

## Notes

### Under-frequency Load Shedding SDT — Project 2007-01

October 12, 2009 | 1:00 pm. — 3:00 p.m. Eastern  
Conference Call and Webinar  
Dial-in Number: (866) 740-1260 | Access Code: 6088084

Participants, click here to join the meeting:  
<https://cc.readytalk.com/r/r10teqkd0ueb>

#### 1. Administrative

##### Roll Call

Stephanie Monzon welcomed the members and guests of the Standard Drafting Team for Project 2007-01 Underfrequency Load Shedding (see Roster — **Attachment 1a**).

- **Robert J. O'Keefe** — American Electric Power (Chair)
- Paul Attaway — Georgia Transmission Corporation
- Brian Bartos — Bandera Electric Cooperative
- Jonathan Glidewell — Southern Company Transmission Co.
- Gary Keenan — Northwest Power Pool Corporation
- Robert W. Millard — ReliabilityFirst Corporation
- Steven Myers — Electric Reliability Council of Texas, Inc.
- Mak Nagle — Southwest Power Pool
- Brian Evans Mongeon — Utility Services, LLC
- Tony Rodrigues — PacifiCorp
- Si Truc Phan — TransEnergie
- Scott Berry — Indiana Municipal Power Agency
- Frank Gaffney — Florida Municipal Power Agency
- Stephanie Monzon — NERC
- Philip Tatro — NERC

##### Observers

- Anthony Jablonski — ReliabilityFirst Corporation
- Pete Heidrich — FRCC
- Steve Wadas — Nebraska Public Power District
- Carol Gerou — Midwest Reliability Organization
- Eric Mortenson — Commonwealth Edison

- Scott Sells – FERC Staff
- Laura Zotter – ERCOT
- Jill Loewer – Utility Services, LLC

### **NERC Antitrust Compliance Guidelines**

Stephanie Monzon reviewed the NERC Antitrust Compliance Guidelines. It is NERC's policy and practice to obey the antitrust laws and to avoid all conduct that unreasonably restrains competition. This policy requires the avoidance of any conduct that violates, or that might appear to violate, the antitrust laws. Among other things, the antitrust laws forbid any agreement between or among competitors regarding prices, availability of service, product design, terms of sale, division of markets, allocation of customers or any other activity that unreasonably restrains competition. It is the responsibility of every NERC participant and employee who may in any way affect NERC's compliance with the antitrust laws to carry out this commitment.

### **2. Steps to Next Posting / Action Plan – FOR REFERENCE**

The team reviewed the following items that must be completed prior to posting:

- Next draft of UFLS Standard (will need to include redline that highlight changes from last posting) – completed during the Oct. 5-6 meetings (with the exception of the curves which will be finalized during a conference call).
- Revised EOP-003 requirements – Completed during a prior conference call.
- Comment Form – Review of questions assigned during meeting **due Oct. 9<sup>th</sup>** (to be discussed Oct. 12<sup>th</sup>)
- Mapping Document – Carol G. will review the document and update consistent with the revised standard – **Due Oct. 9<sup>th</sup>** (to be discussed Oct. 12<sup>th</sup>)
- Implementation Plan – Reviewed Oct. 6 and will be finalized over email.
- Response to Comments / Summary Considerations –

### **3. 60-second UFLS Curve**

Phil Tatro reviewed the curve proposed by the MRO (extends the curve from 30 seconds to 60 seconds) and will share his thoughts on including the revised curve.

Phil reminded everyone that at one point the team had the curve extended parallel to the generator verification curve but decided not to because it would result in questionable results considering modeling issues.

Phil thought that it would be good to agree to something that would meet all needs and avoid a variance. Regarding the concern that the curve implies that simulations need to be run out through 60 seconds Phil thinks that as long as frequency recovers within 60 seconds (not necessarily needing to run the simulation for 60 seconds).

Rob indicated that his inclination is to accept the MRO curve maintaining the .2hz margin but extending the curve to 60 seconds. Rob clarified that this is only for the UF curve and that the OF curve will remain out to 30 seconds.

**4. Mapping Document/Implementation Plan**

The team did not discuss these documents due to time constraints.

**5. Comment Form**

Rob asked for a volunteer to revise the standard’s Measures – Carol G. volunteered to revise them and Rob indicated this is needed by the next conference call which is Oct. 23<sup>rd</sup> and the revised Measures will be due on **Oct. 20th.**

The team reviewed all the questions on the comment form and agreed to wording for each except for Question 3. The team assigned Brian Evans-Mongeon an action item to write up the rationale for modifying the applicability to include in the background (and then to simplify the question).

The team corrected Requirements R4 and R5 to include the appropriate 20 MVA and 75 MVA language that was accidentally omitted in the redline of the standard. Also, as the team discussed the question regarding the re-assessment of the UFLS program and equipment following an event the point was made the term “equipment” is too vague and that rephrasing to “equipment associated with UFLS” would be better. The team agreed and made a conforming change to the standard.

Rob and Stephanie took an action item to propose the background information for the comment form.

**6. Action Items**

Stephanie Monzon reviewed the actions that were open at the end of the meeting.

<b>Action Items:</b>	<b>Status:</b>	<b>Assigned To:</b>
<p>Stephanie to follow-up with Compliance and Standards to determine if the draft standard can require that the group of PC’s use their regional standards development processes to develop the UFLS program.</p> <p>The standard cannot require “how” the program is established only what is required of the program.</p>	<p><b>Created 2/11</b>  <b>By 2/20 conference call</b>  <b>Closed</b></p>	<p>Stephanie</p>
<p>Stephanie will follow up with Gerry regarding the FERC direction to include the PRC-009 requirements into the draft standard. FERC did</p>	<p><b>Created 6/11/09</b></p>	<p>Stephanie</p>

Action Items:	Status:	Assigned To:
not support the team's argument that they could be covered under the NERC ROP data request.		
<p><b>Barry's Comments:</b></p> <p>The team will review Barry's comments and will review Stephanie's list of major issues (for Barry's comments) and will email additions to the list by <b>COB June 22, 2009</b>.</p>	<b>Closed</b>	Team
<p>The sub-teams will begin writing formal responses to the comments based on the discussion of issues at the June 10<sup>th</sup> meeting.</p> <p><b>Question 1 and 2: Bob/Carol</b> Bob and Carol will finalize the responses by June 19 — the team will review and discuss by exception on the July 7<sup>th</sup> meeting — <b>Complete</b></p> <p><b>Question 3: Rob</b> The team will discuss response to comments (not done at the June in person meeting). Jonathan will lead the discussion and identify the major issues for discussion. — <b>Complete</b></p> <p><b>Question 4: Jonathan</b> The team will discuss on the August 6<sup>th</sup> call – <b>Complete (on the July 20 call)</b></p> <p><b>Barry Francis: Rob</b> The team will discuss on the August 6<sup>th</sup> call – <b>Complete</b></p> <p><b>Question 5: Gary, Tony, Si Truc</b> The team will discuss on the August 24<sup>th</sup> - <b>Complete</b></p> <p><b>Question 6: Gary, Tony, Si Truc</b> August 24<sup>th</sup> call – the team did not discuss Question 6 responses. The team will discuss on conference calls after the meeting in Montreal. <b>Completed on the 9/8/09 call</b></p> <p><b>Question 7: Brian</b> By exception – <b>completed on the 9/11/09 call</b></p> <p><b>Question 8:</b> August 24<sup>th</sup> call – the team did not discuss Question 6 responses. The team will discuss on conference calls after the meeting in Montreal. – <b>completed on 9/25 call.</b></p>		

## 7. Next Steps

Date	Location	Comments
August 6, 2009 from 9:30 a.m.–noon EST	Conference Call and WebEx	Barry Francis
August 24, 2009 from 1–3:30 p.m. EST	Conference Call and WebEx	Question 5, 6, 7 and 8
September 1–2, 2009 from 8 a.m.–5 p.m. (both days)	In person meeting — Montreal	Confirmed
September 8, 2009 9:00 am – 12:00 pm Eastern	Conference Call and WebEx	Question 6
September 9, 2009 1:00 pm – 3:00 pm Eastern	Conference Call	FERC Staff review of standard
September 11, 2009 12:30 pm – 2:30 pm Eastern	Conference Call and WebEx	Question 7 by exception and Question 8
September 14, 2009 1:30 pm – 4:00 pm Eastern	Conference Call and WebEx	Question 8
September 22, 2009 11am – 1pm Eastern	Conference Call and WebEx	Question 8
September 24, 2009 10:00 am – 12:00 pm Eastern	Conference Call and WebEx	Question 8 - overflow Compliance Elements
September 25, 2009 9:00 am – 11:00 am Eastern	Conference Call and WebEx	EOP-003 Review Question 8 overflow
October 5, 2009 October 6, 2009 Two full days (8-5 pm)	In person meeting FMPA Orlando, FL	Implementation Plan, Standard Final Pass Compliance Elements Comment Form, Mapping Document, Remaining issues
October 12, 2009 1-3 pm eastern	Conference Call/Webex	Comment Form Mapping Document Implementation Plan

October 23, 2009 2-4 pm eastern	Conference Call/Webex	Mapping Document Implementation Plan Hydro curve Second/Final Pass responses to comments
October 29, 2009 2-4 pm eastern	Conference Call/Webex	Review of VSLs and other compliance elements by exception
January 12-13, 2010 8-5 pm both days	FMPA	Go-no decision to ballot standard

**8. Adjourn**

The meeting adjourned at 3:27 pm eastern