Unofficial Comment Form

Project 2010-14.1 Balancing Authority Reliability-based Control

BAL-001-2 − Real Power Balancing Control Performance

Please **do not** use this form to submit comments on the proposed revisions to BAL-001-2 Real Power Balancing Control Performance. Comments must be submitted on the [electronic comment form](https://www.nerc.net/nercsurvey/Survey.aspx?s=0bcdffa6dd3644afb1a7d0f7b3f48d4c) by 8 p.m. ET on **April 25, 2013**.

If you have questions please contact [Darrel Richardson](mailto:darrel.richardson@nerc.net) (via email) or by telephone at (609) 613-1848.

### Background Information:

Control Performance Standard 1 (CPS1) has been retained, and details for calculating CPS1 are included in Attachment 1. Calculation of Reporting Area Control Error (Reporting ACE) has been clarified, and details for calculating Reporting ACE are also included in Attachment 1. The Balancing Authority ACE Limit (BAAL), an interconnection frequency and Balancing Authority ACE measurement, is included in this standard as Requirement 2 and replaces Control Performance Standard 2 (CPS2). Details for the calculation of BAAL are included in Attachment 2.

CPS2 was not designed to address Interconnection frequency. Currently, it measures the ability of a Balancing Authority to maintain its average ACE within a fixed limit of plus or minus a MW value called L10. To be compliant, a Balancing Authority must demonstrate its average ACE value during a consecutive ten minute period was within the L10 bound 90 percent of all 10 minute periods over a one month period. While this standard does require the Balancing Authority to correct its ACE to not exceed specific bounds, it fails to recognize Interconnection frequency.

BAAL is defined by two equations, BAAL low and BAAL high. BAAL low is for Interconnection frequency values less than 60 hertz and BAAL high is for Interconnection frequency values greater than 60 hertz. BAAL values for each Balancing Authority are dynamic and change as Interconnection frequency changes. For example, as Interconnection frequency moves from 60 hertz, the ACE limit for each Balancing Authority becomes more restrictive. The BAAL provides each Balancing Authority a dynamic ACE limit that is a function of Interconnection frequency.

As a proof of concept for the proposed BAAL standard, a BAAL field trial was approved by the NERC Standards Committee and the Operating Committee. Currently there are 13 Balancing Authorities participating in the Eastern Interconnection, 26 Balancing Authorities participating in the Western Interconnection, the ERCOT Balancing Authority, and Quebec. Reliability Coordinators for all interconnections continue to monitor the performance of those participating Balancing Authorities and provide information to support monthly analysis of the BAAL field trial. As of the end of September 2011, no reliability issues with the BAAL field trial have been identified by any Reliability Coordinator.

**Questions**  
You do not have to answer all questions.  Enter all comments in plain text format.  Bullets, numbers, and special formatting will not be retained. Insert a “check” mark in the appropriate boxes by double-clicking the gray areas.

1. **The BARC SDT has developed two new terms to be used with this standard.**

*Regulation Reserve Sharing Group*

A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply the regulating reserve required for all member Balancing Authorities to use in meeting applicable regulating standards.

*Regulation Reserve Sharing Group Reporting ACE*

At any given time of measurement for the applicable Regulation Reserve Sharing Group, the algebraic sum of the Reporting ACEs (as calculated at such time of measurement) of the Balancing Authorities participating in the Regulation Reserve Sharing Group at the time of measurement.

**Do you agree with the proposed definitions in this standard? If not, please explain in the comment area below.**

Yes

No

Comments:

1. **If you are not in support of this draft standard, what modifications do you believe need to be made in order for you to support the standard? Please list the issues and your proposed solution to them.**

Comments:

1. **If you have any other comments on BAL-001-2 that you haven’t already mentioned above, please provide them here:**

Comments: