

APPROVED MINUTES
Midwest Reliability Organization
Protective Relay Task Force
2774 Cleveland Avenue North, Roseville, MN 55113
October 26th, 2006 – 9:00 AM – 2:40 PM

1. Welcome, Roll Call and Introductions

Hoa Nguyen, Chairman of the Reliability Assessment Committee (RAC), called the meeting of the MRO Protective Relay Task Force (PRTF) to order at 9:01 am. The PRTF is currently an ad hoc group under the RAC and expected to be active for two years. The task force may, however, become a permanent RAC subcommittee or working group in the future. The meeting attendees introduced themselves.

a. Determination of Quorum

The following members, guests, and staff were present:

Members:

Deven Bhan, WAPA, Chairman
Don Raveling, MDU, Vice Chair
Terry Hopkins, DPC
Ding Lin, MH
Ken Birt, MEC
Mark Peterson, GRE
Steve Wadas, NPPD

Andrew Lucero, MRO & Secretary
Rich Quest, XEL, PAC Liaison
Steve Mittelsteadt, BEPC, RTC Liaison
David Bisel, MP

Ron McIvor, OPPD

Members Not Present:

Russ Miller, ALT
Keith Orsted, ATC

Salva Andiappan, MRO, Alt. Secretary

Guests:

Hoa Nguyen, MDU, RAC Chairman

John Seidel, MRO

2. Review Policy and Procedure 4

Mr. Nguyen reviewed the MRO and NERC Committee Membership Policy #4 and the Standards of Conduct and Anti-trust Guidelines.

3. About the Midwest Reliability Organization

John Seidel presented, from the October 11, 2006 NERC RAS PowerPoint presentation, to the PRTF the explanation of the transitions of the Reliability Coordinators (RC) to the RTO and RRO, and the formation of the MRO and its make up. Of major importance is the fact the RC, RTO and RRO are not perfectly coordinated requiring complicated Seams Agreements.

4. **Review of PRTF Charter**

Mr. Nguyen reviewed the PRTF Charter as developed by the RAC. The PRTF requires representation from the various MRO geographical areas and is to give guidance and direction to the MRO staff for completion of the necessary actions. NERC has placed a high priority on adequacy of relays to prevent cascading outages due to relay mis-operations. He stated that the MAPP Pool Committee and Regional Transmission Committee Liaisons on the PRTF need only send in reports and answer any question of the respective Committees without going to their regular meetings.

• **Action Items**

- *John Seidel to contact Ed Weber to confirm Steve Mittelsteadt as the MAPP RTC Liaisons on the PRTF.*
- *Andrew Lucero to correct the PRTF Charter replacing PRWG with PRTF in the Membership section.*

5. **Review MRO Policy and Procedures 2**

Mr. Nguyen reviewed the MRO policy and procedures for reimbursing the travel and out-of-pocket expenses to the PRTF members.

• **Action Item**

- *Barbara Moses to correct address on the expense reimbursement form.*

6. **Appointment of PRTF Chairman and Vice Chairman**

As chairman of the RAC, Mr. Nguyen appointed Deven Bhan as PRTF Chairman and Don Raveling as PRTF Vice-Chairman based upon the unanimous vote support of both by the PRTF..

(Break from 10:20 to 10:35)

7. **NERC Version 0 Standards for System Protection**

Taken from the PRTF Charter, the PRTF will address the following standards and other NERC standards that may apply to protective relaying in future and recommend action items required to the MRO-RAC.

PRC-002- Define Regional Disturbance Monitoring and Reporting Requirements-

PRC-003- Regional Procedure for Analysis of Misoperations of Transmission and Generation Protection Systems.

- PRC-004- Analysis and Mitigation of Transmission and Generation Protection System Misoperations, more discussion to follow in future meetings.

PRC-012- Special Protection System Review Procedure, *this will require approval from the PRTF.*

PRC-013- Special Protection System Database, *this will require approval from the PRTF.*

- PRC-014- Special Protection System Assessment

8. **Potential MRO Standards for System Protection**

This will be addressed by PRTF as future standards are proposed or drafted. Comments are to be sent through the MRO Standards Committee.

9. **(a) Beyond Zone 3- 200 kV and above**

PRTF reviewed compliance to date and approved following action items:

Action Item

MHEB has an incomplete submittal. Ding Lin stated that MHEB will likely make the needed settings changes, but also explained that in some cases the equipment will not allow compliance and the MHEB may request exceptions. MHEB has 70 transmission lines in question Ding will follow up with MHEB management and get back to the PRTF prior to any formal letter reminders.

• **Action Item**

Saskatchewan Power had no response. Ding Lin will make an attempt to contact them as he represents the Canadian area. Andrew Lucero will tack down the original letter and will prepare a formal letter from the PRTF to remind them of their obligation.

• **Action Item**

Minnkota Power Cooperative had no mitigation plan. Andrew Lucero will track down the original letter and will prepare a formal letter from the PRTF to remind MPC of their obligation.

• **Action Item**

Andrew Lucero will find a list of the Reliability Coordinator of each MRO Member and send them all the background information and will in the future make sure that the mailings go to both the RC and the PRTF member.

(b) Beyond Z3: Between 100 kV and 200kV “operationally significant lines”.

The PRTF decided to send a reminder to all TPSOs under MRO to self declare “Operationally Significant Lines” in accordance with MRO-RAC guidelines already made available on March 23, 2006 for the purpose of Beyond Z3 protective relaying evaluations as required by NERC. Andrew Lucero will prepare a formal letter to be sent to all TPSOs

PRTF discussed The NERC /MRO/TPSO timelines for accomplishing the various compliance items.

10. **Timing and Schedule of Standard, Timing of Member Compliance**

- High-level Identification of the PRTF Work
- Timeline Estimate for Those Work Items
- Estimate for the Lifetime of the PRTF

These items will be addressed by PRTF in future

11. **Update on NERC-SPCTF Activities**

Chairman Bhan reviewed a power point presentation explaining these activities.

12. **PRTF Timeline**

- Chairman Bhan explain that in all other regions the PRTF groups have had a permanent role to fill and that the MRO PRTF is at present a Task Force that it will likely become a permanent Working Group.

13. Other Business or Future Agenda Items

- A subgroup comprising of Richard Quest and Mark Petersen was assigned to prepare an initial white paper on the subject of collection, review and storage of relay mis-operations for MRO. This white paper, if available, will be placed before the PRTF for consideration at the next PRTF meeting in December 2006.

14. Next Meeting & Adjourn

The next meeting of the PRTF was proposed to be held on 12/06/06 [1PM-5PM] and 12/07/06[8AM-Noon] at Minneapolis. MRO staff to circulate meeting logistics ahead of time so that PRTF members can make travel arrangements.

Deven Bhan will prepare and circulate agenda notes for this meeting

- **Motion**

Having no further business, Chairman Bhan called for a motion to adjourn the meeting of the Midwest Reliability Organization Protective Relay Task Force at 2:40 PM.

Ken Birt moved to adjourn the meeting and the motion was seconded by Terry Hopkins and approved unanimously.

Prepared and submitted by:

Andrew Lucero, Secretary

Salva Andiappan, Alt. Secretary

MRO Protective Relay Task Force