

## Minutes Resources Subcommittee

January 26–27, 2011

ERCOT Austin Executive and Administration Center  
7620 Metro Center Drive  
Austin, Texas

A meeting of the North American Electric Reliability Corporation (NERC) Resources Subcommittee (RS) was held on January 26–27, 2011 in Austin, Texas. The agenda and attendance list are attached as **Exhibits A** and **B**, respectively.

Resources Subcommittee Chair Terry Bilke presided and Larry Kezele announced that a quorum was present. Larry Kezele read the applicable Notice of Public Meeting.

### **Antitrust Compliance Guidelines**

Larry Kezele acknowledged the NERC Antitrust Compliance Guidelines.

### **October 27–28, 2010 Meeting Minutes**

The RS approved the October 27–28, 2010 meeting minutes.

### **Administrative**

The RS reviewed and revised the RS Organization and Assignments, the RS Roster, and the RS Survey Contacts.

### **Working Group and Task Force Reports**

- 1. Frequency Working Group** — Chair Sydney Niemeyer  
Mr. Niemeyer reported that the Frequency Working Group did not have a meeting or activity since the last RS meeting. Frequency Working Group members are very involved in the NERC Frequency Response Initiative, the Frequency Response Standard Drafting Team, and the Balancing Authority Reliability-based Control Standard Drafting Team. Don Badley reported that WECC issued two frequency response characteristic surveys.
- 2. Inadvertent Interchange Working Group** — Chair Don Badley  
Mr. Badley reported that the working group has not met since the subcommittee's last meeting.

3. **Operating Reserves Working Group** — Chair Larry Akens

Mr. Akens reported that the Operating Reserves Working Group has not met since the subcommittee's last meeting. Operating Reserves Working Group members are very involved in the Balancing Authority Reliability-based Control (BARC) Standard Drafting Team. Five of the nine BARCSDT are members of the RS. The BARCSDT is developing an Operating Reserves white paper.

4. **ACE Diversity Interchange Task Force** — Chair Don Badley

Mr. Badley reported that the ADITF is making progress in drafting an ADI white paper. The task force will conduct a meeting on Thursday, January 27, 2011 and Friday, January 28, 2011 to continue its review of the white paper.

**NERC Related Activity**

1. **Inadvertent Interchange Balances**

Chair Bilke reported that the Operating Committee approved sending a letter to the Eastern Interconnection balancing authorities indicating what the subcommittee believes their inadvertent interchange balance is effective January 2007. (Note: In addition, see Time Error, Frequency Performance, and Control Performance, Section 6 – Inadvertent Interchange Accounting.)

2. **Time Error Correction Field Trial**

Chair Bilke reviewed a proposal to implement a Time Error Correction Elimination Field Trial (**Presentation 1**). He reviewed the Operating Committee's motions to move the proposed field trial forward. The subcommittee discussed moving directly to elimination of time error corrections versus a more gradual transition that would eventually lead to the elimination of time error corrections. Larry Akens encouraged NERC to discuss the subcommittee's plan related to the time error correction field trial with FERC staff. Mike Potishnak and Vice Chair Badley will redraft the BAL-004 Manual Time Error Correction Field Test Memo to reflect the subcommittee's discussion. *Bill Herbsleb moved to notify the Operating Committee that the subcommittee's preference is to totally eliminate manual time error corrections (i.e., not to consider a phased in approach).* The subcommittee approved the motion. The subcommittee discussed what Interconnections would participate in the field trial and decided that all three Interconnections (ERCOT, Eastern, and Western) would participate.

3. **RS Position on Frequency Response**

Chair Bilke reported that the Frequency Response position paper is currently posted for comment with comments due by February 1, 2011. Mr. Bilke and the Frequency Working Group will address the comments.

4. **Integration of Variable Generation Task Force Sub-group Report "Ancillary Service and Balancing Authority Area Solutions to Integrate Variable Generation"**

John Swez provided an overview of the *Ancillary Service and Balancing Authority Area Solutions to Integrate Variable Generation* report, which is currently posted for comment until January 31, 2011. He specifically highlighted section 2.1 (Regulation

and Load Following), section 2.2 (Contingency Reserves), section 3.1 (Variable Generation Output Forecasts), and the report's recommendations. He will provide a summary of the subcommittee's comments to the IVGTF Sub-group.

**5. Annual Bias Calculation Review**

Chair Bilke reported that NERC drafted and issued for review the CPS2 bounds report and he encouraged subcommittee members to review the report to verify accuracy of the reported data. John Tolo suggested that the subcommittee address the process of developing the CPS2 bounds report. The subcommittee would like to complete its review of the CPS2 bounds report by February 1, 2011 for implementation by March 1, 2011.

Bill Herbsleb reported that the Frequency Response Standard Drafting Team is considering implementing a field trial that would lower the minimum frequency bias to 0.8 percent (as compared to the 1.0 percent value reflected in BAL-003). The drafting team would like to begin the field trial in May 2011.

**6. Frequency Response Initiative**

Bob Cummings, Director of System Analysis and Reliability Initiatives, reported that the Frequency Response Initiative is conducting two surveys related to the initiative and the survey responses are being evaluated. The survey results are being used to improve system modeling of governor response.

**7. Frequency Event Repository**

Chair Bilke reported that NERC is taking steps to develop a frequency event repository. In the short-term, the NERC Situation Awareness program area is gathering event information and in the long-term the FMA application could be used as a repository.

**8. Sharing Actual and Scheduled Net Interchange Data in Real Time to Improve Reliability**

Chair Bilke suggested that the subcommittee consider sharing actual and scheduled net interchange data in real time to improve reliability. In addition, he suggested that the subcommittee reach out to the Reliability Coordinator Working Group or the Operating Reliability Subcommittee for their thoughts regarding capturing this information. This would improve visibility in identifying scheduling errors that could be impacting Interconnection frequency.

**9. Reliability Metrics Working Group**

Jerry Rust, the Reliability Metrics Working Group's liaison to the RS, discussed reliability metric ALR1-12 (Interconnection Frequency Response). Mr. Rust requested the subcommittee's further review of metric ALR1-12 and help in determining what data could be consistently gathered across the Interconnections. When can the data be gathered and sent to the RMWG? The underlying data is available from each Interconnection, but the data needs to be scrubbed and verified for accuracy. Bill Herbsleb stated that the data needs to be available by the end of the second quarter of 2011.

## **NERC Reliability Standards and Reliability Related Documents**

### **1. Frequency Response Standard Drafting Team**

Bill Herbsleb, chair of the Frequency Response Standard Drafting Team, asked the subcommittee for volunteers to help develop the details to support the drafting team's proposed bias field trial. The field trial procedure will address metrics and a back-out plan.

### **2. Balancing Authority Reliability-based Controls Standard Drafting Team**

Larry Akens, chair of the Balancing Authority Reliability-based Controls Standard Drafting Team, reported that, due to a change in assignment at Duke Energy, Doug Hils stepped down as the drafting team's co-chair. The drafting team will likely be assigned a new NERC staff facilitator. Finally, as a result of NERC's re-prioritization of standard drafting projects, the work of the BARC standard drafting team may be placed on hold.

### **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 Standard Drafting Team will be reviewing this training document.

#### **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 Time Monitor Reference Document should be reviewed to assure there are no conflicts with the proposed Manual Time Error Correction Field Trial.

### **4. Balancing and Frequency Control Document**

Chair Bilke will send the current version of the Balancing and Frequency Control Document to the subcommittee for a final review before the document is posted to the subcommittee's website.

## **Resources Subcommittee Software Applications**

1. Gil Tam, Electric Power Group, provided a summary of the applications shown below (**Presentation 2**). Mr. Tam also discussed the current frequency event detection methodology and proposed a replacement frequency event detection methodology. The subcommittee will do a comparison of the two methodologies for a period of time before making a transition.

#### **a. Resources Adequacy**

- b. Intelligent Alarms
  - c. Area Interchange Error
  - d. CPS1 and BAAL Monitoring
  - e. Frequency Monitoring and Analysis
  - f. Inadvertent Interchange
  - g. Automated Reliability Reports
2. **NERC-CERTS-RS Inadvertent Interchange Application Support of TEC Field Trial**  
This agenda item was not discussed.
3. **North American SynchroPhasor Initiative and Real-time Dynamic Measuring System**  
Chair Bilke reported that version 7.1 of RTDMS will be released later this year and there will be a user training session.

## **Time Error, Frequency Performance, and Control Performance**

1. **Time Error and Frequency Performance**
- a. **Western Interconnection Trends and Events**  
James Murphy reviewed the Western Interconnection frequency performance (**Presentation 3**) and John Tolo reviewed the Western Interconnection time error report (**Presentation 4**).
  - b. **Eastern Interconnection Trends and Events**  
Chair Bilke reviewed the Eastern Interconnection frequency performance (**Presentation 5**) and Bill Herbsleb reviewed the Eastern Interconnection time error report (**Presentation 6**).
  - c. **ERCOT Interconnection Trends and Events**  
Sydney Niemeyer reviewed the ERCOT Interconnection frequency performance and time error report (**Presentation 7**). Mr. Niemeyer also reviewed ERCOT's frequency rate of change (**Presentation 8**).
  - d. **Hydro Quebec Interconnection Trends and Events**  
Chair Bilke reviewed the Hydro Quebec Interconnection frequency performance and time error report (**Presentation 9**).
2. **CPS1, CPS2, BAAL Data Trends**  
In closed session, the subcommittee discussed CPS1, CPS2, and BAAL data trends.
3. **DCS Data Trends**  
In closed session, the subcommittee discussed DCS data trends.
4. **Request Made by RS Chair for all FRCC Balancing Authorities to use the NERC Inadvertent Interchange Application**  
Chair Bilke reported that three FRCC balancing authorities that interface with SERC check out inadvertent balances with Southern Company; however, the subcommittee

requests each FRCC balancing authority to enter this data into the inadvertent interchange application. Alternatively, the FRCC balancing authorities need to designate a single point of contact that can validate Inadvertent Interchange data. This will be needed in particular to support the TEC elimination field test.

5. **Status of New/Reconfigured Balancing Authority Checklist**

Bill Herbsleb reported that he received limited input from the Reliability Coordinator Working Group and the IDC Working Group related to their review of the balancing authority checklist. Mr. Herbsleb will request NERC compliance staff review.

6. **Inadvertent Interchange Accounting**

Vice Chair Badley reviewed Western Interconnection on-peak and off-peak inadvertent interchange monthly balances and Bill Herbsleb reviewed the Eastern Interconnection on-peak and off-peak inadvertent interchange monthly balances.

Bill Herbsleb reported that, since the Eastern Interconnection implemented the “pseudo-BA” for inadvertent interchange in the fourth quarter of 2010, the interconnection has balanced. The Eastern Interconnection needs to address mismatches prior to January 2007. Mr. Herbsleb reviewed a draft letter on behalf of the RS to the balancing authorities in the Eastern Interconnection stating their inadvertent interchange balances. The letter requests each balancing authority to identify any discrepancies in the data and to provide evidence to correct their indicated balance. This will help in establishing a definitive historic and accurate inadvertent interchange balance. The subcommittee discussed suggested revisions to the letter.

7. **TEC Field Trial Observations and Statistics**

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

8. **FERC Study on Frequency Response of Renewable Resources**

Eddy Lim provided an overview of the draft report *Use of Frequency Response Metrics to Assess the Planning and Operating Requirements for Reliable Integration of Variable Renewable Generation*, dated December 2010 (**Presentation 10**). The draft report is posted at <http://www.ferc.gov/industries/electric/indus-act/reliability/frequencyresponsemetrics-report.pdf>. Supporting documents are posted at <http://www.ferc.gov/industries/electric/indus-act/reliability.asp#anchor>. Comments on the draft report are due by March 7, 2011.

**Resources Subcommittee Action Item List**

Larry Kezele reviewed and updated the action item list, which is affixed as **Exhibit C**.

**Dates and Locations of Future Meetings**

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

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
Wednesday, October 26, 2011 Thursday, October 27, 2011	8 a.m. – 5 p.m. 8 a.m. – noon	Las Vegas, NV Host: TBD, WECC RS members* Coordinator: WECC RS Members
Wednesday, January 25, 2012 Thursday, January 26, 2012	8 a.m. – 5 p.m. 8 a.m. – noon	Ft. Lauderdale / Miami Alternate: Tampa Coordinator: Don McInnis
Wednesday, April 25, 2012 Thursday, April 26, 2012	8 a.m. – 5 p.m. 8 a.m. – noon	San Francisco Alternate: San Antonio Coordinator: WECC RS Members

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

**Adjourn**

The subcommittee meeting adjourned at 12:02 p.m. CST on January 27, 2011.

Respectfully submitted,

*Larry Kezele*

Larry Kezele  
 Resources Subcommittee Secretary

## Agenda Resources Subcommittee

January 26, 2011 | 8 a.m.–5 p.m.  
January 27, 2011 | 8 a.m.–12 p.m.

ERCOT Austin Executive and Administration Center  
7620 Metro Center Drive  
Austin, Texas

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

### 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 — Larry Kezele
- c. Notice of Public Meeting — Larry Kezele
  - i) Participants are reminded that this meeting is public. Notice of the meeting was posted on the NERC website and widely distributed. The notice included the number for dial-in participation. Participants should keep in mind that the audience may include members of the press and representatives of various governmental authorities, in addition to the expected participation by industry stakeholders.
- d. Approval of Meeting Minutes — Terry Bilke
  - i) Attachment: October 27–28, 2010 RS Meeting Minutes
- e. Approval of the Meeting Agenda
- f. Procedures
  - i) Attachment: Parliamentary Procedures — Terry Bilke
  - ii) Attachment: Antitrust Compliance Guidelines — Larry Kezele

- g. Resources Subcommittee Action Items List (review prior to the meeting) — Terry Bilke
  - i) Attachment: RS Action Items List
- h. NERC–RS Confidentiality Agreement — Terry Bilke
  - i) Attachment: Confidentiality Agreement
- i. Resources Subcommittee Scope, Available on NERC RS website — Larry Kezele
  - i) RS Scope Link: [http://www.nerc.com/docs/oc/rs/RS\\_Scope.pdf](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 Action Items Assigned to RS
  - i) Letter on Inadvertent Interchange balances
  - ii) Time Error Correction Field Trial
    - (1) Attachment: BAL-004 Manual Time Error Correction Field Test Memo
    - (2) Attachment: Time Error Correction White Paper
  - iii) RS Position Paper on Frequency Response, dated November 23, 2010
    - (1) Attachment: RS Position Paper on Frequency Response, dated November 23, 2010
- b. Integration of Variable Generation Task Force Sub-group Report “Ancillary Service and Balancing Authority Area Solutions to Integrate Variable Generation – John Swez  
  
(Note: The draft report is posted for comment at:  
[http://www.nerc.com/docs/pc/ivgtf/IVGTF2\\_3CleanSB\(11.22\).pdf](http://www.nerc.com/docs/pc/ivgtf/IVGTF2_3CleanSB(11.22).pdf) and comments are due by January 31, 2011.)
- c. Annual Bias Calculation review-Terry Bilke, Bill Herbsleb
- d. Frequency Response Initiative, Activity and RS Assignments — Bob Cummings
- e. Frequency Event Repository - Short-term (NERC Situation Awareness) and Long-term (FMA Application) – Terry Bilke, Jessica Bian
- f. Sharing ANI/SNI data in real time to improve reliability. Terry Bilke

- g. Reliability Metrics Working Group (RMWG) — Jessica Bian, Jerry Rust

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

- a. Frequency Response SDT — Bill Herbsleb
- b. Balancing Authority Reliability-based Control SDT — Doug Hils, Larry Akens
- c. NERC OC Operating Manual

(Note: The NERC OC Operating Manual is posted at  
[http://www.nerc.com/files/opman\\_12-13Mar08.pdf](http://www.nerc.com/files/opman_12-13Mar08.pdf))

- i) Area Interchange Error Survey Training Document – Don 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 – Don Badley and Inadvertent Interchange Working Group
- iv) Time Monitoring Reference Document – Don Badley and Inadvertent Interchange Working Group
- d. Balancing and Frequency Control Document, RS Document – Terry Bilke, Alan O’Neal

(Note: Under separate cover, the secretary will send the June 15, 2010 draft of the Balancing and Frequency Technical Document to the RS)

**5. RS Software Applications**

- a. Resources Adequacy (ACE-Frequency) Application — Gil Tam, Terry Bilke
- b. Intelligent Alarms — Gil Tam, Terry Bilke
- c. AIE Monitoring Application — Gil Tam, Don Badley, Bill Herbsleb
- d. CPS1 & BAAL Monitoring Application— Gil Tam, Doug Hils
- e. Frequency Monitoring and Analysis Application — Gil Tam, Sydney Niemeyer, Bill Herbsleb, Terry Bilke
- f. Inadvertent Interchange Application — Gil Tam, Don Badley, Bill Herbsleb
- g. NERC-CERTS-RS Inadvertent Interchange Application Support of TEC Field Trial – Terry Bilke, Gil Tam
- h. NERC North American SynchroPhasor Initiative (NASPI) and Real-time Dynamic Measuring System (RTDMS) — Terry Bilke, Bob Cummings
- i. ARR Daily Events – Status update on previously reported problems

**6. Frequency and Control Performance**

- a. Frequency Performance

- i) Western Interconnection Frequency Trends and Events — James Murphy
- ii) Eastern Interconnection Frequency Trends and Events — Terry Bilke
- iii) ERCOT Interconnection Frequency Trends and Events — Sydney Niemeyer
- iv) Hydro Quebec Interconnection Frequency Trends and Events — Mike Potishnak
- v) TEC Field Impact Analysis (Placeholder for Future Meetings)
- b. CPS1, CPS2, BAAL Data Trends — Terry Bilke
- c. DCS Data Trends — Terry Bilke
- d. FRCC Request Made by RS Chair for all FRCC BAs to use the NERC Inadvertent Interchange Application – Terry Bilke
- e. Status of New/Reconfigured BA checklist –Bill Herbsleb, Mike Potishnak
- f. Inadvertent Interchange Accounting — Don Badley, Bill Herbsleb
  - i) Balances
  - ii) Mismatches
  - iii) Remaining Transition Issues
  - iv) TEC Field Trial Observations and Statistics (Placeholder for Future Meetings)
- g. FERC Study on Frequency Response of Renewable Resources – Eddy Lim

**7. Time Error**

- a. Eastern Interconnection — Bill Herbsleb
- b. Western Interconnection — John Tolo
- c. ERCOT Interconnection — Sydney Niemeyer
- d. Hydro Québec Interconnection — Mike Potishnak
- e. Field Trial Status (placeholder for future meetings)

**8. Future Meetings**

- a. April 20–21, 2011 – San Diego, CA, Location TBD, Contact: WECC RS Members
- b. July 27–28, 2011 – Denver, CO, Location TBD, Contact: WECC RS Members
- c. October 26–27, 2011 Las Vegas, NV, Location TBD, Contact: WECC RS Members
- d. January 25–26, 2012 Tampa, FL, Location TBD, Contact: Don McInnis

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

# NERC

NORTH AMERICAN ELECTRIC  
RELIABILITY CORPORATION

## Attendance Resources Subcommittee Meeting

January 26–27, 2011  
ERCOT Austin Executive and Administration Center  
Austin, Texas

### Attendance:

<u>Name</u>	<u>Attendance</u>
Terry Bilke, Chair	Y
Don Badley, Vice Chair	Y
Sydney Niemeyer	Y
Don McInnis	
Bill Kunkel	Y
Mike Potishnak	Y
Bill Herbsleb	Y
John Swez	Y
Larry Akens	Y
Gerry Beckerle	Y
Mike Oatts	Y
Robert Rhodes	Y
James Murphy	Y
Tony Nguyen	Y
John Tolo	Y
Larry Kezele	Y
Bob Cummings	Y
Philip Tatro	Y
Eddy Lim	Y
Carlos Martinez	Y
Gil Tam	Y
Darrel Richardson	Y
Tom Siegrist	Y
Jerry Rust	Y
LeRoy Patterson	Y



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

<b>Action Figure</b>	<b>Subject</b>	<b>Action Item/Assignment</b>	<b>Due Date</b>	<b>Completion Date</b>
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>	Ongoing	
Bill Herbsleb, 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"> <li>• New Certifications</li> <li>• Decertifications</li> <li>• Merges</li> <li>• Consolidates, Etc.</li> </ul> <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> <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</p>	020311	

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
		January, 2011 RS meeting. 012711 Bill Herbsleb to send out the check list to Jim Hughs.		
Bill Herbsleb Mike Potishnak	FMA Application Accuracy	102810, Gil Tam, CERTS requested the RS to review the (+ or -) signs in the FMA application to ensure accuracy of the FMA Application. Bill Herbsleb and Mike Potishnak volunteered to review the BA Bias signs in the FMA Application.  012711 Bob Cummings and Bill Herbsleb to review.	Ongoing	
Bill Herbsleb	Inadvertent Interchange Balances Determination	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.  012711 RS reviewed draft letter. Terry Bilke will issue the revised letter.	021111	
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.  <b>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.</b>  012909, John Swez to review the Performance Standard Reference Document for accuracy. Ongoing action item.  RS Operating Manual documents are:  <b>Performance Standard Reference Guidelines (PSRG) – John Swez</b> – Note the OC approved the PSRG on June 15, 2010, new PSRG inserted into the NERC Operating Manual  <b>Area Interchange Error Survey Training Document – Don Badley and Inadvertent Interchange WG</b>  <b>Frequency Response Training Document – Sydney Niemeyer and Frequency WG</b>  <b>Inadvertent Interchange Accounting Training Document – Don Badley and Inadvertent Interchange WG – Expect update by next meeting.</b>	Ongoing	

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
		<p><b>Time Monitoring Reference Document – Don Badley and Inadvertent Interchange WG – Terry Bilke and Mike Potishnak will review for inconsistencies with proposed TEC Field Trial</b></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>		
Terry Bilke and RS	OC Charge – Position Paper on Frequency Response	<p>102810, The OC requested the RS write a position paper on Frequency Response. Terry wrote an initial draft of the position paper (see Oct 27 RS meeting agenda) and asked the RS to comment and enhance the paper, in order to present it to the OC at its December, 2010 OC meeting.</p> <p>012711 RS to make final comments by February 1, 2011. The Frequency Working Group and Terry Bilke will meet by conference call and webcast on February 4 at 12 pm EST for 4 hours to revise the position paper based on the comments received.</p>	Complete For the March OC meeting	
Bill Herbsleb, Tom Vandervort	Coordinate NERC RS Applications with CIP Group	<p>072810, Tom Vandervort to coordinate the NERC RS applications with the CIP Program. Contact Bill Herbsleb to get background on RS concerns. Awaiting a check list from Bill.</p> <p>102810, The PJM Situation Awareness tools cannot be closed for a week to 10 days. Bill is going to come up with a list of tools that can be used to install new software applications. Then we will have a conference call to discuss with Bill, TV, CERTS/EPG, and NERC IT, as necessary.</p> <p>012711 Open to next subcommittee meeting.</p>	012611	
Tom Vandervort	NERC – CERTS Applications Vetting	<p>072810, Tom Vandervort to work with Gil, Carlos, and Brian Nolan to discuss the NERC Monitoring Applications Central Registration, Installation &amp; Documentation process.</p> <p>102810, Bob to work with Gil to standardize a singular User ID an Password for all NERC CERTS/EPG applications (instead of having a User Name and Password for each NERC CERTS Application. Bob Cummings and TV to coordinate this activity.</p> <p>102810, This Action Item is considered closed.</p> <p>012711 Gil Tam will review a proposal at the subcommittee's next meeting</p>	102810	102710
Tom Vandervort	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>	012611	

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
		012711 Review data later in today's meeting		
Don Badley , Bill Herbsleb and Inadvertent Interchange Work Group	Inadvertent Interchange Balances	<p>010109, <b>HIGH PRIORITY</b></p> <p>Coordinated effort is necessary to attain and incorporate the proper 2006 and 2007 carry-forward inadvertent interchange data.</p> <p>102909, Don Badley and Bill Herbsleb are aggressively addressing the mismatched balances, in progress. <b>Don and Bill may call upon RS members for assistance to resolve mismatches and balance the Eastern Interconnection inadvertent interchange accounts.</b></p> <p>012710, Don and Bill will prepare and send out a summary of the EI mismatches.</p> <p>072810, Don and Bill to update the II balancing effort and request RS assistance. Terry would like to see carry-forward II balances identified as "Unresolved Balances" to identify and fix the mismatched II.</p> <p>102810, CERTS/EPG will establish a "Pseudo-BA" in the Eastern Interconnection to capture the mismatch inadvertent interchange data in one account until all BAs accounts can be settled.</p> <p>012711 Reviewed Bill Herbsleb's draft letter and established a pseudo-BA</p>	012611	
	<b>NERC-CERTS Project Review</b>			
Gil Tam	Inadvertent Interch missing or mismatch data entries	<p>072809, Based on RS suggestion, Gil to send e-mail notification to BAs' staff that performs Inadvertent Interchange application data entries when triggers show missing or mismatched data. Gil to work closely with Don Badley and Bill Herbsleb. Ongoing effort.</p> <p>012611, Gil to update the RS on the effort to notify BAs staffs when Inadvertent Interchange application data entries when triggers show missing or mismatch data.</p> <p>012711 Mr. Tam announced that the upgrade will be release in February 2011.</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>	012611	
Larry Kezele	Time Error Correction Field Trial	012711 Develop a Field Trial email exploder.	March OC meeting	
Larry Kezele	Time Error Correction	012711 Keep Terry Bilke and Larry Akens in loop when developing NERC	Ongoing	

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
	Field Trial	communications package.		
Larry Kezele	Process for developing the CPS2 bounds report	012711 At the fall subcommittee meeting, the RS will develop a process for drafting the CPS2 bound report.	Fall RS meeting	
Eddy Lim	Collect and analyze data to establish a new primary frequency control metric	012711 Collect and analyze data to establish a new primary frequency control metric	September Operating Committee meeting	