

# Meeting Notes

## Project 2017-01 Modifications to BAL-003-1.1

September 26-27, 2018

SPP  
Little Rock, AR

### Administrative

#### 1. Introductions

The meeting was brought to order by the Chair, David Lemmons, at 8:00 a.m. Central on Wednesday, September 26, 2018. Daniel Baker with SPP provided the team with building and safety information/logistics. Participants were introduced and those in attendance were:

Name	Company	Member/ Observer	In-person (Y/N)	Conference Call/Web (Y/N)
David Lemmons	EthosEnergy	M	Y	
Rich Hydzik	Avista	M	Y	
Linda Lynch	NextEra	PMOS	Y	
Greg Park	NWPP	M		Y
James Fletcher	American Electric Power	M	Y	
Tom Pruitt	Duke Energy	M	Y	
Terry Bilke	MISO	M	Y	
Bill Shultz	Southern Company	M	Y	
Jessica Tang	IESO	M	Y	
Daniel Baker	SPP	M	Y	
Josh Boone	LG&E and KU Services, Inc.	M	Y	
Antonio Franco	Gridforce	M	N	

Name	Company	Member/ Observer	In-person (Y/N)	Conference Call/Web (Y/N)
Sandip Sharma	ERCOT	M	Y	
James Oddy	FERC	O	Y	
Syed Ahmad	FERC	O	Y	
Dennis Fuentes	FERC	O	Y	
Laura Anderson	NERC	NERC staff	Y	
Candice Castaneda	NERC	NERC staff	Y	
Darrel Richardson	NERC	NERC staff		Y
Bob Cummings	NERC	NERC staff	Y	
Elizabeth Davis	PJM	O	Y	
Brad Gordon	NERC	NERC staff		Y
Danielle Croop	PJM	M		Y
Robert Blohm		O		Y
Tom Siegrist	Stone, Mattheis, Xenopoulos & Brew, P.C.			Y
Elsa Prince	NERC	NERC staff		Y
Chris Busltsma	WAPA	O		Y

**2. Determination of Quorum**

The rule for NERC standard drafting team (SDT or team) states that a quorum requires two-thirds of the voting members of the SDT. Quorum was achieved as 10 of 13 total members were present.

**3. NERC Antitrust Compliance Guidelines and Public Announcement**

NERC Antitrust Compliance Guidelines and public announcement were reviewed by Laura Anderson. There were no questions raised.

**4. Team Roster**

The team reviewed the team roster and confirmed that it was accurate and up to date.

## Agenda

### 1. Review Comments Received from 15-day Informal Comment Period

- a. After team discussion, it was decided that all comments received would be responded to in addition to being accepted as inputs to the SDT
- b. The SDT decided to provide responses to each comment received, in addition to providing summary responses.

### 2. Proposed Resource Loss Protection Criteria

- a. Team reviewed proposed document and comments received from informal posting.
- b. Team voted on moving forward with the proposals drafted as a result from the inputs from the informal comment posting: Vote for calling it Resource Loss Protection Criteria (RLPC): One voter abstained, nine affirmative votes, and zero no votes. Vote on all other redlines to the RLPC proposed changes: 10 affirmative votes and zero no votes.
- c. Background: RLPC is the respective Interconnection design resource loss in MW which is used to determine the Interconnection Frequency Response Obligation (IFRO). An “N-2 Event” is defined as a single initiating event that leads to multiple (two or more) electrical facilities being removed from service. Examples of this are breaker failure events, bus faults, or double circuit tower outages.

Previously, the RLPC has been calculated from the largest N-2 event identified in each Interconnection, except for the Eastern Interconnection. In the Eastern Interconnection, the RLPC has been calculated using the largest single event in the previous ten years. The RLPC value should be set for each Interconnection such that the underfrequency load shedding safety net is not activated for the largest N-2 Event.

Previous BAL-003 IFRO methodology determined that the largest N-2 Event should not precipitate an underfrequency load shedding event. Ideally, the RLPC value should always equal or exceed the largest N-2 Event. If the RLPC is set to a larger value than the largest N2 Event, the probability of an underfrequency load shedding event decreases. If the RLPC value is set to a value less than the largest N-2 Event, the probability of an underfrequency load shedding event increases.

A quantitative approach to selecting the RLPC can be implemented that minimizes the need for detailed system analysis to be performed annually. Currently, each Balancing Authority (BA) or Reserve Sharing Group (RSG) determines its Most Severe Single Contingency (MSSC) with respect to resource loss as required by BAL-002-2(i), Requirement R2. The MSSC calculation is done in Real-time operations based on actual system configuration.

### 3. Develop/revise IFRO methodology – The team discussed comments received regarding the IFRO methodology.

- a. The SDT will develop the framework for the technical justification (including metrics) and the process for adjustments. Absent any change in any of the technical parameters, the IFRO will

- not increase unless there is degradation in actual response. The IFRO can increase based on larger (>10%) change in RLPC annually.
- b. The IFRO methodology proposed by the drafting team separates several variables from the annual modification of the IFRO, including the C to B ratio and delta frequency, and simplifies the calculation. These variables are being reviewed as part of the analysis process that will occur outside of the standard.
  - c. Similar to the process used in BAL-001, formulas will be included in the Attachment of the standard; the variables will be maintained outside the Attachment of the standard.
  - d. “The largest event in the last 10 years” is being removed and replaced with the RLPC.
- 4. The Team reviewed, edited, and prepared all documents so they could be submitted for Quality Review**
- a. BAL-003-2
  - b. VRF/VSL Document
  - c. Implementation Plan
  - d. Unofficial Comment Form
  - e. Comment Report with Responses from Informal Comment Period
  - f. Resource Loss Protection Criteria Document
  - g. *Procedure for ERO Support of Frequency Response and Frequency Bias Setting Standard*
  - h. Background Document
  - i. FRS Form 1
- 5. Future meeting(s)**
- a. October 19, 2018 – WebEx to review Quality Review inputs
  - b. January 29-30, 2019 – Juno Beach, FL
- 6. Adjourn**
- The meeting adjourned at 4:20 p.m. Central on September 27, 2019.