

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

Holiday Inn Select – Bloomington, MN
March 4th, 2008 – 9:00am – 5:00am

1. Welcome - Deven Bhan

Chair Bhan called the meeting of the Protective Relay Subcommittee (PRS) to order at 9:00am. The following Members and Guests were present:

Members Present

Deven Bhan, Chair, WAPA

Dan Jesberg, MRO, Secretary

Russ Miller, ALT

Mark Peterson, GRE

Ding Lin, MH

Ron McIvor, OPPD

Richard Quest, XEL (PAC Liaison)

Don Raveling, MDU, Vice Chair

John Seidel, MRO, Alt. Secretary

Keith Orsted, ATC

Ken Birt, MEC

Steve Wadas, NPPD

Len Yee, SPC

Members Absent

Terry Hopkins, DPC

Steve Mittelsteadt, BECP (RTC Liaison)

David Bisel, MP

Dede Subakti, MISO

Guests Present

Hoa Nguyen, MDU

Pratap Mysore, XEL

a. Determination of Quorum

Secretary Jesberg determined that a quorum was present.

b. Agenda Additions

Chair Bhan reviewed today's agenda.

After discussions the agenda item (5) was modified to include a vote by the PRS to approve the MRO Procedure for PRC-013 and an agenda item was added to include Mr. Nguyen's presentation on the Scenario Assessment Task Force.

It was also noted that the meeting time originally agreed upon was 8:00am.

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 November 27-28, 2007 Meeting

Chair Bhan called for discussion on the minutes of the November 27-28, 2007 meeting.

Upon motion duly made by Mr. Quest and seconded by Mr. Peterson, the Protective Relay Task Force unanimously approved the minutes of the November 27-28, 2007 Protective Relay Task Force meeting as amended.

3. Chairman's report

Chair Bhan conveyed to attendees the regrets of those members who were unable to attend due to other obligations.

Chair Bhan also informed the PRS that RAC Chair Nguyen may attend the meeting to give a presentation on a proposed Scenario Assessment Task Force (SATF). Mr. Nguyen has stated that there is interest among the RAC that the PRS send a representative to serve on the new task force if it is formed.

Chair Bhan will attend the RAC meeting on March 5, 2008 to give an oral report of PRS activities.

The MRO guideline for NERC PRC-002 has been publicly issued to MRO members and registered entities. Several members voiced concerns that there is confusion in the industry regarding the effective date of the said MRO guideline. Consensus among the PRS members was to republish procedure PRC-002 and emphasize that the established effective date for the guideline is January 15, 2008.

Action:

Secretary Jesberg or Alt. Secretary Siedel to reissue the MRO guideline for NERC PRC-002 to registered transmission owners. The reissue is to emphasize that the guidelines effective date was January 15, 2008.

4. PRC – 023 (BZ3) Update

Vice Chair Raveling updated the PRS on the Beyond Zone 3 mitigation plan data request. The entities that have not yet submitted data include Western Area Power Administration, Saskatchewan Power Company and Minnkota Power Cooperative.

The NERC Board of Trustees has formally approved PRC-023 as a NERC standard. The date of approval was February 12, 2008. Wording within the standard states that applicable entities must comply with the standard by the beginning of the first quarter following FERC approval.

Action:

Vice Chair Raveling to draft a letter for the benefit of transmission owners and protection system owners informing them of the status of NERC PRC-023. The letter is to be finalized and formally sent to applicable entities by MRO staff.

Action:

Chair Bhan to update the MRO-RAC and SPCTF-NERC on the MRO regional status on its compliance with PRC-023.

5. Update on Approval of PRC-013

Secretary Jesberg gave an overview of the current draft of the MRO procedure for PRC-013 and of the SPS database it prescribes. The floor was opened for final comments from PRS attendees.

Several attendees commented on the databases potential future role in providing a documentation base per the requirements of PRC-012 and PRC-014.

Upon motion duly made by Vice Chair Raveling and seconded by Chair Bhan, the Protective Relay Subcommittee unanimously approved the MRO procedure for NERC PRC – 013.

6. Review of Procedure for PRC - 014

Alt. Secretary Seidel reviewed the history of the protective relay group's involvement in drafting a procedure for PRC-014. The latest version of the procedure was drafted by the SPS Review Team in January 2008.

The PRS deliberated on the latest draft presented by Mr. Jesberg (secretary of the SPSRT) in details, made modifications and agreed on a new draft .

The PRS then directed MRO staff to make available the new draft for a joint commenting period to include members of both the PRS and the TAS. MRO staff shall compile the comments and present them to the PRS during the May 2008 meeting.

7. Special Protection Systems Review Team

a. Update on Joint PRS/TAS/MISO SPS Review Team (SPSRT)

Secretary Jesberg presented to the PRS the SPS Review Team log as well as an update on its activities since the November, 2007 PRS meeting.

Projects that the SPSRT has been working on include: reviews of the retirements of the Dewey – Nelson and Stonelake SPS, the first draft of the MRO procedure for NERC PRC-014, and the review of the Fieldon Bypass SPS. Furthermore, the MRO has completed its review of all the SPS presented to it during 2007.

b. SPS Retirement - Dewey-Nelson Retirement

Secretary Jesberg updated the PRS on the status of the SPS Review Team's review of the Dewey-Nelson SPS Retirement. The PRS postponed the approval of the review pending the SPSRT's re-evaluation of the MRO's review procedure regarding SPS retirements.

c. Procedural Review for SPS Retirements Review Process

The PRS deferred the issue of the re-evaluation of the MRO's review procedure regarding SPS retirements to the SPS Review Team.

8. Mis-Operations Review Team

a. 2007 Yearly Review – Summary of 2007 Mis-Operations

Mr. McIvor reviewed the 2007 Mis-operations spreadsheet as it has been filled out by the review team. The review team made a series of small modifications to the spreadsheets and has advised the MRO to make the modifications permanent.

As of present, the review team has identified the need to request follow-up data from data submitters regarding official completion dates of mis-operation mitigation plans.

Action:

Secretary Jesberg to submit, to all reporting entities, the 2007 mis-operations spreadsheet upon its completion. Furthermore, MRO staff shall conduct further data requests to obtain the remaining mitigation plan completion dates as they become available.

b. 2008 Preview – New Team and Updates Spreadsheet

Secretary Jesberg informed the PRS that the 2008 data requests for mis-operations will begin in April. Furthermore, the 2008 review team will be responsible for the review of 2008 mis-operations and SPS operations.

Several minor modifications and updates to the mis-operations and SPS operations spreadsheets will be made by MRO staff in preparation for the 2008 data requests.

9. Technical Reference Paper on Recommended Auto-Reclosing Practices

Mr. Yee presented to the PRS his first draft for the proposed whitepaper "Recommended Auto-Reclosing Practices in the MRO Area." The technical paper was discussed and well received by PRS. The PRS advised Mr. Yee to continue with the work

Action:

Mr. Yee shall submit the draft white paper to the PRS for comment. Furthermore, Mr. Yee shall compile the comments and present them at the next PRS meeting.

10. Technical Reference Paper on Thermal Overload vis a vis Effect on CTs, Relays, Meters RTU Scales

Mr. Mittlesteadt was not in attendance to give an oral report and so this item will be addressed at the next meeting.

11. Miscellaneous

a. PRS Representation on the SATF

RAC Chair Nguyen gave a presentation to PRS on the Scenario Assessment Task Force. The proposed task force would be primarily responsible for developing and executing reliability assessment scenarios that apply to the MRO region. The new group would report to the Reliability Assessment Committee.

b. *PRS Representation on the SATF*

Chair Bhan called upon members of the PRS to volunteer for membership on the Scenario Assessment Task Force, once it has been formed by the RAC. It was pointed out that the installation of wind resources throughout the region has led to a significant increase in the installation of special protection schemes. Therefore a PRS representative may be beneficial in the analysis of wind resource relation projects carried out by the SATF.

12. Miscellaneous

a. *Scheduled*

The PRS agreed change the meeting end time for the August 26th meeting to 4pm. Planned future meeting dates and times for the PRS are as follows.

May 22-23	1:00pm – 5:00pm, 8:00am – 12:00pm
August 26,	8:00am – 4:00pm
November 13-14	1:00pm – 5:00pm, 8:00am – 12:00pm

b. *Additional Meetings (if needed)*

Chair Bhan proposed a possible joint meeting between the TAS and the PRS to discuss the MRO procedure for PRC-014. The details of this meeting will be discussed during the next PRS meeting if the meeting is deemed necessary following the PRC-014 procedure commenting period.

13. Adjourn

Having no further business, Chair Bhan adjourned the meeting of the Protective Relay Subcommittee at 3:22pm.

Prepared by:

Dan Jesberg, Protective Relay Subcommittee
Midwest Reliability Organization

Reviewed by:

Sandy Humenansky
Deven Bhan
Don Raveling
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