	12	9	21
ERCOT #	-	-	-
Hydro Québec *	-----	-----	-----

* Hydro Quebec has a frequency based time error monitoring process that does not fit this table.
 # ERCOT TEC data not available at this time.

Performance Monitoring

- CPS1 Review

- CPS2 Review
- DCS Review

The NERC compliance program determines control performance standards CPS1, CPS2, and disturbance control standard (DCS) violations, penalties, and monitors corrective actions. The Resources Subcommittee members are required to sign a NERC Confidentiality Agreement prior to reviewing and discussing the CPS1, CPS2, and DCS reports.

Due to the confidential nature of the data, details of the discussion and review the results of the call cannot be disclosed.

Resources Subcommittee Action Item List

Tom Vandervort reviewed and updated the action item list, which is affixed as **Exhibit D**.

Wednesday, July 28, 2010 Thursday, July 29, 2010	8 a.m. – 5 p.m. 8 a.m. – noon	Pensacola, FL Host: Southern Co Office * Coordinator: Mike Oatts
Wednesday, October 27, 2010 Thursday, October 28, 2010	8 a.m. – 5 p.m. 8 a.m. – noon	Philadelphia, PA Host: PJM Office or TBD * Coordinator: Bill Herbsleb
Wednesday, January 26, 2011 Thursday, January 27, 2011	8 a.m. – 5 p.m. 8 a.m. – noon	Austin, TX Host: ERCOT Office * Coordinator: Sydney Niemeyer
Wednesday, April 20, 2011 Thursday, April 21, 2011	8 a.m. – 5 p.m. 8 a.m. – noon	San Diego, CA Host: TBD, WECC RS members * Coordinator: WECC RS Members
Wednesday, July 27, 2011 Thursday, July 28, 2011	8 a.m. – 5 p.m. 8 a.m. – noon	Denver, CO Host: TBD, WECC RS members* Coordinator: WECC RS Members

Dates and Locations of Future Meetings

Additional meetings or conference calls may be scheduled as necessary for RS business-related purposes.

* Future RS meetings will be hosted at RS member, Region, utility, or volunteer facilities.

Respectfully submitted,

Tom Vandervort

Thomas J. Vandervort
 Resources Subcommittee Secretary

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 <i>or</i> End Debate	Yes	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 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.

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

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, Bylaws, and Rules of Procedure are followed in conducting NERC business.

In addition, all discussions in NERC meetings and other NERC-related communications should be within the scope of the 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.

**Resources Subcommittee
 July 28, 2010 Meeting
 Open Action Items List**

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
Resources Subcommittee	NERC Frequency Response Initiative	042710, Resources Subcommittee to support Bob Cummings and the Frequency Response Initiative (FRI). RS will work with RS Frequency WG, the RBCSDT, the BACSDT, the FRRSDT, NERC Staff, FERC Staff, and industry contributors to address relative issues and concerns. 072810, Bob Cummings to give a status of the FRI and RS-related FRI assignments.	072810	
Terry Bilke	Bubble Diagram	042810, Terry Bilke to review the NERC BA Bubble Diagram to ensure that the US BAs are not located in Canada.	072810	
Bill Herbsleb, Mike Potishnak	BA Check List for Decertificaton	102809, Bill Herbsleb, Mike Potishnak, and Tom Vandervort to develop some sort of check list on what needs to be done when a BA: <ul style="list-style-type: none"> • New Certifications • Decertifications • Merges • Consolidates, Etc. 012710, Terry asked Bill and Mike to develop the BA Check List. Mike wants to have the BA mapping as part of the resolution (what is looked at before and after a BA divides, merges, retires, etc. – the initial BA and resulting BA). 042810, Bill Herbsleb to send NERC BA certification / decertification action items to Tom Vandervort to process.	072810	
Resources Subcommittee	NERC OC Operating Manual Docs	073108, RS members on each open BAL-related standard drafting team are to request that the SDT write or plan to write a modules for each SDT specific requirement and how to achieve technical results for the PSRD. 102908, Resources Subcommittee recommended to the OC that the RS documents that are found in the OC Operating Manual be kept in the manual. 102908, RS Working Groups and RBCSDT, BACSDT, and FRSDT are to revise	072809	

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
		<p>the documents for accuracy. RS will then submit the revised documents to the RFWG to update the manual. SDTs can develop the documents as standards reference documents to support their respective standards.</p> <p>012909, John Swez to review the Performance Standard Reference Document for accuracy. Ongoing action item.</p> <p>RS Operating Manual documents are:</p> <p>Performance Standard Reference Guidelines (PSRG) – John Swez – Note the OC approved the PSRG on June 15, 2010</p> <p>Area Interchange Error Survey Training Document – Don Badley and Inadvertent Interchange WG</p> <p>Frequency Response Training Document – Sydney Niemeyer and Frequency WG</p> <p>Inadvertent Interchange Accounting Training Document – Don Badley and Inadvertent Interchange WG</p> <p>Time Monitoring Reference Document – Don Badley and Inadvertent Interchange WG</p> <p>121609, NERC posted the Performance Standard Reference Document for 45 day comment period which ends on Feb 12, 2010.</p> <p>072810, The OC approved the PSRG on June 15, 2010. The RS anticipates the remaining OC Operating Manual documents to be revised during the SDT standards revision process.</p>		
Tom Vandervort	Performance Standard Referenced Guidelines	<p>042810, Tom Vandervort to post the PSRG, comments, and responses on the NERC RS website.</p> <p>060110, Operating Manual posted with the revised PSRG.</p>	072810	060110
Tom Vandervort	CPS Reporting to NERC	<p>042810, Tom Vandervort to reply to entity that inquired about BAL-001 reporting requirement – to report CPS data to NERC. Refer to Terry’s e-mail and have the individual contact Terry if he wants to discuss the reporting requirements.</p> <p>060110, Tom Vandervort responded to inquiry with Terry’s e-mail.</p>	072810	060110
Tom Vandervort	Coordinate NERC RS Applications with CIP Group	<p>042810, Tom Vandervort to coordinate the NERC RS applications with the CIP Program. Contact Bill Herbsleb to get background on RS concerns.</p>	072810	
Tom Vandervort	DCS Report	<p>042810, Tom Vandervort to contact Chris Scheetz on why the right two columns are not always filled in on the quarterly reports with the data that is submitted. (e.g. Robert Rhodes identified SPP DCS reports that had the data submitted, but the data</p>	072810	061410

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
		was not on the quarterly report). 061410, Chris has and will continue to include all information that is submitted on the DCS reports. This action item is closed.		
Tom Vandervort	DCS Report	042810, Tom Vandervort to contact Chris Scheetz to incorporate the asterisk by the WECC BAs on the CPS2 Data for the Last 12 months that are participating in the RBCSDT Field Trials. The asterisk should be the same as the Eastern Interconnection. 061410, Chris has revised the DCS Reports to include a note for all the BAs that are participating in the RBCSDT BAAL field trials. This action item is closed	072810	061410
Don Badley , Bill Herbsleb and Inadvertent Interchange Work Group	Inadvertent Interchange Balances	010109, HIGH PRIORITY Coordinated effort is necessary to attain and incorporate the proper 2006 and 2007 carry-forward inadvertent interchange data. 102909, Don Badley and Bill Herbsleb are aggressively addressing the mismatched balances, in progress. Don and Bill may call upon RS members for assistance to resolve mismatches and balance the Eastern Interconnection inadvertent interchange accounts. 012710, Don and Bill will prepare and send out a summary of the EI mismatches. 072810, Don and Bill to update the II balancing effort and request RS assistance.	072810	
	NERC-CERTS Project Review			
Gil Tam, Carlos Martinez	Inadvertent Interch missing or mismatch data entries	072809, Based on RS suggestion, Gil and Carlos to send e-mail notification to BAs' staff that performs Inadvertent Interchange application data entries when triggers show missing or mismatched data. Gil and Carlos to work closely with Don Badley and Bill Herbsleb. Ongoing effort.	072810	
Robert Rhodes, Mike Oatts, Terry Bilke	Inadvertent Interchange Training	042810, Robert, Mike, Terry to check for availability of their meeting facilities to host Inadvertent Interchange application training. Training will be 1 ½ day sessions at two of these three locations. 072810, Gil Tam and Carlos Martinez to update the efforts to hold two inadvertent interchange training sessions.	072810	
Don Badley Bill Herbsleb	Inadvertent Interchange Training	042810, Don, Bill, and the Inadvertent Interchange Working Group are to work with CERTS Carlos martinez and Gil Tam to finalize training plans. 072810, Gil Tam and Carlos Martinez to update the efforts to hold two inadvertent	072810	

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
		interchange training sessions. This item to be merged with the above action item.		



NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

**NERC CONFIDENTIALITY AGREEMENT
FOR
NERC RESOURCES SUBCOMMITTEE MEMBERS**

This Confidentiality Agreement (“Agreement”), dated _____, is between the North American Electric Reliability Corporation (“NERC”), and

_____, a member of the NERC Resources Subcommittee (“RS Member”) (collectively referred to as “Parties”).

WHEREAS, NERC Compliance Monitoring and Enforcement Program collects, reviews, evaluates, and determines if the control performance data is acceptable or in violation of NERC reliability standards’ requirements; and

WHEREAS, NERC Resources Subcommittee, in accordance with the Resources Subcommittee Charter, is the NERC technical resource to support resolution of balancing resources and demand issues and interconnection frequency related issues by providing industry leadership and guidance on matters relating to balancing resources and demand issues and interconnection frequency related issues; reviewing balancing authorities’ control performance on a periodic basis; and addressing technical issues on Automatic Generation Control (AGC), Time Error Correction, Operating Reserves, and Frequency Response; and

WHEREAS, NERC staff and software vendors have established computer applications to collect, tabulate, and carry out the collection and analysis process for both the Compliance Monitoring and Enforcement Program and the NERC Resources Subcommittee; and

WHEREAS, in order for the Resources Subcommittee to fulfill its charter, it is necessary for the Resources Subcommittee Members to have access to confidential control performance data and information from operating entities within NERC, and to be able to conduct open and unconstrained discussions among team members,

The Parties therefore agree as follows:

1. The term “Control Performance Data” means all data and information that the operating entities within NERC regions have furnished or are furnishing to NERC in connection with the operating entities’ operations within the Bulk Power System, whether furnished before or after the date of this Agreement, whether tangible or intangible, and in whatever form or medium provided (including, without limitation, oral communications), as well as all information generated by the Compliance Monitoring and Enforcement Program.

2. The RS Member understands and agrees that the Control Performance Data is being made available solely for purposes of the work of the Resources Subcommittee and that the Control Performance Data shall not be used in any manner to further the commercial interests of any person or entity. The RS Member further understands and agrees that he or she will not disclose Control Performance Data to any person who has not signed this Agreement except:

- a. as such disclosure may be required by law or judicial or regulatory order;
- b. in accordance with paragraph 5; or
- c. that a RS Member who is NERC or Regional Entity staff member may make Control Performance Data available to the NERC or regional compliance program.

3. If the RS Member's employing organization has signed the NERC Confidentiality Agreement for Operating Reliability Data ("NERC ORD Agreement"), paragraph 2 shall not be deemed to prohibit RS Member from disclosing Control Performance Data to other employees of that organization, but only to the extent that "operating reliability" as defined in the NERC ORD Agreement is shared within the organization.

4. The Parties expressly agree that Control Performance Data shall otherwise only be disclosed through official releases and reports as authorized by NERC.

5. It shall not be a violation of this Agreement for the RS Member to discuss a specific balancing authority's Control Performance Data with the specific balancing authority staff with the intent to improve the specific balancing authority's Control Performance.

6. This Agreement shall be for the sole benefit of the parties hereto. This Agreement may be modified or waived only by a separate writing signed by the Parties. If any clause or provision of this Agreement is illegal, or unenforceable, then it is the intention of the Parties hereto that the remainder of this Agreement shall not be affected thereby, and it is also the intention of the Parties that in lieu of each clause or provision that is illegal, invalid or unenforceable, there be added as part of this Agreement a clause or provision as similar in terms to such illegal, invalid or unenforceable clause or provision as may be possible and be legal, valid and enforceable. This Agreement will be governed and construed in accordance with the laws of the State of New Jersey, except for any choice of law requirement that otherwise may apply the law from another jurisdiction.

This Agreement shall have a term of five (5) years from the date hereof.

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

By: _____

Printed: _____

Title: _____

NERC RESOURCES SUBCOMMITTEE MEMBER

Signed: _____

Printed: _____