



NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

Underfrequency Load Shedding Standard Drafting Team

August 15, 2007 — 1 p.m.–5 p.m. Central Time

August 16, 2007 — 8 a.m.–5 p.m. Central Time

August 17, 2007 — 8 a.m.–noon Central Time

ERCOT Offices
7620 Metro Center Drive
Austin, Texas 78744
☎ (512) 225-7000

Meeting Agenda

1) Administrative

a) Roll Call

David Taylor will lead the welcome of members and guests of the Standards Drafting Team for Project 2007-01 Underfrequency Load Shedding (see Roster — **Attachment 1a**).

- Dana Cabbell — Southern California Edison Co. (Chair)
- Paul Attaway — Georgia Transmission Corporation
- Brian Bartos — Banders Electric Cooperative
- Larry E. Brusseau — Midwest Reliability Organization
- Jonathan Glidewell — Southern Company Transmission Company
- Geral Keenan — Bonneville Power Administration
- Donal Kidney — Northeast Power Coordinating Council, Inc.
- 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
- Arthur Vierling — National Grid
- Robert Williams — Florida Municipal Power Agency
- Richard Young — American Transmission Company, LLC
- Mohsen Zamzam — Consolidated Edison Co. of New York
- David Taylor — North American Electric Reliability Corporation

Each team member is asked to verify the information on the UFLS roster and notify David Taylor via e-mail of any corrections that should be made.

b) NERC Antitrust Compliance Guidelines

David Taylor will review 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

116-390 Village Boulevard, Princeton, New Jersey 08540-5721

Phone: 609.452.8060 • Fax: 609.452.9550 • www.nerc.com

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) Action Items

Dana Cabbell will review the actions generated during the June 20–22 meeting of the standard drafting team for Project 2007-01:

Action Items:	Status:	Assigned To:
Each person that presented the regional UFLS program at the June 20–22 meeting of the SDT needs to find a person to present the technical UFLS report at the August 15–17 SDT meeting in Austin; and provide an electronic copy of the technical report to the team. (The technical reports are not to be posted on the NERC website and not to be distributed outside the UFLSDT distribution list.)	<p>Remains Open — The following presenters have been confirmed: Dana Cabbell — WECC Mak Nagle — SPP Jonathan Glidewell — SERC Rob O'Keefe and Rich Young — RFC</p> <p>The following regions need to identify a presenter: Bob Williams — FRCC Steve Myers — TRE Larry Brusseau — MRO ??? — NPCC</p>	Steve Myers, Bob Williams, Larry Brusseau, Mohsen Zamzam, Bob Millard, Jonathan Glidewell, Mak Nagle, and Dana Cabbell
Dave Taylor to provide an overview of the NERC data rule at the next standard drafting team meeting.	New	Dave Taylor
Pamela Dautel is to report back to the group what percentage of load might not be obligated to provide UFLS capability due to registration cutoff levels.	New (Note: See Attachments 2a and 2b)	Pamela Dautel
Richard Young to draft requirements to include in the draft standard related to over-voltage (off-nominal voltage) protection.	New	Richard Young

3) Project Schedule

David Taylor will review the schedule for Project 2007-01 (**Attachment 3**).

4) Underfrequency Load Shedding Programs — Technical Reports

Presentations highlighting the technical basis for each of the regional UFLS programs will be provided by representatives of each of the NERC regions.

- a) ERCOT
- b) FRCC

- c) MRO
- d) NPCC
- e) RFC — Rob O'Keefe and Rich Young
- f) SERC — Jonathan Glidewell
- g) SPP — Mak Nagle
- h) WECC — Dana Cabbell

5) NERC Data Rule

David Taylor will provide a presentation on the NERC data rule (**Attachment 5**).

6) Generator Underfrequency Setpoints

Robert O'Keefe will review the graph he provides indicating the regional generator underfrequency setpoints (**Attachment 6**).

7) Standards Revisions

Dana Cabbell will lead the group in revising standards that are within the scope of the SAR for Project 2007-01:

- a) Draft Pro Forma Regional Standard (**Attachment 7a**)
- b) PRC-007 — Assuring Consistency with Regional UFLS Programs (**Attachment 7b**)
- c) PRC-009 — UFLS Performance Following an Underfrequency Event (**Attachment 7c**)
- d) Strawman for PRC-0xx-1 — Automatic Underfrequency Load Shedding (**Attachment 7d**)

8) Action Items

Dana Cabbell will review the action items generated during the meeting and confirm assignments.

9) Next Steps

The group will discuss and identify the next steps and establish future meeting dates and locations.

Next meetings:

- September 14 — Conference Call
2 p.m.–5 p.m. Eastern Time
- Oct 3–5 — Tampa
1–5 p.m. Eastern Time on October 3
8 a.m.–5 p.m. Eastern Time on October 4
8 a.m.–noon Eastern Time on October 5
- October 19 — Conference Call
2 p.m.–5 p.m. Eastern Time

7) Adjourn