

Meeting Notes

Project 2017-01 Modifications to BAL-003-1.1

August 28-29, 2018

NWPP
Portland, OR

Administrative

1. Introductions

The meeting was brought to order by the Chair, David Lemmons, at 8:00 a.m. Pacific on Tuesday, August 28, 2018. Greg Park 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		Y

Name	Company	Member/ Observer	In-person (Y/N)	Conference Call/Web (Y/N)
Sandip Sharma	ERCOT	M	Y	
Guy Zito	NPCC	O	Y	
James Oddy	FERC	O	Y	
Nick Henery	FERC	O	Y	
Laura Anderson	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.			
Elsa Prince	NERC	NERC staff		Y
Rian Sackett	BPA	O		Y
Gerry Beckerle	Ameren	O		Y
Matthew Verghese	NERC	NERC staff		Y
Dennis Fuentes	FERC	O		Y
Chris Busltsma	WAPA	O		Y
Scott Winter		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 13 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. Roster Updates

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

Agenda

1. Review of Action Items from Previous Meeting and discussions

- a. Proposed Resource Loss Protection Criteria – Rich Hydzik (documents) Jim Fletcher RCC v. RLPC for terms used.
 - i. Team reviewed proposed document: The Resource Loss Protection Criteria (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.
 - ii. 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.
 - iii. 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.
 - iv. 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.
- b. Delta from 4500 MW – Jim Fletcher
- c. Annual step maximum – Jim Fletcher
- d. What criteria to use to halt or reverse a step:
 - i. Nadir (C-Point) minus UFLS trigger frequency
 - ii. Stabilization frequency (B-Point)
 - iii. System Load or inertia at time of event
 - iv. RoCoF in first 0.5 seconds of event
 - v. Determination of event(s) to be used

2. Discussion

- a. Robert Blohm questioned agenda as to why C-to-B ratio discussion was not included. The Chair addressed Robert's concern as not needed due to the direction the team had decided to take in Phase I.
- b. IFRO should be defined or an identification should be outlined as to where the number originates. As there is a move through time, things will change for B to C ratio, performance will increase or decrease. Change greater than 10 percent up or down bandwidth above UFLS to alleviate IFRO.
- c. Next Form 1 submission is March 2019. IFRO will recalculate, so updated numbers will be available by implementation date.
- d. FRAA would be the deciding tool if IFRO change is needed.
- e. Standards Drafting Team discussed and decided that Rich's version draft of the RLPC document should be a standalone document for the informal comment period posting.
- f. Unofficial Comment Form was drafted together by the team. Seven questions were drafted to seek industry input if this team was going in the proper direction for Phase I.
- g. Procedure Document – discussion on stepping down the Eastern Interconnection RCC each year for three years. The reason for the step-down suggestion is that it might need to go slowly because perception is that things are not as good in the east as they should be and this step-down is a reduction in obligation. The team also stated that an annual assessment would need to occur and if any measures lower, the IFRO would be recalculated.
- h. Team discussed timeline for project and is prepared to move forward with an informal comment period. Informal posting will run from September 6, 2018 through September 20, 2018. For Phase 1, there will be no changes to requirements, only Attachment A and the procedure document.

3. Action Item Review

- a. Include link in Attachment A to procedure document – Laura Anderson
- b. Send project timeline to team at conclusion of meeting – Laura Anderson

4. Future meeting(s)

- a. September 26-27, 2018 – Little Rock, AR
- b. December 4-5, 2018 – Charlotte, NC

5. Adjourn

The meeting adjourned at 3:10 p.m. Pacific on August 29, 2018.