

Brief Description of New Standard or Revision to Existing Standard

The Load-Resource Balance Standard requires that each Balancing Authority maintain a close match between its loads and resources in real time. The Standard accomplishes this through four measures that cover various time frames and situations:

1. Frequency Response Measure (FRM) - FRM arrests short-term (0-1 minute) frequency deviation following a sudden mismatch between generation and load. Adherence to the FRM ensures there are sufficient frequency responsive resources that quickly (within seconds) stabilize Interconnection frequency whenever load or generation changes rapidly before operator actions. (Note that FRM does not return the Interconnection to its scheduled frequency, only arrest the frequency change.)
2. Control Performance Measure 1 (CPM1) - CPM1 maintains the short-term (1-minute) Interconnection's frequency error within a statistical bound of historical frequency performance.
3. Control Performance Measure 2 (CPM2) -CPM2 maintains the longer-term (10-minute) Interconnection's frequency error within a statistical bound of historical frequency performance. Compliance with CPM2 helps minimize unscheduled power flows that can cause transmission operating limit violations.
4. Disturbance Control Measure (DCM) -DCM ensures that the Interconnection returns to its scheduled frequency within a defined period following a sudden generation or load change (a "disturbance.") This measure requires the responsible Balancing Authority to quickly return its Area Control Error to an acceptable level.

Procedural Requirements:

Each Balancing Authority shall operate an Automatic Generation Control (AGC) system and calculate an area control error (ACE) value (See Standard Technical Reference document). Each Balancing Authority shall maintain its ACE within specific limits as defined by four measures.

1. FRM
2. CPM1
3. CPM2
4. DCM

<i>The Standard will Apply to the Following Functions</i> (Check all that apply)		
<input type="checkbox"/>	Reliability Authority	Ensures the reliability of the bulk transmission system within its Security Authority Area. This is the highest reliability authority.
<input checked="" type="checkbox"/>	Balancing Authority	Integrates resource plans ahead of time, and maintains load-interchange-resource balance within its metered boundary and supports system frequency in real time
<input type="checkbox"/>	Interchange Authority	Authorizes valid and balanced Interchange Schedules
<input type="checkbox"/>	Planning Authority	Plans the bulk electric system
<input type="checkbox"/>	Transmission Service Provider	Provides transmission services to qualified market participants under applicable transmission service agreements
<input type="checkbox"/>	Transmission Owner	Owens transmission facilities
<input type="checkbox"/>	Transmission Operator	Operates and maintains the transmission facilities, and executes switching orders
<input type="checkbox"/>	Distribution Provider	Provides and operates the “wires” between the transmission system and the customer
<input type="checkbox"/>	Generator	Owens and operates generation unit(s) or runs a market for generation products that performs the functions of supplying energy and Interconnected Operations Services
<input type="checkbox"/>	Purchasing-Selling Entity	The function of purchasing or selling energy, capacity and all necessary Interconnected Operations Services as required.
<input type="checkbox"/>	Load-Serving Entity	Secures energy and transmission (and related generation services) to serve the end user

Reliability and Market Interface Principles (complete for new or revised Organization Standards)	
Applicable Reliability Principles (check all that apply)	
1. Interconnected bulk electric systems shall be planned and operated in a coordinated manner to perform reliably under normal and abnormal conditions.	<input checked="" type="checkbox"/>
2. The frequency of interconnected bulk electric systems shall be controlled within defined limits through the balancing of electric supply and demand	<input checked="" type="checkbox"/>
3. Information necessary for planning and operation of interconnected bulk electric systems shall be made available to those entities responsible for planning and operating the systems reliably	<input type="checkbox"/>
4. Plans for emergency operation and system restoration of interconnected bulk electric systems shall be developed, coordinated, maintained and implemented	<input type="checkbox"/>
5. Facilities for communication, monitoring and control shall be provided, used and maintained for the reliability of interconnected bulk electric systems	<input type="checkbox"/>
6. Personnel responsible for planning and operating interconnected bulk electric systems shall be trained, qualified and have the responsibility and authority to implement actions	<input type="checkbox"/>
7. The security of the interconnected bulk electric systems shall be assessed, monitored and maintained on a wide area basis	<input type="checkbox"/>
The proposed Standard must comply with all of the following Market Interface Principles	<input checked="" type="checkbox"/>
Interconnected The planning and operation of bulk electric systems shall recognize that reliability is an essential requirement of a robust North American economy	
An Organization Standard shall not give any market participant an unfair competitive advantage	
An Organization Standard shall neither mandate nor prohibit any specific market structure	
An Organization Standard shall not preclude market solutions to achieving compliance with that Standard	
An Organization Standard shall not require the public disclosure of commercially sensitive information. All market participants shall have equal opportunity to access commercially non-sensitive information that is required for compliance with reliability standards	