

# Meeting Notes

## Project 2007-12 Frequency Response

January 18, 2012 | 8:00 a.m. to 5:00 p.m. ET

January 19, 2012 | 8:00 a.m. to 5:00 p.m. ET

January 20, 2012 | 8:00 a.m. to Noon ET

NRG Offices  
Houston, TX

### Administrative

#### 1. Introductions and chair's remarks

David Lemmons opened the meeting and thanked everyone for attending.

#### 2. Attendance

Name	Entity	In-person/Via Conference Call
Don Badley	NWPP	In-person
Gerry Beckerle	Ameren	In-person
Terry Bilke	MISO	In-person
Troy Blalock	SCANA	Conference Call
Robert Blohm	Consultant	Conference Call
Neil Burbure	FERC	In-person
Bob Cummings	NERC	In-person
Howard Illian	Energy Mark	Conference Call
David Lemmons	Xcel Energy	In-person
Carlos Martinez	CERTS	In-person
Sydney Niemeyer	NRG	In-person
Mike Potishnak	ISO NE	In-person
Darrel Richardson	NERC	In-person
Sandip Sharma	ERCOT	In-person
Tom Washburn	OUC	Conference Call

### 3. Participants were read the NERC Antitrust Compliance Guidelines and public announcement

#### Agenda Items

##### 1. Review agenda

Mr. Lemmons reviewed the agenda. No changes were made.

##### 2. Standard development

- a. The Standard Drafting Team (SDT) reviewed the “Discussion of the Preliminary Choice of the Median” paper prepared by Howard Illian and Mike Potishnak. The team thanked Mr. Illian and Mr. Potishnak for the work they provided. The SDT agreed with the paper and asked that some minor modifications be made.
- b. The SDT reviewed and discussed the use of Variable Bias issue. Sydney Niemeyer stated that using Variable Bias benefitted both the Balancing Authority (BA) and the Interconnection. Mr. Niemeyer will provide language for the requirement to be inserted in the proposed standard.
- c. The SDT reviewed and discussed the BA/Generator issue. The team felt that there was really nothing they could do to completely resolve the issue within the time frame allotted. They agreed on a response to be inserted into the comment report.
- d. The SDT reviewed and proposed changes to the Background Document to align with the modifications to the proposed standard and attachments. The team also made minor changes to the document to provide further clarity.
- e. The SDT modified Attachment A to reflect changes suggested from the industry comment period. The team discussed the methodology proposed to calculate the BA Frequency Response Obligation. The attachment will be modified to reflect the information located within the Background Document that further defines the variable used in the calculation. The SDT also made minor modifications based on industry feedback from the comment period.
- f. The SDT modified Attachment B to reflect suggest modifications from the industry during the comment period. These changes include:
  - i. Added language to reflect the use of variable Frequency Bias.
  - ii. Removed the “minimum Frequency Bias Setting” from ERCOT and Hydro Quebec. The SDT felt that these BAs were solely responsible for providing reliable frequency control of their Interconnection. These BAs are responsible for converting frequency error into a megawatt error to provide reliable frequency control. The imposition of a minimum bias setting may have the potential to cause control system hunting and instability in the extreme.

- iii. Revised the language detailing the process for determining whether the Electric Reliability Organization should lower the minimum Frequency Bias Setting to provide additional clarity.
  - g. The SDT made the following modifications to the proposed standard:
    - i. Modified the definition for Frequency Response Measure to no longer reference a form to be used. Language was added to Attachment A and the Background Document to require the use of the forms (Frequency Response Standard (FRS) Form 1 and FRS Form 2).
    - ii. Created a definition for Frequency Response Sharing Group. The SDT agreed with the industry that using the term Reserve Sharing Group created confusion with other standards.
    - iii. Modified Requirement R1 to provide additional clarity.
    - iv. Modified Requirement R2 to allow for an implementation period and provide additional clarity.
    - v. Removed Requirement R3 (use of Tie Line Bias mode). The SDT felt that this was duplicative of requirement in BAL-005-0.1b Requirements R6 and R7.
    - vi. Created a requirement for entities choosing to use Variable Frequency Bias.
    - vii. Modified the measures and VSLs to align with the proposed modifications to the requirements.
  - h. Due to time constraints the review of the responses to comments will be done via e-mail and if necessary will be discussed on a conference call.
  - i. Robert Blohm disagreed with the use of a Reserve Sharing Group (RSG) for complying with the proposed Requirement R1. Mr. Blohm felt that using an RSG could give a competitive advantage and create the possibility of collusion. The SDT disagreed with Robert and voted to keep the RSG as a possible method for compliance. Mr. Blohm felt that his objection should be posted with the documents for industry review. The team again disagreed and felt that his objection should be added to the meeting notes and posted on the NERC website. Mr. Blohm disagreed and invoked the Antitrust Compliance Guidelines. The meeting was stopped until this could be addressed by either NERC management or NERC legal. Andy Rodriguez (Director of Standards Development) was notified and called into the meeting. Mr. Rodriguez informed everyone that somebody from NERC legal would be in touch shortly. Andrew Dressel (NERC legal) dialed into the meeting to discuss the issue. He found that there was not an Antitrust issue involved and informed the group of this.
- 3. Next steps – the following assignments were made:**
- a. Mr. Illian will combine the description of Primary Frequency Response (provided by Gerry Beckerle) with the paper developed by himself and Mr. Potishnak describing the reason for selecting the median and the proper measure into the Background Documents.

- b. Carlos Martinez will provide an updated graph reflecting a generator trip for Mr. Illian to include in the Background Document.
  - c. Darrel Richardson will “clean up” all the documents and send them to the SDT for review prior to sending them in for Quality Review.
4. **Future meeting(s)/conference call(s)**
- a. February 6, 2012 – Conference call
  - b. February 8, 2012 – Conference call
  - c. February 10, 2012 – Conference call
  - d. March 20-22, 2012 – To be determined
  - e. March 28-30, 2012 – To be determined
5. **Adjourn**