



**MEETING MINUTES
MIDWEST RELIABILITY ORGANIZATION
Protective Relay Subcommittee**

Holiday Inn Select – Bloomington, MN
November 18, 2008 – 8:00am – 5:00pm

1. Call to Order

Protective Relay Subcommittee (PRS) Chair Bhan called the meeting to order at 8:05am.

2. Welcome

Chair Bhan welcomed all those in attendance. Mr. Raveling determined that a quorum was present. The following members and MRO staff were present during the meeting:

PRS Members Present

Deven Bhan, Chair, WAPA

Keith Orsted, ATC

Mark Peterson, GRE

Terry Hopkins, DPC

Len Yee, SPC

Richard Quest, XEL (PAC Liaison)

Steve Wadas, NPPD

Don Raveling, MDU, Vice Chair

David Bisel, MP

Ken Birt, MEC

Ron McIvor, OPPD

Dede Subakti, (MISO Liaison)

Ding Lin, MH

Steve Mittelsteadt, BEPC (RTC Liaison)

PRS Members Absent

Russ Miller, ALT

Staff Present

Dan Jesberg, MRO, Secretary

John Seidel, MRO, Alt. Secretary

3. Standards of Conduct and Anti-Trust Guidelines

Pursuant to Policy and Procedure 4, Mr. Jesberg reviewed the Standards of Conduct and Anti-Trust Guidelines.

4. Consent Agenda

Chair Bhan reviewed the meeting agenda and solicited the subcommittee for comments, additions, or changes.

Item 7b was struck from the agenda.

a. Approve Minutes of August 26 & 27, 2008 Meeting

Mr. Jesberg called for discussion on the meeting minutes of the August 26 & 27, 2008 meeting.

Upon motion duly made by Mr. Birt and seconded by Mr. Quest, the Protective Relay Subcommittee unanimously approved the minutes of the August 26 & 27, 2008 Protective Relay Subcommittee meeting as amended.

b. Approve MRO Procedures for NERC PRC-012 and NERC PRC-014

Mr. Jesberg presented the latest draft of the MRO procedures for PRC-012 and PRC-014.

Upon motion duly made by Mr. Mittelsteadt and seconded by Mr. Raveling, the Protective Relay Subcommittee unanimously approved the MRO procedures for NERC PRC-012 and PRC-014. Chair Bhan and Wenchun Zhu will present the documents at the November 19th Reliability Assessment Committee (RAC) meeting for final comments and RAC approval.

5. Chairman's Report

Chair Bhan revealed that the RAC had tasked the PRS with the job of creating a regional procedure for NERC EOP-004. In September, Chair Bhan had delegated the task of writing the first draft of the procedure to himself and Mark Peterson.

The document titled "*Technical Reference Paper on Thermal Overload vis a vis Effect on CTs, Relays, Meters RTU Scales*" would be revisited by the PRS in 2009 and that the drafting of the paper would continue under Mr. Mittelsteadt.

Chair Bhan extended a "thank you" and a "farewell" to Steve Wadas and Ron McIvor for their services to the PRS and the MRO. The PRS members wish them well in their future dealing with SPP.

6. MRO Procedure for Disturbance Reporting – First Draft

Chair Bhan and Mr. Peterson presented their draft of the MRO procedure for NERC EOP-004.

Mr. Seidel revealed that MRO compliance staff had already developed a procedure that very closely followed what was required in EOP-004. The PRS agreed that compliance group's developed procedure should be somehow incorporated or reference in the development of the MRO procedure for EOP-004.

Mr. Seidel will coordinate between the MRO compliance group and Chair Bhan and Mark Peterson in continuing the development of the MRO procedure for NERC EOP-004.

7. Technical Reference Papers

a. Recommended Auto-Reclosing

Mr. Yee presented his latest draft of the white paper concerning the auto-reclosing practices in the MRO. After submitting several comments, the group recommended that Mr. Yee send out the document for another commenting period. The title of the document was changed to "Considerations for Transmission Reclosing Practices in the MRO Area."

b. Thermal ratings of CTs and scaling factors

This item was struck from the agenda.

8. NERC Activities

a. Relay Maintenance Standards drafting

Mr. Peterson presented the latest draft of NERC PRC-005. The draft is expected to be released for industry comments in February of 2009.

Action Item:

Mr. Peterson is to submit the latest draft of NERC PRC-005 to the PRS for comments.

b. SPCTF

Chair Bhan Updated the group on recent activities concerning the NERC System Protection and Control Task Force (SPCTF).

There has been a proposal to convert the SPCTF to a standing subcommittee under the NERC Planning Committee (PC).

The SPCTF is finalizing two white papers. One paper will be on generator relaying application and coordination with transmission protection systems. The other paper will be on protection system reliability. These white papers will soon go before the NERC PC for approval.

NERC Standards PRC-003, PRC-004 and PRC-016 will so be visited by the SPCTF for a significant overhaul. The final standards are expected to be completed within 3 years.

c. Z3/PRC-023

Mr. Raveling submitted the PRS's final report on BZ3 mitigation plans to Bob Cummings on September 12th, 2008. The issue of these mitigation plans is expected to move on as a compliance issue.

Within the MRO, all entities submitted completed data except the Western Area Power Administration. NERC has not expressed any requirement on the PRS or the MRO to continue to collect data for the purposes of PRC-023.

9. PRS Activities

a. SPS Review Team Log

Mr. Subakti presented the SPS Review Team Log to the PRS. Recent updates included the review of the Langdon SPS modification, the retirement of the Wien Substation SPS, and the upcoming review of the Story Wind Generation SPS.

b. Update on SPS Review Team Activities

Mr. Subakti reports that the SPS Review is on schedule to complete its work for the year. After the upcoming Story Wind Generation SPS review, no other reviews are expected for the remainder of 2008. In 2009, along with its normal duties, the SPS Review Team will begin the "5-year reviews" of SPS as required by MRO Procedure for NERC PRC-014.

Mr. Jesberg presented the master report for 2008 SPS operations and misoperations. It was noted that additional data pertaining to the proposed corrective action plans would be needed to complete the report by the end of 2008.

The PRS determined that the SPS Review Team will be responsible for reviewing the master SPS operations/misoperations report on a quarterly basis.

Pending the SPS Review Teams recommendations, MRO staff will follow up with SPS owners to acquire any addition information needed for the master report.

Mr. Jesberg revealed to the PRS that the MRO had received a notice from Otter Tail Power (OTP) concerning the status of the Big Stone Runback SPS. According to the notice, OTP had experienced some issues with updating the logic setting of the SPS and the scheme had been subsequently disabled.

Mr. Subakti was able to comment on the situation and reported that control system upgrades were found to be incompatible with design of the SPS. Since then, a manual operating procedure has replaced the SPS. Currently, future status of the SPS is not known.

The PRS had delegated the responsibility of looking into the future status of the Big Stone Runback SPS. The group may, at its discretion, schedule a review of the SPS if needed.

c. Appoint 2009 SPS Review Team Members

Don Raveling and Terry Hopkins agreed to stay on the SPS Review Team for another year. With the departure of Ron McIvor from the group, Ding Lin volunteered for membership.

Upon motion duly made by Mr. Raveling and seconded by Mr. Bisel, the Protective Relay Subcommittee unanimously agreed to appoint Mr. Lin to the SPS Review Team.

d. Relay Misoperations Review Status

Mr. Jesberg presented the master report for the currently collected 2008 misoperations. It was noted (overall and per quarter) that the number of misoperations occurring in the region this year has not varied much from those reported in 2007.

Action Item:

Mr. Bisel is to craft a "lessons learned" summary report to be completed and submitted once the 2008 misoperations are fully collected and reviewed.

Mr. Seidel brought to the attention of the PRS an article in the NERC October new letter which referenced a recent misoperations data collection made by NERC. The article stated that there is increasing concern that relay misoperations are becoming a leading cause of transmission outages in North America.

e. 2009 Team for Relay Misoperations Review

Dave Bisel, Mark Peterson, and Rich Quest, agreed to extend their participation on the Misoperations Review Team through the 2009 year.

10. Other Business

Mr. Jesberg requested that the PRS review or defer the review of the SPS 5-year Review Schedule.

The PRS chose to delegate full responsibility of maintaining and updating the SPS Review Schedule to the SPS Review Team.

11. Next Meetings

a. Establish 2009 Meeting Schedule

Chair Bhan proposed that four to six meetings be held in 2009. Only meeting dates and times for the first two meetings were scheduled:

January 20 and 21, 12:00pm – 5:00pm and 8:00am – 12:00pm

March 3 and 4, 12:00pm – 5:00pm and 8:00am – 12:00pm

12. Adjourn

Having no further business, Chair Bhan adjourned the meeting at 3:50pm.

Prepared by:

Dan Jesberg, Secretary, Midwest Reliability Organization