

Meeting Notes Disturbance Monitoring Standard Drafting Team

March 31, 2008 | noon–5 p.m. Phoenix Time

April 1, 2008 | 8 a.m.–5 p.m. Phoenix Time

April 2, 2008 | 8 a.m.–noon Phoenix Time

Hyatt Regency Phoenix
122 North Second Street
Phoenix, AZ
Phone: 602-252-1234

1. Administrative

1.1. Roll Call

David Taylor welcomed the members and guests of the Standards Drafting Team (SDT) for Project 2007-11 Disturbance Monitoring. Those on the drafting team in attendance were:

- Navin B. Bhatt — American Electric Power (Chair)
- Felix Amarth — Georgia Transmission Corporation
- Larry Brusseau — Midwest Reliability Organization
- James R. Detweiler — FirstEnergy Corp.
- Barry G. Goodpaster — Exelon Business Services Company
- Willy Haffecke — Springfield Missouri City Utilities
- Robert (Bob) Millard — ReliabilityFirst Corporation
- Steven Myers — Electric Reliability Council of Texas, Inc.
- Jeffrey M. Pond — National Grid
- Susan McGill — PJM
- Larry E. Smith — Alabama Power Company (via telephone)
- Jack Soehren — ITC Holdings
- Stephanie Monzon — North American Electric Reliability Corporation
- David Taylor — North American Electric Reliability Corporation

Those on the drafting team not in attendance:

- Alan D. Baker — Florida Power & Light Company
- Bharat Bhargava — Southern California Edison Co.
- Charlie Childs — Ametek Power Instruments
- Richard Dernbach — Los Angeles Department of Water & Power
- Daniel J. Hansen — Reliant Energy, Inc.
- Tracy M. Lynd — Consumers Energy Co. (via telephone)
- Susan L. McGill — PJM Interconnection, L.L.C.

Observers:

- Richard Ferner — WAPA

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

1.2. NERC Antitrust Compliance Guidelines

David Taylor reviewed the NERC Antitrust Compliance Guidelines with the group. No questions were asked of the NERC Antitrust Guidelines.

2. August 4, 2007 Event

Navin Bhatt provided the group with a high level overview of the August 4, 2007 event at the AEP Rockport power station from the DME perspective.

3. Action Items

David Taylor reviewed the actions generated during the last meeting of the standard drafting team for Project 2007-11 Disturbance Monitoring:

Action Items	Status:	Assigned To:
Jim Detweiler agreed to supply the RFC implementation plan as the basis to develop an implementation plan for this project. Jim will work Jeff Pond and Alan Baker to draft an implementation plan prior to the next meeting of the group.	Remains Open	Jim Detweiler, Jeff Pond, and Alan Baker
Revise draft standard and distribute it to SDT prior to next meeting	Complete — provided shortly after last meeting.	Susan McGill
Prepare comments on draft standard prior to next meeting	Complete — comments discussed during this meeting	All

4. Project Schedule and SDT Objectives

David Taylor reviewed the schedule for Project 2007-01 Disturbance Monitoring. The team is behind schedule but is working diligently at crafting the best standard possible. Much work still needs to be done to the standard in order to get it to the point that it can be posted. Once the group agrees on the requirements, David Taylor suggested the compliance elements and implementation plan need drafted before it can be posted.

The group also discussed the possibility of revising the scope of this project to remove the maintenance and testing aspect of DM equipment. The group agreed that Requirement 6 of the current PRC-018-1 should be developed once the work on Project 2007-17 Protection System Maintenance and Testing is complete. The particular requirement states:

R6. Each Transmission Owner and Generator Owner that is required by its Regional Reliability Organization to have DMEs shall have a maintenance and testing program for those DMEs that includes:

R6.1. Maintenance and testing intervals and their basis.

R6.2. Summary of maintenance and testing procedures.

The drafting team for this project (Project 2007-11) requested the drafting team for Project 2007-17 to include maintenance and testing requirements for disturbance monitoring. The drafting team for Project 2007-17 declined.

Action Item: The group must resolve how to develop requirements for maintenance and testing of disturbance monitoring equipment (DME). Possible options include, adding maintenance and testing requirements to the draft PRC-002 standard, asking the Standards Committee to transfer the maintenance and testing requirements to the standard drafting team (SDT) for Project 2007-17 Protection System Maintenance and Testing, or some other solution. Ultimately, the maintenance and testing requirements for DME should “look and feel” like the maintenance and testing requirements developed by the SDT for Project 2007-17 Protection System Maintenance and Testing. In addition, the teams must determine what and where to address equipment or address the functionality of the disturbance monitoring equipment.

5. Standards Revisions

Navin Bhatt led the group in discussing and revising the draft of standard PRC-002-2. Attachment 1 provides a redline draft of PRC-002-2.

During the discussion Navin mentioned a white paper prepared by the Interconnection Dynamics Working Group (IDWG) that defined dynamic disturbance recording (DDR).

Action Item: Navin to supply the group with the white paper prepared by the Interconnection Dynamics Working Group (IDWG) that defined dynamic disturbance recording (DDR).

6. Compliance Elements of the Standard

Stephanie Monzon will review the guidelines for developing compliance elements for the standard and time permitting; the team will begin developing the compliance elements for the standard (**Attachments 5a and 5b**).

Compliance elements:

- Navin volunteered to lead a small group of the drafting team to draft the measures for the requirements. Jack Soehren, Felix Amarh, and Barry Goodpaster volunteered to assist Navin.
- Navin asked Steve Myers, Larry Brusseau, and Bob Millard to draft the VRFs and VSLs for the standard.

Action Item: Navin to lead a small group in drafting the measures for the requirements. Jack Soehren, Felix Amarh, and Barry Goodpaster volunteered to assist Navin.

Action Item: Steve Myers, Larry Brusseau, and Bob Millard to draft the VRFs and VSLs.

The group discussed the sequence of activities to complete before the posting of the standard for industry comment. Bob Millard suggested (and the group agreed) that it might be better to post just the requirements for comment instead of pulling together all the measures and compliance elements in order to post a complete standard. In order to comply with Bob’s suggestion a comment form would need to ask a suite of questions of the industry in order to better understand the industry’s opinion of the draft requirements of the standard. Navin, Bob, and Barry agreed to draft a comment form for the first posting of the standard. The goal will be to post the standard for comment by mid-May and hold the next face-to-face meeting in early July.

Action Item: Navin Bhatt, Bob Millard, and Barry Goodpaster agreed to draft a comment form for the first posting of the standard.

7. Action Items

Navin Bhatt will review the action items generated during the meeting and confirm assignments.

Action Items	Status:	Assigned To:
Jim Detweiler agreed to supply the RFC implementation as the basis to develop an implementation for	Remains Open	Jim Detweiler, Jeff Pond, and Alan

Action Items	Status:	Assigned To:
this project. Jim will work Jeff Pond and Alan Baker to draft an implementation plan prior to the next meeting of the group.		Baker
The group must resolve how to develop requirements for maintenance and testing of disturbance monitoring equipment (DME). Possible options include, adding maintenance and testing requirements to the draft PRC-002 standard, asking the Standards Committee to transfer the maintenance and testing requirements to the standard drafting team (SDT) for Project 2007-17 Protection System Maintenance and Testing, or some other solution. Ultimately, the maintenance and testing requirements for DME should “look and feel” like the maintenance and testing requirements developed by the SDT for Project 2007-17 Protection System Maintenance and Testing.	New	All
Navin to supply the group with the white paper prepared by the Interconnection Dynamics Working Group (IDWG) that defined dynamic disturbance recording (DDR).	New	Navin Bhatt
Stephanie to survey the group to determine the dates for future meetings of the group.	New	Stephanie Monzon
Navin to lead a small group in drafting the measures for the requirements. Jack Soehren, Felix Amarh, and Barry Goodpaster volunteered to assist Navin.	New	Navin Bhatt, Jack Soehren, Felix Amarh, and Barry Goodpaster
Steve Myers, Larry Brusseau, and Bob Millard to draft the VRFs and VSLs.	New	Steve Myers, Larry Brusseau, and Bob Millard
Navin Bhatt, Bob Millard, and Barry Goodpaster agreed to	New	Navin Bhatt, Bob Millard,

Action Items	Status:	Assigned To:
draft a comment form for the first posting of the standard.		and Barry Goodpaster

8. Next Steps

The group discussed the next steps and asked Stephanie to survey the group for future meeting dates.

After much discussion, the group agreed to post the draft standard and draft implementation plan for comment in the near future in order to gain industry comment on the work to date. Compliance elements will be added later.

9. Adjourn

The meeting adjourned at approximately 11:00 a.m. Phoenix Time.