



**MEETING MINUTES  
MIDWEST RELIABILITY ORGANIZATION**

**Protective Relay Subcommittee**

Holiday Inn Select – Bloomington, MN

March 4, 2009 – 12:00pm – 5:00pm

March 5, 2009 – 8:00am – 12:00pm

**1. Call to Order**

Protective Relay Subcommittee (PRS) Chair Bhan called the meeting to order at 1:05pm.

**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, WAPA, Chair  
Keith Orsted, ATC  
Len Yee, SPC  
Ding Lin, MH

Don Raveling, MDU, Vice Chair  
Ken Birt, MEC  
Richard Quest, XEL  
Mark Peterson, GRE

**PRS Members Absent**

Terry Hopkins, DPC  
Dede Subakti, MISO  
David Bisel, MP

Russ Miller, ALT  
Steve Mittelsteadt, BEPC  
Ron McIvor, OPPD

**Staff Present**

Dan Jesberg, MRO, Secretary  
Laura Elsenpeter, MRO

John Seidel, MRO, Alt. Secretary

**Guests**

Mike Gates, ITC

**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. Due to illness, Chair Bhan delegated the Chair to Don Raveling for the duration of the meeting.

*a. Approve Minutes of January 20 & 21, 2009 Meeting*

Mr. Jesberg called for discussion on the meeting minutes of the January 20 & 21, 2009 meeting.

***Upon motion duly made by Mr. Birt and seconded by Mr. Raveling, the Protective Relay Subcommittee unanimously approved the minutes of***

***the January 20 & 21 Protective Relay Subcommittee meeting as amended.***

**5. Chairman's Report**

Chair Bhan conveyed to the subcommittee his wish to step down as Chair of the PRS and as the MRO representative on the NERC SPCS.

Mr. Raveling put in his name for the position of PRS chair. Mr. Quest and Mr. Orsted put in their names for the position of Vice Chair. Mr. Quest volunteered to serve as the MRO representative on the NERC SPCS.

A formal election for the PRS Chair and Vice Chair positions will be made during the next scheduled PRS meeting. Until then, Chair Bhan will continue to serve as Chair of the PRS.

**Action Item:**

**Chair Bhan will inform the NERC SPCS of his resignation and also recommend that they consider Mr. Quest for his replacement.**

Chair Bhan also informed the group that Russ Miller from Alliant Energy has resigned his position on the PRS. Mr. Miller recommended that Mike Gates of ITC be considered for his replacement. Mr. Gates have a brief introduction on himself and his credentials.

***Upon motion duly made by Mr. Raveling and seconded by Mr. Birt, the PRS elected Mr. Mike Gates of ITC to service on the group.***

**6. MRO Draft Procedure for NERC EOP-004**

Chair Bhan presented the latest draft of the MRO procedure for NERC EOP-004. Mr. Birt presented his draft of Appendix A of the procedure. Mr. Raveling led the discussion of the paper.

***Upon motion duly made by Mr. Lin and seconded by Mr. Bhan, the PRS approved the MRO Procedure for NERC EOP-004.***

**Action Item:**

**Chair Bhan will present MRO-EOP-004 to the MRO RAC during their March 5<sup>th</sup> meeting for comments.**

**7. Technical Reference Papers**

***a. Recommended Auto-Reclosing***

Mr. Yee presented finalized white paper "Considerations for Transmission Reclosing Practices in the MRO Area." This white paper is currently being considered for presentation by the Minnesota Power System Conference Selection Committee. If the paper is selected, it could be presented during the November, 2009 MIPSYCON.

***b. Thermal ratings of CTs and scaling factors***

Due to the absence of Mr. Mittelsteadt, discussion of this item was tabled.

**8. NERC Activities**

*a. Relay Maintenance Standards drafting*

Mr. Peterson presented the "Protection System Maintenance" draft standard to the PRS. The draft standard is expected to be released for public comment shortly after April of 2009.

**Action Item:**

**Mr. Peterson will release the latest draft standard to the PRS in mid March.**

*b. SPCS*

Chair Bhan presented a brief report on the tasks and activities currently being taken up by the NERC SPCS.

The SPCS is currently in the process of rewriting the relay misoperations standards. These include PRC-003, PRC-004, PRC-012, and PRC-016. Chair Bhan presented some key SPCS notes on the most important topics to be addressed during the rebuilding of these standards.

**9. PRS Activities**

*a. Update on SPS Review Team Activities*

Mr. Jesberg and the attending SPS Review Team members gave a brief update on the activities the group has been involved in. Most importantly, the review team expects to begin the pre-scheduled SPS reviews in late April of 2009.

*b. 2008 Relay Misoperations Final Report*

Mr. Jesberg informed the PRS that the final data request for relay misoperations had been completed. The Misoperations Review Team had completed its review and submitted its requests for follow-ups.

*c. 2008 Relay Misoperations – Lessons Learned*

Overall, the 2008 data collection process showed significant improvement and better results over the 2007 process. Improved data quality and increased penetration by the data request made for a superior and more accurate data set for 2008.

Mr. Peterson relayed the concerns and conclusions raised by the Misoperations Review Team and MRO staff regarding the misoperations review process. Of primary concern was the communications process between the review team and the data representatives.

***The misoperations review procedure, as established by MRO staff, requires that the Misoperations Review Team members conduct all necessary communications with data representatives via the MRO staff.***

**10. Other Business**

No other business was discussed.

**11. Next Meetings**

*a. Establish 2009 Meeting Schedule*

September 1 and 2, 12:00pm – 5:00pm and 8:00am – 12:00pm

**12. Adjourn**

Having no further business, Mr. Raveling adjourned the meeting at 5:05pm on March 4<sup>th</sup>.

Prepared by:

Dan Jesberg, Secretary, Midwest Reliability Organization