

Meeting Notes

Underfrequency Load Shedding SDT — Project 2007-01

September 09, 2008 | noon–5 p.m. PST

September 10–11, 2008 | 8 a.m.–5 p.m. PST

September 12, 2008 | 8 a.m.–noon PST

1. Administrative

a) Roll Call

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

- Dana Cabbell — Southern California Edison Co. (Chair)
- Paul Attaway — Georgia Transmission Corporation
- Brian Bartos — Bandera Electric Cooperative
- Larry E. Brusseau — Midwest Reliability Organization
- Jonathan Glidewell — Southern Company Transmission Co.
- Gary Keenan — Northwest Power Pool
- Robert W. Millard — ReliabilityFirst Corporation
- Steven Myers — Electric Reliability Council of Texas, Inc.
- Mak Nagle — Southwest Power Pool
- Robert J. O'Keefe — American Electric Power
- Philip Tatro — National Grid
- Robert Williams — Florida Municipal Power Agency
- Stephanie Monzon — NERC
- David Taylor — NERC

Each team member was asked to verify the information on the UFLSDT roster and notify Stephanie Monzon via e-mail of any corrections that should be made.

b) NERC Antitrust Compliance Guidelines

Stephanie Monzon reviewed the NERC Antitrust Compliance Guidelines provided in **Attachment 1b**. 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. Project Schedule

Stephanie Monzon reviewed the schedule for Project 2007-01 UFLSDT with the team and made updates. She sent the updated schedule to Lauren Koller to post.

3. Discuss NERC and FERC Meeting — Next Steps

David Taylor and Stephanie Monzon led a discussion on the meeting with FERC staff held on July 11, 2008.

- a. Dave discussed the approach to include augmenting the ROP with Dave Cook. Dave Cook indicated that this was not a favorable approach. He encouraged the team to write a continent-wide standard, using language that allows the PC's to coordinate with their Regional Entities to fulfill the requirements set forth in the standard.
- b. On Day 2 — Bob Millard called in from the FMWG to discuss next steps.
 - FM — no changes to the planning function. This would be addressed in version 5 next spring.
 - If standards pose technical requirements with applicability that does not completely agree with the FM than this is acceptable since the FM is only a guide.

4. Review and Draft Responses to Comments (First Posting)

The team reviewed the comment report and draft responses to the industry comments received during the first posting.

- The team reviewed the comments received and drafted responses to questions 1–5. The team did not complete all the questions as there was not enough time to address the remaining questions.
- On Thursday afternoon, after completing question 5, the team assigned the remaining questions to sub-groups. These sub-groups will propose responses to the remaining questions to be discussed at the next meeting.
- The action item is captured below.

5. Action Items

Stephanie Monzon reviewed the actions that were open at the end of the July 28, 2008 conference call of the drafting team:

Action Items:	Status:	Assigned To:
Dana Cabbell to contact the WECC Control Work Group to inquire as to what data they have collected relative to generator trip settings during frequency excursions and report back to the UFLSDT.	This action item has been completed. The curves have been shared with the UFLSDT.	Dana Cabbell
Dana Cabbell volunteered to modify the draft comment form to incorporate mapping tables for each of the three standards to be eliminated in association with this project.	This action item was completed with the posting of the regional reliability standard performance elements for posting.	Dana Cabbell
Bob and Phil were tasked with proposing changes to the performance characteristics to incorporate the "annual certification" of the UFLS programs.	This action item was completed with the posting of the regional reliability standard performance elements for posting.	Bob Millard and Phil Tatro
The remaining questions for the comment report: Question 6: Phil T. and Jonathan Question 7: Gary K. Question 8: Larry B. and Bob M. Question 9: Rob O.	Responses are due October 2.	See first column
Stephanie will compile the draft responses and send out to the SDT prior to the next meeting (October 22–23).		Stephanie

6. Next Steps

- The group discussed and identified the next steps and established future meeting dates and locations.
- The team decided to meet in person on October 22–23 to discuss the overall approach. This will take place in Chicago.
- The team decided that the issues could be discussed on a call before the in person meeting in October if needed.

7. Review of Issues

- The following issues were extracted from the draft comment document containing responses to the questions.
 1. The SDT should consider whether there are any special systems (such as a peninsula) that may warrant different criteria and allow the regional standards to consider other criteria for those systems (SDT TO DRAFT RESPONSE).
 2. The SDT will clarify the term "identified island".
 3. Do we want to find and replace "imbalance" with "generation deficiency"?

4. The buses for which this should apply should be determined according to volts per Hz limits on applicable equipment, etc. In addition, the SDT clarifies that the requirement does not address overvoltage limits. **NEED TO DISCUSS 4.4 and REVISE REPLY IF NEEDED.**
5. There must be a common performance measure that all interconnected systems should be able to attain. The SDT acknowledges that this is inconsistent with ERCOT 3.1.4.6 (1.16 pu v/Hz for 1.5 seconds); however, the proposed performance characteristic is based on IEEE C37.102.

The team will be discussing the issues above at the next meeting. The team anticipates that the team will modify the response to comments based on the discussions.

- The UFLS SDT discussed comments on the upper frequency limit and sent a notice of a proposed increase in such limit to the GVSdT for discussion at its meeting next week, understanding that it is that team's responsibility to set a "safe" over frequency value for generator tripping and the UFLS program must coordinate.

8. Adjourn

The SDT adjourned at 11 a.m. PST on Friday, September 12, 2008.