

Minutes Resources Subcommittee

April 30–May 1, 2008
Washington, D.C.

A meeting of the North American Electric Reliability Corporation (NERC) Resources Subcommittee (RS) was held on April 30–May 1, 2008 in Washington, D.C. The meeting announcement, agenda, and attendance list are attached as **Exhibits A, B, and C**, respectively. Individual statements and minority opinions are affixed as **Exhibits D and E**. There were none.

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

Antitrust Compliance Guidelines

Secretary Vandervort acknowledged the NERC Antitrust Compliance Guidelines.

January 30–31, 2008 RS Meeting Minutes

The subcommittee approved the January 30–31, 2008 Resources Subcommittee minutes.

Working Group Reports

Frequency Working Group — Chair Raymond Vice

Chair Vice reported that he has started drafting a frequency disturbance analysis and frequency signature technical paper but it has not been shared outside of the Frequency Working Group (FWG).

The technical paper will be the basis for a procedure that contains a generic set of actions to be used to analyze events and disturbances in a consistent manner. Different types of analysis will be necessary for different types of disturbances or events with the consistency of using the same methodology each time. This technique is anticipated to give effective, efficient, and thorough conclusions and recommendations in an expeditious manner. Some of the key tools and software applications that the working group is familiar with, use on a regular basis, and will be used in future disturbance analysis are:

1. Resources adequacy application
2. Frequency monitoring and analysis application
3. Area Interchange Error application
4. North American SynchroPhasor Initiative tools
5. Virginia Tech Fnet software
6. Other software tools, applications, and monitoring programs

Secretary Vandervort acknowledged great work that the FWG and especially Sydney Niemeyer performed on the August 4, 2007 frequency event.

Inadvertent Interchange Working Group — Chair Don Badley

Chair Badley is working closely with the working group and CERTS Carlos Martinez to determine the best methodology to balance month-end inadvertent interchange values in the Eastern and Western Interconnections. Efforts the Inadvertent Interchange Working Group will undertake include:

1. The SPP Inadvertent Interchange Tool needs to be turned off
2. Identify the months in the NERC Inadvertent Interchange application that are locked
3. Balance all inadvertent interchange data prior to January 1, 2007
4. Establish the inadvertent interchange balanced carry-forward values on January 1, 2007
5. Review, evaluate, and resolve the inadvertent interchange mismatches and imbalances

Operating Reserves Working Group — Chair Larry Akens

Chair Akens reported that the Balancing Authority Control Standard Drafting Team will revise BAL-002, BAL-004, BAL-005, and BAL-006, which include operating reserves requirements. The standard drafting team has been formed and will meet in May 2008. For more details see the NERC Standards web site “Balancing Authority Control” related files.

August 4, 2007 Frequency Event Recommendations

Secretary Vandervort reported to the RS that the August 4, 2007 Reliability Analysis and Performance Analysis Team will propose to the NERC Operating Committee that three recommendations be given to the Resources Subcommittee to address and complete. Even though the recommendations are not finalized the draft versions are:

1. Work with NASPI and the Virginia Tech Fnet efforts to set up a process to automatically capture and objectively measure and track large load and generation losses.
2. Establish a centralized database to map the generation or load loss to the frequency events captured through NASPI and Fnet.
3. 2008 Summer Assessment, RS Assignment: RS will plan to analyze interconnection real-time balancing control performance and identify root causes in 2008.

The subcommittee should begin to contemplate methods to address the three recommendations in preparation for the official directive to address them from the Operating Committee.

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 either just beginning its tasks or has just been formed. Each standard drafting team is developing new or revised standard, and will post all the documents for industry comment. The goal for each standard drafting team is to make significant progress towards the next comment posting.

Frequency Response SDT — Bill Herbsleb

The Frequency Response Standard Drafting Team (FRSDT) is at a point that the FRSDT is trying to develop a process and white paper to: 1) frequency response data gathering; and 2) define a methodology to capture

frequency response from an event. The FRSDT white paper and draft standards will be posted at the same time, anticipated this summer.

Reliability-based Control SDT — Doug Hils

Doug Hils, Reliability-based Control Standard Drafting Team (RBCSDT) chair, gave a presentation on the field trials and draft standards. The SAR covered everything that the RBCSDT captured in the previous effort plus additional transmission activity that concerned NPCC, WECC, and FRCC regions. The RBCSDT is trying to get down to a core set of standards, a set of industry questions, and a technical paper to support the standards requirements, technical issues, and the RBCSDT philosophical justification for the BAAL standards. The intent is to get the industry involved and to stimulate the industry interest.

Balancing Authority Control SDT (BAL-002, 004, 005, 006 Revisions) — Larry Akens

The first meeting of the Balancing Authority Control Standard Drafting Team (RACSdT) is May 14, 2008. There is nothing to report.

Default Ramp Rate SAR — Larry Akens

The subject Default Ramp Rate SAR was initially presented to the NERC Interchange Subcommittee (IS). The IS determined that the SAR did not fall into its area of expertise and recommended that the SAR sponsor submit it to the Resources Subcommittee. As a courtesy, Larry Akens presented the Default Ramp Rate SAR to the RS and recapped the SAR by saying the SAR recommends a default ramp rate of 20 minutes. After discussions, the subcommittee determined that there was not enough support by the RS to endorse or to support the SAR. The RS will not take action on this SAR.

NAESB Time and Inadvertent Interchange Management Business Practice Standards Proposal — Terry Bilke

Chair Bilke informed the RS that the NAESB “Time and Inadvertent Interchange Management” business practice standards proposal is about to begin development. Mr. Bilke encouraged all RS members to participate in the NAESB business practice standard development because of the members expertise in the subject matter.

NERC Active Resources Subcommittee Applications

Resource Adequacy Application

The RS authorized the Consortium for Electric Reliability Technology Solutions (CERTS) to release to the electrical industry subscribers the Resources Adequacy application, version 5. The new version has jurisdictional changes, performance reports changes, “radar” monitoring displays, The new version will be released in May 2008.

Data Archiving Requirements

The Resources Subcommittee came to a tentative agreement on the data archiving requirements for the NERC Resources Adequacy application and the Frequency Monitoring and Analysis (FMA) applications. These requirements will be formalized and consensus will be reached tentatively in the next two weeks.

Inadvertent Interchange Application

CERTS staff has met with WECC staff to discuss a methodology to forward the WECC western interchange tool (WIT) interchange data to the NERC Inadvertent Interchange application and to the NERC AIE

application. The discussion went well and CERTS looks forward to an agreement between CERTS and WECC to develop an automated electronic data entry architecture from the WIT to the applications.

The RS consensus is that the Inadvertent Interchange application requires regional and possibly balancing authority intervention to resolve old inadvertent interchange balance concerns. For additional discussion, refer to the Inadvertent Interchange Working Group minutes.

AIE Monitoring Application

The RS called an area interchange error (AIE) survey in the Eastern Interconnection, for the hours of May 12, 2007, HE 0200 CDT, May 12, 2007, HE 0600 CDT, and June 17, 2007, HE 0600 CDT. The AIE survey data was submitted electronically utilizing the AIE Monitoring application. All Eastern Interconnection balancing authorities have entered their survey data for the three surveys requested. Chair Bilke and Mr. Martinez reported that the survey data needs to be reviewed and mismatches resolved before conclusions and recommendations can be made. Actions to support the AIE Monitoring application include:

- Designated members of the RS will review and evaluate the three requested AIE surveys
- AIE survey mismatches need to be addressed and resolved
- Draft and final reports will be forthcoming from the review team
- WECC will call an AIE Survey when an appropriate event occurs
- When the AIE Monitoring application is verified and validated (based on the AIE survey data), the application will be placed into production and it will be ready for the next AIE survey

Frequency Monitoring and Analysis Application

The RS authorized CERTS to send the Frequency Monitoring and Analysis (FMA) application to the entire subcommittee to begin field testing the application. The primary field test participants will be the Frequency Working Group, but comments from the rest of the RS are welcome. The field trial test objectives are:

1. Verify the application functionality is consistent with NERC-RS FMA Functional Specification version 1.8
2. Report your findings and variances to NERC RS and CERTS prior to May 31, 2008
3. Submit recommended changes to NERC RS and CERTS by May 31, 2008

Yugo Frequency Archiving

Mike Potishnak gave a presentation on the Yugo Interim Frequency Archiving Program and its associated Yugo user's manual. The Yugo is composed of three separate EXCEL spreadsheets and are deliberately decoupled from each other for flexibility in usage. The first spreadsheet, called "frequency archive data collector v0" collects one day of one minute average values of frequency and scheduled frequency. The second spreadsheet, called "Daily frequency data analyzer for archiving v0," receives exactly 1,440 samples of data from previously mentioned spreadsheet, and performs data quality checking and places each one minute sample into one of 42 tuneable sized bins (e.g., 60.005 to 60.010 Hz). The third spreadsheet supports accumulation of a month's worth of analyzed daily data to develop an aggregate monthly frequency performance and is called "Monthly frequency summary for archiving v0." The process allows the users to customize their own comparison of frequency performance among months or other time intervals.

Anyone that is interested in reviewing, testing or using Mr. Potishnak's Yugo Interim Frequency Archiving Program, should contact Mr. Potishnak (see RS meeting agenda section 1 for contact information).

DOE North American SynchroPhasor Initiative (NASPI)

The NASPI program was not discussed during this meeting. Since the RS believes it will play a significant role in the future within the bulk power system in North America, the links below are included in these minutes. Additional information can be found on following Web sites:

<http://www.naspi.org/>

<http://www.powerit.vt.edu/Fnet.htm>

Event Analysis Process and Catalogue of Event Analysis Tools

The subcommittee began the discussion by looking at the various disturbance event analytical applications and monitoring tools that are available and accessible to the subcommittee, see agenda item 5.h. The discussion progressed to a discussion on the need to develop a procedure or process to consistently analyze an event from the initial event notification to the conclusion phase. As a result of this discussion and general consensus by the subcommittee for the need for such a procedure, Raymond Vice and the Frequency Working Group will write a white paper on how to analyze a disturbance. The white paper will lead to a guide or procedure that can be used to analyze a disturbance or an event by following the respective step-by-step analytical procedure, using the available event analytical applications and monitoring tools, communicating with the correct individuals, and attaining expert technical assistance from the industry, academia, vendors, and from other expert contributors and sources.

Frequency Archiving/Frequency Repository

Mike Potishnak recommended to the RS that it consider sponsoring a frequency data repository or a frequency data archive. Mr. Potishnak emphasized the importance of storing and archiving frequency data for historical purposes and for analysis purposes. Mr. Martinez and CERTS staff will look at the feasibility of creating a frequency repository associated with the Frequency Monitoring and Analysis application.

NERC Operating Committee Directives to the Resources Subcommittee Reliability Concepts Document

The NERC Operating Committee asked the RS to write a comprehensive chapter on load-generation balancing. Chair Bilke drafted a "Balancing" chapter for the Reliability Concepts document. The outline will be divided into sections that the applicable RS working groups will address and write the concepts details, descriptions, supporting language, and provide necessary calculations and illustrations.

Time Error Monitoring

The subcommittee reported the following time error monitoring statistics:

2008, 1st Quarter Interconnection Time Error Totals			
	Fast Time Error Corrections	Slow Time Error Corrections	Total Time Error Corrections
Eastern Interconnection	?	?	?
Western Interconnection	9	13	22
ERCOT	11	4	15
Hydro Québec	-----	-----	-----

Performance Monitoring

CPS1 Review

The Resources Subcommittee members will be requested to sign a NERC Confidentiality Agreement prior to being allowed to review and discuss the monthly and 12-month rolling average CPS1 reports.

The NERC compliance program determines CPS1 violations, penalties, and monitors corrective actions. The RS reviews the CPS1 report for performance analysis purposes. The subcommittee reviews the data to identify generic problems, inform subcommittee regional representatives when balancing authorities' scores are close to violation, and to assess why balancing authorities have scores below or near the acceptable 100% score.

CPS2 Review

The Resources Subcommittee members will be requested to sign a NERC Confidentiality Agreement prior to being allowed to review and discuss the monthly and 12-month rolling average CPS2 reports.

The NERC compliance program determines CPS2 violations, penalties, and monitors corrective actions. The Resources Subcommittee reviews the CPS2 report for performance analysis purposes. The subcommittee reviews the data to identify generic problems, inform subcommittee regional representatives when balancing authorities' scores are close to violation, and to assess why balancing authorities have scores below or near the acceptable 90% score.

Resources Subcommittee Action Item List

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

Dates and Locations of Future Meetings

Wednesday, July 30, 2008	8 a.m.–5 p.m.	Victoria, BC
Thursday, July 31, 2008	8 a.m.– noon	
Tuesday, October 28, 2008	8 a.m.–5 p.m.	San Antonio, TX
Wednesday, October 29, 2008	8 a.m.– noon	
Wednesday, January 28, 2009	8 a.m. – 5 p.m.	San Diego, CA Alt: New Orleans, LA
Thursday, January 29, 2009	8 a.m. – noon	

Wednesday, April 29, 2009	8 a.m. – 5 p.m.	Charleston, SC
Thursday, April 30, 2009	8 a.m. – noon	Alt: Tulsa, OK
Wednesday, July 29, 2009	8 a.m. – 5 p.m.	Jackson Hole, WY
Thursday, July 30, 2009	8 a.m. – noon	Alt: Portland, ME
Wednesday, October 28, 2009	8 a.m. – 5 p.m.	Phoenix, AZ
Thursday, October 28, 2009	8 a.m. – noon	Alt: Atlanta, GA

Respectfully submitted,

Tom Vandervort

Thomas J. Vandervort
Resources Subcommittee Secretary

Angie Nicastro

From: Angie Nicastro
Sent: Friday, February 15, 2008 4:35 PM
To: Angie Nicastro
Subject: MEETING: April 2008 Resources Subcommittee
Attachments: NERC Resources Subcommittee.vcs

Exhibit A

Meeting Announcement: Resources Subcommittee

April 30-May 1, 2008 | Washington, DC

Register online today: <http://www.nerc.net/meetingregistrations/Committee.aspx?meetingdate=4/30/2008&meetingtype=RS>

Meeting Group and Dates	
Group Name	Resources Subcommittee
Dates	4/30/2008 -- 8:00 AM to 5:00 PM 5/1/2008 -- 8:00 AM to 12:00 PM
Hotel	
Hotel	Four Point by Sheraton
Address	1201 K Street, NW
City	Washington
State	DC 20005
Phone	202-349-2205
Cut Off Date	4/7/2008
Attending Staff	
Staff	Tom Vandervort
Miscellaneous	
Notes	<p>PLEASE CALL THE HOTEL DIRECTLY TO BOOK RESERVATIONS</p> <p>Hotel Location- map</p> <ul style="list-style-type: none"> • Room rate: \$265 single/double occupancy • Room block: Nights of April 29-30, 2008 - There are a limited amount of rooms are available. • Check-in: 4 p.m., Check-out: noon • Hotel cut-off date: April 7, 2008. NOTE: After the cut-off date the hotel will release this block of rooms and only accept reservations on a space-available basis at the prevailing room rate. • Dress code: Business casual

When making your hotel reservation, please be sure to mention the "NERC" to get the preferred rate and ensure your reservation is credited to the NERC room block. The hotel will charge NERC a penalty if the total rooms blocked for this event are not picked up. Also, if you use a travel agency for your travel plans, please make sure the agency mentions NERC. For more information or assistance, please contact Angie Nicastro, Administrative Assistant, at angie.nicastro@nerc.net or at (609) 452-8060.

Attached please find an outlook meeting invitation. If you would like to add it to your schedule, just double click on the attachment, select "Open" from the pop up screen, and then hit the "Save & Close" button at the upper left hand of the meeting screen to add to your calendar.

Angie Nicastro
 Administrative Assistant
 North American Electric Reliability Corporation

5/5/2008

116-390 Village Blvd.
Princeton, NJ 08540
609.452.8060 | www.nerc.com

Agenda Resources Subcommittee

April 30, 2008 | 8 a.m.–5 p.m.
May 1, 2008 | 8 a.m.–noon
Four Points by Sheraton Washington D.C. Downtown
1201 K Street, N.W.
Washington, DC 20005
202-289-7600

1. **Administrative**

- a. Membership and Guests — Chair
- b. Arrangements — Secretary
- c. Approval of Meeting Minutes
 - i) January 30–31, 2008 — Chair
- d. Procedures
 - i) Parliamentary Procedures — Chair
 - ii) Antitrust Compliance Guidelines — Secretary
- e. Resources Subcommittee Action Items List (review prior to the meeting) — Chair

2. **Working Group Reports**

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

- a. Control Criteria Work Group — to be determined
- b. Frequency Work Group — Raymond Vice
- c. Inadvertent Interchange Work Group — Don Badley
- d. Operating Reserves Work Group — Larry Akens

3. **Frequency Analysis**

- a. Disturbance Analysis and Frequency Signature — Raymond Vice

4. **NERC Reliability Standards**

- a. Frequency Response SDT — Bill Herbsleb
- b. Reliability-based Control SDT — Doug Hils, Raymond Vice
- c. Balancing Authority Control SDT (BAL-002, 004, 005, 006 Revision) — Larry Akens
- d. Default Ramp Rate SAR — Larry Akens
- e. Performance Standards Reference Document — to be determined

5. Active RS NERC-CERTS Applications

- a. Resources Adequacy (ACE-Frequency) Application System — Carlos Martinez, Terry Bilke
- b. Intelligent Alarms — Carlos Martinez, Terry Bilke
- c. AIE Monitoring Application (Project 2000-4) — Carlos Martinez, Don Badley
- d. CPS1 & BAAL Monitoring Application (Project 2001-38) — Carlos Martinez, Doug Hils, Raymond Vice
- e. Frequency Monitoring and Analysis Application (Project 2005-6) — Carlos Martinez, Raymond Vice, Terry Bilke
- f. Inadvertent Interchange Application (Project 2001-37) — Carlos Martinez, Don Badley
- g. DOE North American Synchronous Phasor Initiative (NASPI) — Terry Bilke, Carlos Martinez

6. Frequency and Control Performance

- a. Western Interconnection Frequency Trends and Events — Bart McManus
- b. Eastern Interconnection Frequency Trends and Events — Raymond Vice
- c. ERCOT Interconnection Frequency Trends and Events — Sydney Neimeyer
- 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 Balances — Don Badley
- h. AIE Survey — Terry Bilke, Don Badley, Raymond Vice, Carlos Martinez
- i. Frequency Archiving — Mike Potishnak

7. Time Error

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

8. NERC Operating Committee Directives to the Resources Subcommittee

- a. Reliability Concepts Document — Terry Bilke
- b. Draft Process for Development of Reliability Tools — Terry Bilke

9. Future Meetings

- a. July 30–31, 2008 (Victoria, BC)
- b. October 29–30, 2008 (San Antonio; Alternate Location: Albuquerque)
- c. January 28–29, 2009 (New Orleans; Alternate Location: San Diego, or Ft. Lauderdale)
- d. April 29–30, 2009 (Charleston, SC; Alternate Location: Tulsa)
- e. July 29–30, 2009 (To be determined)
- f. October 28–29, 2009 (To be determined)

Attendance List
 Resources Subcommittee Meeting
 April 30–May 1, 2008

Participant	Segment or Organization
Terry Bilke, Chair	Midwest ISO
Don Badley, Vice Chair	NWPP
Sydney Niemeyer	ERCOT
Michael Potishnak	NPCC
Bill Herbsleb	RFC
Jon Swez	RFC
Larry Akens	SERC
Gerry Beckerle	SERC
Raymond Vice	SERC
Robert Rhodes	SPP
Jamie Murphy	WECC (proxy for Bart McManus)
John Tolo	WECC
Tom Vandervort	NERC
Carlos Martinez	CERTS
Mahmood Mierheydar	FERC
Tom Siegrist	EnerVision for Nucor
Doug Hils	DEH
Mark Prosperi-Porta	NWPP
Bob Cummings	NERC

**Individual Statements
Resources Subcommittee Meeting
April 30-May 1, 2008**

There were none.

**Minority Opinions
Resources Subcommittee Meeting
April 3-May 1, 2008**

There were none.



**Resources Subcommittee
April 30–May 1, 2008 Meeting
Open Action Item List**

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
Terry Bilke and Resources Subcommittee	Load-Generation Balancing Chapter for the OC Reliability Concepts Open Source Document	<p>013108, NERC Operating Committee Chair, Gayle Mayo asked the RS to write a comprehensive Reliability Concepts Document chapter on load-generation balancing. The chapter must state what must be done to ensure balance.</p> <p>In conjunction with the OC request, Don Benjamin requests the RS to contribute chapters to the OC Reliability Concepts Document – Balance Resources and Demand, Frequency Trends, Frequency Profile, Time Error Correction, ACE, Bias, Inadvertent Interchange, AIE, etc.</p> <p>The RS is asked to circulate their draft technical papers as an initial start to this project</p> <p>050108, Terry started an outline of the Reliability Concepts “Balance” Chapter. Terry asked each Working Group is to further develop their respective sections.</p>	073008	
Terry Bilke and Resources Subcommittee	Frequency Event Repository	<p>013108, The RS requests a frequency event repository be initiated. Possibly visit with CERTS, NASPI, VTech, Bill Herbsleb/PJM, Sydney mentioned the August 4 event appendix that may be relevant to this effort, etc., to determine what frequency retention is already taking place.</p> <p>050108, Mike Potishnak has developed an interim “Yugo” frequency repository. Carlos may have the solution to the frequency repository request with the FMA application. The RS needs to understand the FMA capabilities further.</p>	073008	
Terry Bilke	Control Criteria Working Group	<p>013008, With the departure of Alan Oneal from the RS, a new Control Criteria Working Group Chair needs to be designated. Or, the CCWG may need to be retired.</p>	073008	
Raymond Vice and	Disturbance Analysis Procedure	<p>013108, After a discussion on consolidating the various industry tools used to monitor and analyze disturbances, Raymond Vice volunteered the Frequency Work</p>	073008	

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
Frequency Work Group		<p>Group to write a white paper on how to analyze a disturbance. The goal is to write a generic set of actions that can be used to analyze events and disturbances in a consistent manner.</p> <p>050108, Raymond, Tom, and Bob Cummings to get together to determine what Bob needs.</p> <p>050108, Raymond and the FWG to work on the Disturbance Analysis and Frequency Signature technical paper.</p>		
Raymond Vice, Tom Vandervort and Bob Cummings	Disturbance Procedure	050108, Raymond, Tom, and Bob Cummings to get together to determine what Bob needs and what the RS charged Raymond and the FWG to incorporate into the Reliability Concepts Doc.	073008	
Raymond Vice and Frequency Work Group	Load-Generation Balancing Chapter for the OC Reliability Concepts Open Source Document	050108, Raymond and the FWG to work on the respective sections of Terry's Reliability Concepts "Balancing" Chapter.	061408	
Don Badley and Inadvertent Interchange Work Group	Inadvertent Interchange Balances	<p>013108, Don and the Inadvertent Interchange Work Group are working with Joe Emde, Chris Scheetz, Bill Herbsleb, CERTS, and others, to address and resolve the inadvertent interchange data discrepancies for 2006, 2007, and 2008.</p> <p>013108, HIGH PRIORITY</p> <p>Coordinated effort is necessary to attain and incorporate the proper 2006 and 2007 carry-forward inadvertent interchange data.</p> <p>RS members that have BAs that have not input data into the Nov and Dec, 2006 NERC Inadvertent Interchange application, need to actively contact and engage those BAs to bring their accounts up to date.</p> <p>050108, Don Badley to work with Carlos to aggressively bring all BAs up to date and balance their inadvertent interchange values through January 1, 2007 (the line in the sand – balances going forward).</p>	060108	
Don Badley and Inadvertent Interchange Work Group	Inadvertent Interchange Balances	<p>050108, Don, IIWG, and CERTS to bring the Inadvertent Interchange balances up-to-date. Aggressively seek the inadvertent interchange data and populate the NERC II application. This is especially significant to the Eastern Interconnection, the Western Interconnection is balanced through March, 2008.</p> <p>With this initiative:</p>	073008	

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
		<ol style="list-style-type: none"> 1. The SPP Inadvertent Tool needs to be turned off 2. The RS needs to define which NERC II Applications months are locked 3. Balance through January 1, 2008 (the line in the sand – balances going forward) 4. Define the net of the carry-forward on January 1, 2007. Is it balanced? 5. Track down and identify the mismatches and imbalances 		
Don Badley and Inadvertent Interchange Work Group	Load-Generation Balancing Chapter for the OC Reliability Concepts Open Source Document	050108, Don and the IIWG to work on the respective sections of Terry's Reliability Concepts "Balancing" Chapter.	061408	
Larry Akens and Operating Reserves Work Group	Load-Generation Balancing Chapter for the OC Reliability Concepts Open Source Document	050108, Larry and the ORWG to work on the respective sections of Terry's Reliability Concepts "Balancing" Chapter.	061408	
CCWG Chair and Control Criteria Work Group	Rewrite Performance Standards Reference Document	013108, Contact each open BAL-related standard drafting team to request that they write or plan to write a module for each SDT specific requirement and how to achieve technical results for the PSRD.	043008	
Don Badley and Inadvertent WG	AIE Field Test and initial AIE Survey	013108, In progress - evaluate the AIE Field Test and the automated electronic initial AIE Survey (May 12, 2007, HE 0200 CDT; May 12, 2007, HE 0600 CDT; and June 17, 2007, HE 0600 CDT).	043008	
Tom Vandervort	NERC – Compliance-RS Confidentiality Agreement	<p>013108, Tom V to follow up with NERC Compliance and legal counsel to develop a NERC RS NDA to review and analyze control performance data and to include the ability to convey the RS analysis with affected BAs in their respective footprint.</p> <p>041508, NERC Confidentiality Agreement for Operating Reliability Data (ORD) for the RS was given to NERC legal council for review and editing. Compliance Dept. and Tom V are satisfied with the confidentiality agreement and are awaiting council's edits and approval.</p>	043008	
	NERC-CERTS			

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
	Project Review			
Terry Bilke	Resources Adequacy Application Review Team	<p>021007, Resources Adequacy Application (NERC Project 2000-03) – A small Resources Subcommittee team will review the issues and address the project parameters. The goal is to recommend expectations, priorities, uses, methodologies, specifications, timelines, and results. Collaboration with ORS, RCWG, NERC Projects, NERC Training Dept, NERC IT, etc. to be initiated as necessary.</p> <p>Project Review Team: Leader-Terry Bilke, Raymond Vice, Sydney Niemeyer, Robert Rhodes, Bill Herbsleb, John Tolo, Bart McManus, Tom Vandervort</p> <p>Group recommendations are to be shared with RS, CERTS and NERC Projects.</p> <p>RS to review the data quality reports – are they appropriate or do they need to be modified.</p> <p>RS recommends setting the frequency response at 3,000 MW/0.1 Hz</p> <p>043008, Team available for consultation or action</p>	073008	
Terry Bilke	Develop Resources Adequacy Application Training Documents	<p>021007, Resources Adequacy Application (NERC Project 2000-03) – A small Resources Subcommittee team will review the issues and address the project parameters. The goal is to recommend training lessons content, on-line help application, user friendly training tools. Collaboration with ORS, RCWG, NERC Projects, NERC Training Dept, etc. to be initiated as necessary.</p> <p>Project Review Team: Leader-Terry Bilke, Robert Rhodes, Tom Vandervort</p> <p>Group recommendations are to be shared with RS, CERTS, and NERC Projects.</p> <p>Training – there are a lot of functions that are not easy to know what to do. RCs want additional training.</p> <ul style="list-style-type: none"> • Training sites include NE, SE, and one in the west; • another option is to “train the trainer;” • another option is to have a WebEx session. <p>043008, Team available for consultation or action</p>	073008	
Don Badley	AIE Monitoring Application Review	<p>021007, AIE Monitoring Application (NERC Project 2000-04) – A small Resources Subcommittee team will review the issues and address the project parameters. The goal is to recommend expectations, priorities, uses, methodologies, specifications, timelines, and results. Collaboration with ORS, RCWG, NERC Projects, NERC Training Dept, NERC IT, etc. to be initiated as necessary.</p> <p>Project Review Team: Leader-Don Badley, Raymond Vice, Bart McManus, John</p>	073008	

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
		<p>Tolo, Terry Bilke, Don McInnis, Mike Potishnak, Tom Vandervort, Brian Nolan</p> <p>Group recommendations are to be shared with RS, CERTS, and NERC Projects.</p> <p>The following individuals signed the WECC confidentiality agreement and were approved to receive WECC data to support the AIE Monitoring Application development:</p> <ul style="list-style-type: none"> Don Badley, Team Leader Raymond Vice Bart McManus John Tolo Terry Bilke Don McInnis Mike Potishnak Tom Vandervort Brian Nolan <p>043008, Team available for consultation or action</p>		
Don Badley	Inadvertent Interchange Application Review	<p>021007, Inadvertent Interchange Application (NERC Project 2001-37) – A small Resources Subcommittee team will review the issues and address the project parameters. The goal is to recommend expectations, priorities, uses, methodologies, specifications, timelines, and results. Collaboration with ORS, RCWG, NERC Projects, NERC Training Dept, NERC IT, etc. to be initiated as necessary.</p> <p>Project Review Team: Leader-Don Badley, Inadvertent Task Force, someone from Southwest Power Pool (Robert Rhodes will be the point of contact to identify who this person will be), Tom Vandervort</p> <p>Group recommendations are to be shared with RS, CERTS, and NERC Projects.</p> <p>In progress. Don will recommend additional monthly interconnection inadvertent interchange reporting to Carlos</p> <p>TV to work with Joe Emde to generate monthly inadvertent interchange accounting reports.</p> <p>043008, Team available for consultation or action</p>	073008	
Raymond Vice	CPS1 & BAAL Monitoring Application Review	<p>021007, CPS1 & BAAL Monitoring Application (NERC Project 2001-38) – A small Resources Subcommittee team will review the issues and address the project parameters. The goal is to recommend expectations, priorities, uses, methodologies, specifications, timelines, and results. Collaboration with ORS, RCWG, NERC Projects, NERC Training Dept, NERC IT, etc. to be initiated as necessary.</p>	073008	

Action Figure	Subject	Action Item/Assignment	Due Date	Completion Date
		<p>Project Review Team: Leader-Raymond Vice, Doug Hills, Mark Henry, Sydney Niemeyer, Don Badley, John Tolo, Bart McManus, Tom Vandervort</p> <p>Group recommendations are to be shared with RS, CERTS, and NERC Projects.</p> <p>043008, Team available for consultation or action</p>		
Raymond Vice	Frequency Monitoring and Analysis (FMA) System Project Review	<p>021007, Frequency Monitoring and Analysis (FMA) System Project (NERC Project 2005-06) – A small Resources Subcommittee team will review the issues and address the project parameters. The goal is to recommend expectations, priorities, uses, methodologies, specifications, timelines, and results. Collaboration with ORS, RCWG, NERC Projects, NERC Training Dept, NERC IT, etc. to be initiated as necessary.</p> <p>Project Review Team: Leader-Raymond Vice, Frequency Task Force, Tom Vandervort</p> <p>Group recommendations are to be shared with RS, CERTS, and NERC Projects.</p> <p>043008, Team available for consultation or action</p>	073008	
Brian Nolan	Incorporate ERCOT into ACE-Freq App	<p>092106, Brian Nolan to incorporate the necessary technology to allow ERCOT to send data to the ACE-Frequency monitoring application. Brian will report the progress of this activity to the RS at the January, 2007 meeting.</p> <p>013007, Brian Nolan, the project is waiting on Verizon line drops – In progress.</p>	073008	
Carlos Martinez	CERTS-NERC Contact Person	<p>102307, Carlos needs an individual within NERC that is designated to interface and be the point of contact for each application to support the product and promote its reliability and availability.</p> <p>040108, Tom V is designated as the NERC-CERTS contact person.</p>	043108	040108