

**MEETING MINUTES  
MIDWEST RELIABILITY ORGANIZATION  
PROTECTIVE RELAY SUBCOMMITTEE**

Embassy Suites – Bloomington, MN  
May 22, 2008 – 12:00pm – 5:00pm  
May 23, 2008 – 8am – 12pm

**1. Welcome - Deven Bhan**

Chair Bhan called the meeting of the Protective Relay Subcommittee (PRS) to order at 12:56pm. The following Members and Guests were present:

**Members Present**

Deven Bhan, WAPA, Chair	Don Raveling, MDU, Vice Chair
Dan Jesberg, MRO, Secretary	John Seidel, MRO, Alt. Secretary
Russ Miller, ALT	Keith Orsted, ATC
Mark Peterson, GRE	Ken Birt, MEC
Terry Hopkins, DPC	Ron McIvor, OPPD
Len Yee, SPC	Dede Subakti, (MISO Liaison)
Richard Quest, XEL (PAC Liaison)	

**Members Not Present**

David Bisel, MP	Ding Lin, MH
Steve Mittelsteadt, BEPC (RTC Liaison)	Steve Wadas, NPPD

**Guests Present**

Hoa Nguyen, MDU	Pratap Mysore, XEL
Carol Gerou, MP (via conf. call)	Jeff Laninga, MH (via conf. call)

**TAS Members Present (via conference call)**

Wenchun Zhu, ATC	Terry Torgerson, DPC
Andrew Lucero, MRO	David Diakiw, MH
Dan Belk, WAPA	Dale Catherall, ITC
Dave Kempf, GRE	Peter Schommer, MP
Brian Brownlow, NPPD	

*a. Determination of Quorum*

Secretary Jesberg determined that a quorum was present.

*b. Agenda Additions*

Chair Bhan reviewed the proposed meeting agenda. Items 3(d), 5, 7(c), 9(b), and 9(c) were added to the agenda. The agenda item pertaining to the technical reference paper on thermal overloading was removed due to the absence of Mr. Mittelsteadt. The agenda was also rearranged slightly to accommodate the TAS conference call planned for 1:30pm.

*c. MRO Standards of Conduct and Anti-Trust Guidelines*

Pursuant to Policy and Procedure 4, Chair Bhan reviewed the Standards of Conduct and Anti-trust Guidelines.

**2. Approve Minutes of March 4, 2008 Meeting**

Chair Bhan called for discussion on the minutes of the March 4, 2008 meeting.

***Upon motion duly made by Mr. McIvor and seconded by Mr. Quest, the Protective Relay Subcommittee unanimously approved the minutes of the March 4, 2008 Protective Relay Subcommittee meeting as amended.***

**3. MRO Guideline for NERC PRC-014 Discussion**

*a. Joint TAS Meeting to Review PRC-014 Draft Procedure*

At 1:38pm Chair Bhan determined that a quorum of TAS members was present (via conference call) and called to order the joint meeting. The MRO draft procedure for NERC PRC-014 was discussed line-by-line and changes were made to the document as they were unanimously agreed upon. The review process was completed up through section R1.5.1 before the meeting adjourned at 4:56pm. The following issues were noteworthy.

*Unscheduled reviews to be held at the MRO's discretion*

Questions were raised as to whether or not the MRO should be able to perform unscheduled reviews and whether or not the discussion was within the scope of this document. There were also concerns as to what additional lead time would be required by the SPS owner to complete an unscheduled review.

*References to PRC-012*

Such references could be misleading and should be very carefully used as to not confuse the reader as to which review process criteria or procedural steps should be used.

*The timetable for the review process*

The document should do a better job of laying out the time table in sufficient detail. It should also allow enough lead time for the SPS owner to complete its review before passing it on to the MRO.

*Proposed modifications to an SPS that comes about during or after the review as a result of the review process*

The document should carefully state that a review conducted under PRC-014 cannot be used to supplement or replace the review of a proposed SPS modification. Also, a SPS review conducted using this review process should not be applied, by the MRO, to elicit specific design changes to the SPS. The document should be worded in such a way as to not suggest or imply that the MRO would do this or that the entity should have expectations of such.

*b. Draft Regional SPS Review Schedule*

The PRS chose to postpone reviewing the SPS Review Schedule draft until after further progress has been made on PRC-014-0-MRO.

c. *Discuss RFC SPS Review Coordination Schedule*

Mr. Jesberg briefed the PRS on the discussions that have occurred between MRO and RFC staff regarding a joint effort to review those SPSs owned and operated by ATC.

Mr. Orsted also included that ATC wishes to make MRO the only recipient of its mis-operation report submissions as required by NERC PRC-004 and PRC-016. The justification for this policy is that it would eliminate the potential for the doubling counting of mis-operations by NERC. This policy would also alleviate the need for ATC to devise its reporting methods under the constraint of two different regional definitions of a "mis-operation."

**With no objections from members, the PRS agreed to the mis-operation reporting plan laid out by ATC. Furthermore, MRO staff is to notify RFC of its receipt of ATC mis-operations as they are collected.**

**Approval of the ATC SPS review agreement with RFC was postponed until the PRS has approved the SPS Review schedule. In the meantime, the PRS recommends that RFC continue to review only the ATC SPSs in which it was assigned in the agreement.**

**Action Item:**

- 1) MRO staff will prepare an email detailing the joint agreement between MRO, RFC, and ATC that all ATC mis-operations will be reported to the MRO and only to the MRO effective immediately. This email is to be sent to RFC, ATC, and We Energies as well as to all MRO staff and subcommittees.
- 2) MRO staff will prepare an email updating RFC and ATC on the status of the ATC SPS Review agreement as it is being studied by the PRS.

d. *Participation of Affected Utilities in SPS Review Process*

Mr. Mysore presented to the PRS an issue of concern that not all affected parties are being properly represented during an SPS review.

**The PRS concluded that it is the SPS owner's responsibility to identify all affected parties and to work with the MRO to keep them apprised during the review process. Furthermore, MRO staff is to include any identified affected parties when scheduling meetings and publishing communiqués related to the review process of the affecting SPS.**

**The PRS has defined an "affected party" as an entity that must make a physical change to their system to accommodate a SPSs installation or modification.**

**Action Item:**

- 1) MRO staff shall modify the SPS Review Checklist to include an entry for SPS owner to identify all "affected parties."
- 2) MRO staff will modify PRC-012 to reflect the change to the checklist. The PRS will review the modification during their next meeting.

**4. Chairman's Report**

Chair Bhan attended the RAC meeting on May 21, 2008 to give an oral report of PRS activities. His report included details describing the continued work on a regional procedure for PRC-014, two technical reference papers, and its efforts to review relay mis-operations and SPS per the MRO's responsibilities described in NERC PRC-003 and PRC-012.

Chair Bhan updated the PRS on the recent activities of the NERC-SPCTF. These activities include work on a new PRC standard which will address the reliability of protection systems as well as a review of the PRC standards associated with the documenting of relay mis-operations.

Since the PRS was unable to finish its draft work on PRC-014-0-MRO, Chair Bhan extended and open invitation for members to attend the June 12 TAS meeting to continue the discussion.

Concerns were raised by several members that the Republican National Convention could conflict with the scheduled August 26 meeting. Chair Bhan proposed a possible location change to Duluth, Minnesota. MRO staff also made a proposal to change the meeting location to Brainerd, Minnesota to coincide with the expected change to the RAC's August meeting location.

**5. Update and Discussion on new NERC Relay Maintenance Standard**

Mr. Peterson presented the draft standard to the PRS. This standard is expected to develop into a replacement for existing standards PRC-005, -008, -011, and -017.

Mr. Peterson invited PRS members to forward comments to him by May 30. He will then forward these comments to the NERC SAR drafting team.

**6. Special Protection Systems Review Team**

*a. Update on Recent SPS Review Team Activities (SPSRT)*

Secretary Jesberg presented to the PRS the SPS Review Team log as well as an update on its activities since the March 2008 PRS meeting.

As of April 15, the SPSRT had completed its review of the Fieldon Bypass SPS. It was noted that the Transmission Assessment Subcommittee will complete the retirement review of the Nelson-Dewey SPS during their June 12 meeting.

**7. Mis-Operations Review Team**

*a. 2007 Mis-Operations Wrap-Up Status*

Mr. Jesberg gave an update on the 2007 mis-operations follow-up request. Approximately half of the unresolved mis-operations have been resolved as of the end of the first quarter of 2008.

*b. First Quarter – 2008 Mis-Operations Review*

Mr. Jesberg updated the PRS on the 2008, first quarter mis-operations request. Despite the addition of 18 new companies to the database, all applicable entities were accounted for by the due date. The Mis-Operations Review Team is expected to have completed its review by the end of June, 2008.

Mr. Jesberg noted that the Procedure for PRC-012 does not require applicable entities to report normal SPS operations although it implicitly stated in the instruction sheet for the reporting form.

**The PRS agreed that entities should be reporting both SPS mis-operations and normal operations.**

**Action Item:**

- 1) MRO staff shall modify the MRO procedure for PRC-012 to include wording which states that normal SPS operations are to be reported. The PRS will review this modification during their next meeting.

*c. Report to RAC*

Chair Bhan informed the PRS that the RAC requests an annual mis-operations review summary.

**Action Item:**

- 1) Mr. Birt will draft a summary of the 2007 mis-operations review and work with the review team to finalize it before the end of June 2008. The summary review will be presented by Chair Bhan during the RAC meeting in August.

**8. Technical Reference Paper on Recommended Auto-Reclosing**

Mr. Yee presented to the PRS his latest draft for the proposed whitepaper "Recommended Auto-Reclosing Practices in the MRO Area." The technical paper was discussed and well received by PRS. He also invited PRS members to send him comments on desired modifications to the draft.

**9. Miscellaneous**

*a. PRC-023 [ Beyond Zone 3 Mitigation] Update*

Mr. Raveling reviewed the updated Summary Review Statistics spreadsheet pertaining to the MRO Beyond Zone 3 Mitigation Plan data request performed in 2007. Mr. Raveling suggested that, with the NERC approval of PRC-023, and in anticipation of its approval by FERC, a second, voluntary data request could be conducted by the PRS to continue its assessment of the regional readiness for the standard.

*b. PRC-002 Question: Aggregate Generation*

The PRS reviewed the letter and one-line diagram submitted by Lewis Ross of Muscatine Power and Water. The recommendation agreed upon by the PRS is that MPW should monitor the 161-69kV auto-transformer high-side.

**Action Item:**

- 1) Mr. Raveling shall draft an email on behalf of the PRS detailing its recommendation. MRO staff shall forward it to MPW.

*c. PRC-003 Question: Power Circuit Breakers*

The PRS reviewed the email submitted by Bill Middaugh of Tri-State Generation and Transmission. The PRS agreed that the circuit breaker was a reportable even according to the MRO procedure for PRC-003.

The PRS also concluded that the MRO procedure for PRC-003 is inadequately written regarding the reporting of slow clearing operations and that it does not meet the minimum NERC criteria.

**Action Item:**

- 1) Mr. Raveling shall draft an email on behalf of the PRS detailing its decision regarding TSGT's circuit breaker event. MRO staff shall forward it to TSGT.
- 2) MRO staff shall modify the MRO procedure for PRC-003 so that it states that all slow-clearing operations are to be reported as mis-operations. The PRS shall review this modification during their next meeting

*d. Other Business*

No other business was brought up for discussion.

**10. Miscellaneous**

*a. Scheduled*

MRO staff will work to determine a new location and time for the next meeting of the PRS. Planned future meeting dates and times for the PRS are as follows.

August,	Meeting day and time to be determined
November 13-14,	1:00pm – 5:00pm, 8:00am – 12:00pm

*b. Additional Meetings (if needed)*

No additional PRS meetings were proposed. Chair Bhan proposed that the TAS extend an open invitation to PRS members during their June 12, meeting to continue work on PRC-014.

**11. Adjourn**

Having no further business, Chair Bhan adjourned the meeting of the Protective Relay Subcommittee at 11:52am.

Prepared by:

Dan Jesberg, Secretary  
Protective Relay Subcommittee  
Midwest Reliability Organization

Reviewed by:  
Sandy Humenansky