

**APPROVED MINUTES
MIDWEST RELIABILITY ORGANIZATION
PROTECTIVE RELAY TASK FORCE**

Holiday Inn Downtown – Bloomington, MN
September 24, 2007 – 1:00pm – 5:00pm
September 25, 2007 – 8:00am – 1:00pm

1. Welcome - Deven Bhan

- a. *Determination of Quorum*
- b. *Agenda Additions.*
- c. *Review MRO Policy and Procedure 4*

Chair Bhan called the meeting of the Midwest Reliability Organization (MRO) Protective Relay Task Force (PRTF) to order at 1:00pm CST September 24, 2007.

The following attendees, guests, and MRO Staff were present:

Members:

Russ Miller, ALT	Keith Orsted, ATC
Steve Mittlesteadt, BEP	Mark Peterson, GRE
Don Raveling, Vice Chair, MDU	Ken Birt, MEC
Ding Lin, MH	David Bisel, MP (Tuesday)
Steve Wadas, NPPD	Ron McIvor, OPPD
Deven Bhan, Chair, WAPA	Richard Quest, Xcel

Members Absent:

Terry Hopkins, DPC	Len Yee, SPC
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Guests:

Jason Standing, Xcel (Tuesday)	Pratap Mysore, Xcel
Srinivas Vemuri, Xcel (Tuesday)	

Staff:

Mari Ann Baden	Dan Jesberg
Andrew Lucero, Secretary	John Seidel, Alt. Secretary

- Chair Bhan determined that a quorum was present.
- Chair Bhan reviewed the agenda items for the meeting and called for any additions to the agenda. A presentation by Xcel of a proposed SPS will be added to Agenda Item 7.
- Pursuant to MRO Policy 4, Chair Bhan reviewed the Standards of Conduct and Anti-Trust Guidelines with the Committee and others in attendance.

2. Approve Minutes of August 2-3, 2007 Meeting

Upon motion duly made by Mr. Raveling and seconded by Mr. Lin the PRTF approved the August 2-3, 2007 minutes as written.

3. **Protective Relay Task Force – Protective Relay Subcommittee Charter**
The draft charter was reviewed by the group and changes were made by the members.

Upon motion duly made by Mr. Raveling and seconded by Mr. Miller the PRTF approved the Protective Relay Subcommittee charter as amended at the September 24, 2007 meeting.

Action Item:

The charter, as approved by the PRTF, will be forwarded by Chair Bhan to the Chair of the RAC for approval at their meeting to be held on November 2, 2007.

4. **MH - BZ3 updated submittal for 3 technical exceptions** Don Raveling
Mr. Raveling reported on the replies he has received per the request sent to the MRO members for BZ3 information. Manitoba Hydro has requested three additional technical exceptions.

Mr. Lin explained the requests to the group and fielded questions.

Action Item:

Mr. Lucero and Mr. Raveling will write up the request to Bob Cummings of NERC on Exception 7.

5. **Update on Status of PRTF**

a. RAC Update

Approval process and procedures were discussed from an MRO perspective.

b. MRO Update

A brief review of MRO issues.

John Seidel

c. Dede Subakti was introduced as a non-voting member of PRTF(PRS)

6. **Review and approve the latest drafts on MRO guidelines for PRC 012, PRC 013 and PRC 014**

Ding Lin, Len Yee, Keith Orsted
Chair Bhan proposed to the group that the MRO guidelines for PRC-012, -013, and -014 be written as one document. It was agreed that these would remain as separate guidelines to keep the connectivity to the NERC implied expectation of a "fill-in-the-blank" standards.

Mr. Lin reviewed proposed revisions to PRC-012.

Chair Bhan recessed the meeting at 3:05pm.

The meeting was reconvened at 3:22pm.

The definition of an SPS will be defined by the NERC Glossary of Terms. The MRO process for reviewing SPS submittals was revised per comments given by the group. A template or checklist of information to be submitted would be helpful for owners requesting an SPS review.

Action Item:

Mr. Lucero is to draft a table related to PRC-012, the "SPS Review Check List", for review and editing by the PRTF for the next days meeting.

The remainder of the document changes were reviewed and finalized. Ms. Baden will reformat and the group will review when reconvened on Tuesday, September 25, 2007.

The meeting was recessed at 5:10 until Tuesday, September 25, 2007.
The meeting was reconvened at 8:00am on September 25, 2007.

Chair Bhan reviewed the agenda for the day.

Mr. Lin continued the discussion on PRC-012 and presented the checklist which was drafted to represent the data needed for submission of an SPS for review. The checklist was revised by the group and will be added as Appendix C to the MRO guideline for PRC-012.

Upon motion duly made by Mr. Birt and seconded by Mr. Miller the PRTF unanimously approved the MRO guideline for PRC-012 as amended on September 25, 2007.

Mr. Lin continued with the review and discussion of PRC-013 and PRC-014.

Action Item:

Mr. Lin will make revisions offline and present it to the group at the November meeting.

7. Special Protection Systems

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

Andrew Lucero, John Seidel

Mr. Jesberg, SPSRT Sec. gave an update of the SPSRT activities which included item 7b and the Xcel SPS at Nobles County. Dede Subakti has been elected to be the Chair of the SPSRT.

Mr. Vemuri and Mr. Standing presented the SPS which Xcel would like to put into service in November. The drawings will be reviewed during the SPSRT conference call scheduled for Wednesday, September 26, 2007. During the call, the decision will be made as to whether or not hold a face-to-face meeting to finish the review.

b. Review of ATC's Weston 4 system and Package Requirements

John Seidel

This item was presented by Mr. Jesberg in Item 7a.

c. Definition of SPS for PRC-002-1

Deven Bhan

Mr. Lucero gave an update on the status of PRC-002. It was sent to the RAC for comments and approved.

d. SPS Database Review

Dan Jesberg, John Seidel

- e. *SPS Redundancy question* Andrew Lucero
 - i. MRO TAS comments
 - ii. WECC requirements

Action Item:

Mr. Lucero will present these comments at the November meeting.

8. Mis-operations

- a. *Second Quarter Review* Adam Flink/Dan Jesberg
All MRO companies reported with 20 of 30 being on time.
- b. *Review of revised Mis-Operations spreadsheet* Dan Jesberg
Mr. Jesberg reviewed the misoperations that were sent for the second quarter. Mr. Birt added detail regarding specific misoperations.

Action Item:

Mr. Jesberg will follow up with any misoperations that were to be completed during the quarter.

The meeting was recessed at 10:00am.

The meeting was reconvened at 10:20am.

9. Miscellaneous:

- a. *Auto-reclosing practices in MRO* Russ Miller
Review progress with a short discussion.
- b. *SPCTF Update* Deven Bhan
A maintenance whitepaper was suggested with no volunteers as of yet.
- c. *Thermal rating of transmission lines, scaling factors*
Steve Mittelsteadt, Don Raveling and Russ Miller
Reviewing progress it was agreed that thermal real time monitors are unreliable do to significant differences in wind speeds, making thermal relaying unreliable.
- d. *Significant relay Mis-Operations, if any – technical discussions*
Mr. Quest gave an update on the events of September 18, 2007 which caused a cascading event across the MRO region. Mr. Raveling added details of the related events which occurred in North Dakota, Mr. Mittelsteadt added information on the related WAPA events, Mr. Bissel added information on the related MP events and Mr. Miller added information on the related ALT events.
- e. *PRC standards related other work* Don Raveling, Deven Bhan
PRC-005 is being re-written consistent with the NERC white paper on the subject.
- f. *Other*
Mr. Bissel asked what the direction of the group is to be in the future. If technical discussions are part of the agenda, what topics should be covered?

Action Item:

Mr. Miller will follow up with draft memo for review by the PRTF which would go to the RAC regarding Operating Issues.

10. Next Meeting

November 27-28 (Tuesday-Wednesday) at the Holiday Inn Select.
Future meeting dates

11. Adjourn

Upon motion duly made by Mr. Lin and seconded by Mr. McIvor the PRTF meeting was adjourned at 12:02pm.

Respectfully Submitted

Andrew Lucero PRTF Sec.
Mari Ann Baden MRO Staff