

Agenda Resources Subcommittee (RS)

January 25, 2012 | 1 p.m.–5 p.m.
January 26, 2012 | 8 a.m.–5 p.m.

Florida Power and Light
4200 West Flagler Street
Coral Gables, Florida
305-442-5272

Conference – 1-866-740-1260, Pass code 5247004

Introductions and Chair's Remarks

NERC Antitrust Compliance Guidelines and Public Announcement

Agenda

1. Administrative

- a. Membership and Guests* — Chair Badley
 - i. RS Organization and Assignments
 - ii. RS Roster
 - iii. RS Survey Contacts
- b. Arrangements — Larry Kezele
- c. Parliamentary Procedures* — Larry Kezele
- d. **Approval** — Meeting Agenda — Chair Badley
- e. **Approval** — October 26–27, 2011 Meeting Minutes* — Chair Badley
- f. Resources Subcommittee Action Items List* — Chair Badley
- g. NERC–RS Confidentiality Agreement* — Chair Badley

2. Working Groups and Task Force Reports

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

- e. Discussion – Is there a need for a half day meeting for one on the Work Groups?

3. NERC Related Activity

- a. NERC Operating Committee Action Items Assigned to RS — Chair Badley
 - i. Manual Time Error Correction Elimination Field Trial — Terry Bilke
 - ii. Sharing ANI/SNI data in real time to improve reliability
- b. Support for Frequency Response Initiative and Frequency Response Standards — Chair Badley
 - i. Select Candidate Events
 - ii. Evaluate Current Frequency Response
 - iii. Observations from 2011 Annual Bias Setting
- c. Frequency Response Initiative, Activity and RS Assignments — Bob Cummings
- d. Frequency Event Repository: Short-term (NERC Situation Awareness) and Long-term (FMA Application) — Chair Badley
- e. Performance Analysis Subcommittee (formerly the Reliability Metrics Working Group) — Chair Badley
- f. Additional Off-Peak Days* – Larry Kezele

4. NERC Reliability Standards and Reliability Related Documents

- a. Frequency Response SDT— David Lemmons
- b. Balancing Authority Reliability-based Control SDT — Larry Akens
- c. NERC OC Operating Manual
 - i. Area Interchange Error Survey Training Document — Chair Badley and Inadvertent Interchange Working Group
 - ii. Frequency Response Characteristic Survey Training Document — Sydney Niemeyer and Frequency Working Group
 - iii. Inadvertent Interchange Accounting Training Document — Chair Badley and Inadvertent Interchange Working Group
 - iv. Time Monitoring Reference Document — Chair Badley and Inadvertent Interchange Working Group
- d. Recovery from Losses Greater Than Most Severe Single Contingency Within 15-minutes (PacifiCorp Outage) – Chair Badley

5. NERC/CERTS Software Applications Tutorial — Carlos Martinez**6. RS Software Applications— Gil Tam**

- a. Resources Adequacy (ACE-Frequency) Application
- b. Intelligent Alarms
- c. AIE Monitoring Application
- d. CPS1 & BAAL Monitoring Application
- e. Frequency Monitoring and Analysis Application
- f. Inadvertent Interchange Application
- g. NERC-CERTS-RS Inadvertent Interchange Application Support of TEC Field Trial
- h. Real-time Dynamic Measuring System (RTDMS)
- i. ARR Daily Events

7. Frequency and Control Performance and Time Error

- a. Frequency Performance, Trends and Events and Time Error
 - i. Western Interconnection — James Murphy and John Tolo
 - ii. Eastern Interconnection — Terry Bilke
 - iii. ERCOT Interconnection — Sydney Niemeyer
 - iv. Hydro Québec Interconnection — Mike Potishnak
 - v. TEC Field Trial Impact Analysis (Placeholder for Future Meetings)
- b. CPS1, CPS2, BAAL Data Trends — Chair Badley
- c. DCS Data Trends — Chair Badley
- d. Inadvertent Interchange Accounting — Chair Badley
 - i. Balances
 - ii. Mismatches
 - iii. Remaining Transition Issues
 - iv. TEC Field Trial Observations and Statistics (Placeholder for Future Meetings)

8. Future Meetings

- a. April 25–26, 2012 — San Francisco, CA or San Antonio, TX, Host TDB, Contact WECC RS or ERCOT RS Members
- b. July 25–26, 2012 — Montreal, QC, Host HQT, Contact NPCC RS Members
- c. October 24–25, 2012 — Atlanta, GA, Host NERC, Contact NERC Staff

*Background materials included.

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.

NERC Resources Subcommittee Organization

Don Badley (Chair) WECC/Northwest Power Pool	Gerald D. Beckerle (Vice Chair) Ameren Services Company	Larry Akens Tennessee Valley Authority
Terry Bilke Midwest ISO	John Tolo Tucson Electric Power Company	Don McInnis Florida Power & Light Company
James Murphy Bonneville Power Administration	William Kunkel Midwest Reliability Organization	Sydney L. Niemeyer NRG Texas Power, LLC
Tony Nguyen British Columbia Hydro	Michael Oatts Southern Company Services	Michael J. Potishnak ISO-New England
Robert C. Rhodes, Jr. Southwest Power Pool	John Swez Duke Energy	
Larry Kezele NERC		
Inadvertent Working Group Don Badley – Chair Mike Potishnak Terry Bilke Larry Akens William Kunkel James Murphy Tony Nguyen Tom Pruitt Tabitha Hernandez	Frequency Working Group Sydney Niemeyer – Chair Mike Potishnak Terry Bilke Gerry Beckerle Don Badley James Murphy John Swez Robert Rhodes Bob Cummings Tony Nguyen Carlos Martinez Troy Blalock Tom Pruitt John Tolo	Reserves Working Group Larry Akens – Chair Don Badley Mike Potishnak Sydney Niemeyer Robert Rhodes James Murphy John Tolo John Swez Gerry Beckerle Mike Oatts Troy Blalock
Survey Assignments		
Area Interchange Error Surveys (East)	Terry Bilke	
Frequency Response Surveys (ERCOT)	Sydney Niemeyer	
Frequency Response Surveys (WECC)	To Be Determined	
Frequency Response Surveys (East)	To Be Determined	
Frequency Response Surveys (HQ)	To Be Determined	
Inadvertent Interchange Reports (East)	Chris Scheetz	
Inadvertent Interchange Reports (West)	Don Badley	
Time Error Reports (East)	To Be Determined	
Time Error Reports (West)	John Tolo	
ERCOT Reports	Sydney Niemeyer	

Resources Subcommittee

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NERC Resources Subcommittee Survey Contacts

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*Primary Contact

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.

Minutes

Resource Subcommittee (RS)

Administrative

A meeting of the RS was held on October 26–27, 2011 in Las Vegas, Nevada. The agenda and attendance list are attached as **Exhibits A and B**, respectively.

RS Chair Terry Bilke presided and Larry Kezele announced that a quorum was present. Larry Kezele read the applicable Notice of Public Meeting and acknowledged the NERC Antitrust Compliance Guidelines. The subcommittee reviewed and revised the RS Organization and Assignments, the RS Roster, and the RS Survey Contacts.

July 27–28, 2011 Meeting Minutes

The subcommittee approved the July 27–28, 2011 meeting minutes, as amended.

Resources Subcommittee Action Item List

Larry Kezele updated the action item list, which is affixed as **Exhibit C**, based on the subcommittee's discussion.

Resources Subcommittee Confidentiality Agreement

Larry Kezele reviewed the listing of those individuals that have signed the RS confidentiality agreement. Chair Bilke tasked Mr. Kezele with sending the confidentiality agreement to those on the RS roster that have not yet signed the agreement.

Election of Officers

Chair Bilke informed the subcommittee that his term as chair of the subcommittee ends on December 31, 2011 and that he is not seeking reelection. Mike Potishnak reported that Don Bradley and Gerry Beckerle expressed a desire to serve as either chair or vice chair. By ballot the subcommittee elected Don Badley as chair and Gerry Beckerle as vice chair. Chair Bilke will inform Tom Bowe, chair of the Operating Committee (OC), of the subcommittee's decision.

Working Group and Task Force Reports

1. **Frequency Working Group** — Chair Sydney Niemeyer reported that the Frequency Working Group met on October 26, 2011. He will develop the Form 1's for each Interconnection by November 1, 2011. The Frequency Working Group will also meet by conference call in mid-November to review each Interconnection's list of frequency events.
2. **Inadvertent Interchange Working Group** — Chair Don Badley reported that the working group will meet on October 28, 2011. He is continuing to address inadvertent interchange

accumulations in the Eastern Interconnection. The subcommittee discussed the benefits and value of pursuing the inadvertent interchange accumulation mismatches. Gil Tam reported that the accumulation goes back to December 31, 2008. Since the beginning of 2009, the Eastern Interconnection has balanced its inadvertent interchange accumulations. The subcommittee also discussed locking down the inadvertent interchange accumulations of each balancing authority and agreed that the final resolution of the Eastern Interconnection accumulated inadvertent interchange must be presented to the Operating Committee for approval.

3. **Operating Reserves Working Group** — Chair Larry Akens reported that the working group has not met since the subcommittee's last meeting. However, the Balancing Authority Reliability-based Controls (BARC) standard drafting team (SDT) and the Frequency Response SDT are developing BAL-012 (Operational Reserves Planning Standard).
4. **ACE Diversity Interchange Task Force** — Chair Don Badley stated that the draft white was sent to the OC and the Interchange, Resources, and Operating Reliability Subcommittees for comments. Comments are due by November 4, 2011.
5. **Working Group Meetings** — Chair Bilke
The Frequency Working Group will meet on the morning of January 25, 2012 from 8:00 a.m. – 12:00 p.m. The subcommittee meeting will begin at 1:00 p.m. on January 25, 2012 and will meet from 8:00 a.m. – 5:00 p.m. on January 26, 2012.

NERC Related Activity

1. **Time Error Correction Elimination Field Trial**
Chair Bilke provided the subcommittee a Manual Time Error Correction Elimination Field Trial status report. The field trial implementation project team is developing a document entitled *TEC Field Test Options Discussion* for presentation to the OC at its December 2011 meeting. To enable the field trial implementation project team to better assess options available to implement the field trial, Chair Bilke developed a survey, which is available at <http://www.surveymonkey.com/s/5PG2KSG>. He encouraged the subcommittee and the field trial implementation project team to participate in the survey and to provide comments on the *TEC Field Test Options Discussion* document by October 28, 2011.
2. **Sharing ANI/SNI Data in Real Time to Improve Reliability**
Mike Oatts reported that the OC requested further input from the Interchange Subcommittee (IS), the RS and the Operating Reliability Subcommittee (ORS) related to a project to share, within each Interconnection, actual and scheduled net interchange in real time. Actual net interchange information could be made available by ICCP and an application developed. However, it may be more problematic to receive scheduled net interchange by ICCP. Mr. Oatts is developing a survey for discussion by the IS and ORS to aid in the assessment determining how to move this project forward.

3. **Request for Comments on the ACE Diversity Interchange White Paper**
See ACE Diversity Interchange Task Force report above.
4. **Support for Frequency Response Initiative and Frequency Response Standards**
Refer to the Frequency Working Group's report above.
5. **ALR1-12 Frequency Response Metric Data Collection Process**
Matthew Varghese provided a summary of a document entitled *ALR1-12 Frequency Response Metric Data Collection Process*, draft dated September 23, 2011 (**Presentation 1**). The frequency response data collection process is a 10-step process which begins with CERTS/EPG producing a monthly spreadsheet for the four Interconnections and ends with publication of quarterly frequency response metric data on NERC's reliability indicators webpage by the Performance Analysis Subcommittee. Chair Bilke stated that NERC staff and the Frequency Working Group will continue to use the *ALR1-12 Frequency Response Metric Data Collection Process* to gather data related to frequency events. Mr. Varghese has frequency data from the Eastern and ERCOT Interconnections; however, he needs frequency data from the WECC and HQT Interconnections.
6. **Housekeeping Tasks for New, Reconfigured, or Retiring Balancing Authorities**
Mike Potishnak provided a summary of a document entitled *Housekeeping Tasks for New, Reconfigured, or Retiring Balancing Authorities* included in the agenda. The subcommittee proposed several revisions (**Exhibit D**).
7. **Frequency Response Initiative, Activity and RS Assignments**
See Frequency Working Group discussion above.
8. **Frequency Event Repository: Short-term (NERC Situation Awareness) and Long-term (FMA Application)**
Chair Bilke reported that it is his expectation that once Bob Cummings has completed the frequency events spreadsheet that the spreadsheet will be publicly posted. A non-public version of the spreadsheet will also be available to the subcommittee.
9. **Reliability Metrics Working Group**
See discussion of *ALR1-12 Frequency Response Metric Data Collection Process* above.

NERC Reliability Standards and Reliability Related Documents

1. Frequency Response Standard Drafting Team

Chair Bilke reported that the Frequency Response Standard Drafting Team posted BAL-003-1 (Frequency Response and Frequency Bias Setting) for comment on October 25, 2011. The comment period ends on December 8, 2011.

2. Balancing Authority Reliability-based Controls Standard Drafting Team

Larry Akens, chair of the BARC SDT, summarized drafting team activities (**Presentation 2**). The drafting team is developing four reliability standards for stakeholder consideration:

- a. Revisions to BAL-001 (Real Power Balance): CPS2 is retired and BAAL added
- b. Revisions to BAL-002 (Disturbance Control for Loss of Resource): Standard revised to provide more clarity
- c. BAL-012 (Operational Reserves Planning): Addresses Regulating, Contingency and Frequency Responsive Reserves
- d. BAL-013 (Disturbance Control for Loss of Load): Similar to BAL-002

Mr. Akens stated that the drafting team anticipates posting the above standards for public comment in mid-December 2011.

3. NERC Operating Manual

a. Area Interchange Error Survey Training Document

Vice Chair Badley, chair of the Inadvertent Interchange Working Group, reported that the working group anticipates developing a revised AIE Survey Training Document for review by the subcommittee at its next meeting.

b. Frequency Response Characteristic Survey Training Document

Chair Bilke reported that the Frequency Response Characteristic Survey Training Document maybe retired when the work of the Frequency Response Standard Drafting Team is completed.

c. Inadvertent Interchange Accounting Training Document

Vice Chair Badley, chair of the Inadvertent Interchange Working Group, reported that the working group has not yet addressed updating this training document.

d. Time Monitor Reference Document

Chair Bilke reported that the Manual TEC Elimination Field Trial project team will develop a Time Monitor Procedure that reflects the recommendation of the Manual Time Error Correction Elimination Field Trial implementation project team for use by the Interconnection Time Monitors.

Resources Subcommittee Software Applications

1. Gil Tam, representing Electric Power Group (EPG), provided a summary of the following applications (**Presentation 3**).
 - a. Resources Adequacy
 - b. Intelligent Alarms
 - c. Area Interchange Error Monitoring
 - d. CPS and BAAL Monitoring
 - e. Frequency Monitoring and Analysis
 - f. Inadvertent Interchange
 - g. Automated Reliability Reports

Mr. Tam also noted that EPG implemented a sign convention change in the Frequency Monitoring and Analysis application and stated the following regarding the frequency event detection methodology:

Delta Frequency Detection Methodology – A frequency event is detected and captured if during a 15-second rolling window the frequency jumps beyond the frequencies shown in the table below for each Interconnection. The thresholds in the table are being monitored and tuned to ensure the appropriate significant events are captured. Currently EPG is investigating a more effective threshold for HQT.

2. **NERC-CERTS-RS Inadvertent Interchange Application Support of TEC Field Trial**
The Inadvertent Interchange Working Group will develop metrics to support the Manual Time Error Correction Elimination Field Trial.
3. **North American SynchroPhasor Initiative (NASPI) and Real-Time Dynamic Measuring System (RTDMS)**
Chair Bilke reported that reliability entities can request access to RTDMS. Robert Rhodes informed the subcommittee of a RTDMS training workshop in mid-November 2011.
4. **ARR Daily Reports**
Sydney Niemeyer reported that the event timing (T_0) is not consistent with other EPG application. Gil Tam will review.

Time Error, Frequency Performance, and Control Performance

1. Time Error, Frequency and Control Performance

a. Western Interconnection Trends and Events

James Murphy reviewed the Western Interconnection frequency and control performance (**Presentation 4**) and John Tolo reviewed the Western Interconnection year-to-date time error reports (**Exhibit E**).

b. Eastern Interconnection Trends and Events

Chair Bilke reviewed the Eastern Interconnection frequency and control performance (**Exhibit F**). He also reviewed the Eastern Interconnection time error report (**Presentation 5**).

c. ERCOT Interconnection Trends and Events

Sydney Niemeyer reviewed the ERCOT Interconnection frequency and control performance and time error report (**Presentation 6**).

d. Hydro Quebec Interconnection Trends and Events

Chair Bilke reviewed the Hydro Quebec Interconnection frequency and control performance and time error report (**Exhibit G**).

2. CPS1 and CPS2 Data Trends

In closed session, the subcommittee discussed CPS1 and CPS2 data trends.

3. DCS Data Trends

In closed session, the subcommittee discussed DCS data trends.

4. Inadvertent Interchange Accounting

Vice Chair Badley reviewed Western Interconnection on-peak and off-peak inadvertent interchange monthly balances. Vice Chair Badley and the Inadvertent Interchange Working Group developed an Eastern Interconnection on-peak and off-peak inadvertent interchange monthly balances report.

5. TEC Field Trial Observations and Statistics

Since the Manual Time Error Correction Field Trial has not yet started, this agenda topic was not discussed.

Dates and Locations of Future Meetings

Wednesday, January 25, 2012 (FWG)	8:00 a.m. – noon	Miami Coordinator: Don McInnis
Wednesday, January 25, 2012 (RS)	1:00 p.m. – 5:00 p.m.	
Thursday, January 26, 2012 (RS)	8:00 a.m. – 5:00 p.m.	
Wednesday, April 25, 2012	8:00 a.m. – 5:00 p.m.	San Francisco Alternate: San Antonio Coordinator: WECC RS Members or ERCOT RS Members
Thursday, April 26, 2012	8:00 a.m. – noon	
Wednesday, July 25, 2012	8:00 a.m. – 5:00 p.m.	Montreal, QC Alternate: Portland, OR Coordinator: NPCC RS Members or WECC RS Members
Thursday, July 26, 2012	8:00 a.m. – noon	
Wednesday, October 24, 2012	8:00 a.m. – 5:00 p.m.	Atlanta Coordinator: NERC Staff
Thursday, October 25, 2012	8:00 a.m. – noon	

Adjourn

The subcommittee meeting adjourned at 3:05 p.m. PDT on October 27, 2011.

Respectfully submitted,

Larry Kezele

Larry Kezele
Resources Subcommittee Secretary



**Resources Subcommittee
October 26–27, 2011 Meeting
Open Action Items List**

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
Resources Subcommittee	NERC Frequency Response Initiative	<p>042710, Resources Subcommittee to support Bob Cummings and the Frequency Response Initiative (FRI). RS will work with RS Frequency WG, the BARCSDT, the FRRSDT, NERC Staff, FERC Staff, and industry contributors to address relative issues and concerns.</p> <p>012611, Bob Cummings to give a status of the FRI and RS-related FRI assignments.</p> <p>012711, Work with Bob Cummings to develop a common data set and finalize the field test parameters.</p> <p>072711. Working to finalize an events list by 090111 for all Interconnections.</p> <p>10/26/11. FWG and NERC to finalize events list by 11/1/11.</p>	Ongoing	
Mike Potishnak	BA Check List for Decertification or New BAs	<p>102809, Bill Herbsleb, Mike Potishnak, and Tom Vandervort to develop some sort of check list on what needs to be done when a BA:</p> <ul style="list-style-type: none"> • New Certifications • Decertifications • Merges • Consolidates, Etc. <p>012710, Terry asked Bill and Mike to develop the BA Check List.</p> <p>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).</p> <p>042810, Bill Herbsleb to send NERC BA certification / decertification action items to Tom Vandervort to process.</p>	020311	

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
		<p>102710, Bill drafted a BA certification check-list for new BAs, merged BAs, and decertified BAs. Bill requested the RS to review and enhance the check-list for the January, 2011 RS meeting.</p> <p>012711 Bill Herbsleb to send out the check list to Jim Hughes.</p> <p>042011 Bill Herbsleb to send the check list to Jim Hughes.</p> <p>072711 Mike Potishnak to send the check list to Jim Hughes.</p> <p>10/26/11. Housekeeping document reviewed and finalized. Larry Kezele to have posted to RS web site.</p>		
Don Badley	Inadvertent Interchange Balances Determination	<p>102810, Bill will draft a letter on behalf of the RS to the Balancing Authorities (BAs) in the Eastern Interconnection stating their inadvertent interchange balances prior to January, 2007 with a request to the BAs to identify any disputes with evidence to correct and establish a definitive historic and accurate inadvertent interchange balance.</p> <p>012711 RS reviewed draft letter. Terry Bilke will issue the revised letter.</p> <p>042011 Letter issued, with responses due from BAs by 041511. Discuss later in the agenda.</p> <p>072711 Chair Bilke asked the Inadvertent Working Group seek additional resources to help in tracking inadvertent. He suggested that the working group generate a quarterly report for RS review. Gil Tam noted that EPG sends out two inadvertent reports each month that identifies what BAs have submitted data and the accuracy of the data.</p> <p>10/26/11 Vice Chair Badley reported on his progress to resolve EI inadvertent balances.</p>	021111	
Resources Subcommittee	NERC OC Operating Manual Docs	<p>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.</p> <p>102908, Resources Subcommittee recommended to the OC that the RS documents that are found in the OC Operating Manual be kept in the manual.</p> <p>102908, RS Working Groups and RBCSDT, BACSDT, and FRSDT are to revise 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>	Ongoing	

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
		<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, new PSRG inserted into the NERC Operating Manual</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 – Expect update by next meeting.</p> <p>Time Monitoring Reference Document – Don Badley and Inadvertent Interchange WG – Terry Bilke and Mike Potishnak will review for inconsistencies with proposed TEC Field Trial</p> <p>121609, NERC posted the Performance Standard Reference Document for 45 day comment period which ends on Feb 12, 2010.</p> <p>102710, 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> <p>072711 Chair Bilke reported that is an ongoing task.</p> <p>10/26/11 No change in status.</p>		
Larry Kezele	CPS Data	<p>102810, During the CPS data review, it was pointed out that not all Canadian entities are included in the CPS Summary. Tom to visit with Chris Scheetz to include future Canadian entities into the CPS Summary.</p> <p>012711 Review data later in today's meeting</p> <p>072711 Some Canadian entities are still missing from the CPS1, CPS2, and DCS reports. Don Badley contacted Chris Scheetz regarding this issue.</p> <p>10/26/11 Don Badley working with WECC staff to resolve.</p>	012611	
Gil Tam	Inadvertent Interchange Application	<p>102810, Gil to explain what does the Inadvertent Interchange application "locked" and "unlocked" terms mean? Explain if there is an audit trail for locking and unlocking the application whenever there is an adjustment.</p> <p>012711 Bill Herbsleb's letter will address this issue.</p> <p>042011 Gil Tam reported that only SPP locks its inadvertent interchange data. This is also a training issue for regional administrators. EPG will investigate developing a</p>	012611	

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
		<p>user training program.</p> <p>042011 EPG could develop an audit trail report for the inadvertent interchange application.</p> <p>072711 Training issue for regional administrators. Gil Tam to review meaning of percentage of lock.</p> <p>10/26/11 Gil Tam continues to address this action item.</p>		
Eddy Lim	Collect and analyze data to establish a new primary frequency control metric	<p>012711 Collect and analyze data to establish a new primary frequency control metric</p> <p>042011 Continuing to support the Frequency Response Initiative and other frequency response activities. Use data from 2009 through first quarter 2011.</p> <p>072711 Bob Cummings is reviewing the comments received and will be issuing a final report by September 1, 2011.</p> <p>10/26/11 No update provided.</p>	June Operating Committee meeting	
Don McInnis	FRCC BA use of NERC Inadvertent Interchange Application	<p>042011 FRCC investigating uploading its inadvertent interchange date into the NERC Inadvertent Interchange Application.</p> <p>072711 Don McInnis not available to provide an update.</p> <p>10/26/11 Don McInnis and Don Badley working to resolve.</p>	July RS Meeting	

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: _____

Additional Off-peak Days (aka "Holidays")

All "NERC Additional Off-Peak Holidays" for the Eastern and Western Interconnections 2011-2016 are approved by the NERC Resources Subcommittee. While an exact formula does not exist, recently these six "NERC Additional Off-Peak Holidays" have been selected using the following methods:

Three of these days occur on the same day each year:

- **Memorial Day** is the last Monday in May.
- **Labor Day** is the first Monday in September.
- **Thanksgiving Day** is the fourth Thursday in November.

New Year's Day, Independence Day, and Christmas Day, by definition, are predetermined dates each year. However, in the event that they fall on a Sunday, The "NERC Additional Off-Peak Holiday" is celebrated the Monday immediately following that Sunday. If these days fall on a Saturday, the "NERC Additional Off-Peak Holiday" remains on that Saturday.

On-peak/Off-peak Definitions: The on-peak/off-peak hours used to be defined in NERC's Policy 1, Appendix 1F. However, they were determined to be a business practice rather than a reliability practice so they were moved over to the North American Energy Standards Board (NAESB). They are defined in NAESB's [WEO-11PTE](#).

- Additional Off-peak days - [csv file](#)

2011	New Year's Day	January 1	Saturday
	Memorial Day	May 30	Monday
	Independence	July 4	Monday
	Labor Day	September 5	Monday
	Thanksgiving Day	November 24	Thursday
	Christmas Day	December 26	Monday
2012	New Year's Day	January 2	Monday
	Memorial Day	May 28	Monday
	Independence	July 4	Wednesday
	Labor Day	September 3	Monday
	Thanksgiving Day	November 22	Thursday
	Christmas Day	December 25	Tuesday

2013	New Year's Day	January 1	Tuesday
	Memorial Day	May 27	Monday
	Independence	July 4	Thursday
	Labor Day	September 2	Monday
	Thanksgiving Day	November 28	Thursday
	Christmas Day	December 25	Wednesday
2014	New Year's Day	January 1	Wednesday
	Memorial Day	May 26	Monday
	Independence	July 4	Friday
	Labor Day	September 1	Monday
	Thanksgiving Day	November 27	Thursday
	Christmas Day	December 25	Thursday
2015	New Year's Day	January 1	Thursday
	Memorial Day	May 25	Monday
	Independence	July 4	Saturday
	Labor Day	September 7	Monday
	Thanksgiving Day	November 26	Thursday
	Christmas Day	December 25	Friday
2016	New Years	January 1	Friday
	Memorial Day	May 30	Monday
	Independence Day	July 4	Monday
	Labor Day	September 5	Monday
	Thanksgiving	November 24	Thursday
	Christmas	December 26	Monday

NERC Resources Subcommittee, January 26, 2011

Please direct all questions to [Chris Scheetz](#)