



## FINAL MEETING MINUTES MIDWEST RELIABILITY ORGANIZATION

### Planning Committee

Holiday Inn Select, Bloomington, MN

September 8, 2010 - 8:30 am

#### 1. Call to Order

Chair Mazur called the meeting to order at 8:30am.

#### 2. Determination of Quorum

Chair Mazur asked for introductions from the committee members and guests.

Chair Mazur determined that a quorum was present at 8:33am.

The following PC members, guests, and staff were present:

#### Members:

Hoa Nguyen, MDU

Ron Mazur, Chair, MH

Dennis Florum, LES

Hamish Wong, WPS

Dale Burmester, ATC

Jay Porter, GRE

Dave Rudolph, BEPC (phone)

Gerry Steffens, RPU

Gayle Nansel, WAPA

Mike Wish, GSE

#### Guests:

Alan Burbach, LES

Amr Eldamaty, SPC

Dave Duebner, MISO

Terry Harbour, MEC (phone)

Dan Lenihan, OPPD (phone)

Deven Bhan, WAPA (phone)

#### Staff:

John Seidel

Salva Andiappan

Jennifer Matz

Dan Schoenecker

#### Members Absent:

Kavita Maini, WIEG

### 3. Standards of Conduct and Anti-Trust Guidelines

Mr. Seidel reviewed the Standards of Conduct and Anti-Trust Guidelines with the meeting attendees.

### 4. Consent Agenda

#### a. Approve Meeting Minutes from June 9, 2010 Meeting

*Upon motion duly made by Mr. Burmester and seconded by Mr. Steffens, the Planning Committee unanimously approved the June 9, 2010 Planning Committee meeting minutes as written.*

### 5. Chairman's Report - Ron Mazur

Chair Mazur briefly discussed the highlights from the last MRO Board Meeting. Dr. Edmund Schweitzer, President of Schweitzer Engineering Laboratories, spoke on the benefits and value of replacing analog protection with digital. The Board agreed that an Accelerated Replacement of Protection Systems Program to improve mis-operations should be explored further for the MRO Region. Chair Mazur also highlighted that the Board requested that the Planning Committee produce a SPS guideline and a process on how to determine an SPS and present it at the next Board meeting.

### 6. Planning Committee 2010 Membership

#### a. 2010 Membership

##### i. NERC TIS and ERAG Steering Committee – New MRO Representative

Ms. Matz informed the committee of the special election in progress to elect a NERC TIS MRO representative, and that there were no nominees for the ERAG Steering Committee open seat. In the meantime, Mr. Andiappan stated he could attend the meetings and provide updates to the PC until a replacement is found.

##### ii. MRO Model Building Subcommittee (MBS) – New Member

Chair Mazur asked for a motion to approve Steve Porter of Dairyland Power Cooperative as a new member of the MRO MBS.

*Upon motion duly made by Mr. Nguyen and seconded by Mr. Wong, the Planning Committee unanimously approved Mr. Steve Porter as a new member of the MRO Model Building Subcommittee.*

##### iii. PC endorses Gerry Lane of Manitoba Hydro to attend 9<sup>th</sup> International Workshop on Large-Scale Integration of Wind Power into Power Systems in Quebec City, Canada on October 18 – 19, 2010

Chair Burbach of the MBS explained the purpose for sending Gerry Lane to the workshop. Chair Mazur asked the committee for a motion to approve the expense reimbursement for the conference. The expenses would be reimbursable through MRO per Policy and Procedure 2 of the MRO Manual. The committee requested that the motion state that Mr. Lane shall provide a report back to the PC and MBS on what he learned from the conference.

*Upon motion duly made by Mr. Wong and seconded by Mr. Steffens, the Planning Committee unanimously approved the funding for Mr. Lane to attend the workshop and require he provide a report back to the MRO Planning Committee and the Model Building Subcommittee.*



iv. MRO Protective Relay Subcommittee (PRS) – New Member

Chair Mazur informed the committee that he would like to add this to the agenda. He stated that Chair Bhan of the PRS informed him of PRS's request to induct Mr. Greg Hill of NPPD as a new PRS member. Chair Mazur asked for a motion to approve Mr. Hill as a new PRS member.

*Upon motion duly made by Mr. Steffens and seconded by Mr. Wish, the Planning Committee unanimously approved Mr. Greg Hill as a new member of the MRO Protective Relay Subcommittee.*

7. **SPS Guidelines**

a. Summary of Survey Results

Mr. Seidel explained to the committee how the survey results were developed, compiled, and summarized in the summary provided in the agenda packet.

b. Vote on proposed guidelines

Chair Mazur opened the floor for discussion on the proposed guideline. A number of committee members stressed their concern about the guideline potentially being used by auditors in an audit, which is not the intent, and asked MRO if there were any examples of issues due to SPSs. Mr. Schoenecker expressed that there are a couple of examples, but it takes time from when it is first found to when it can be publicly released as lessons learned. Mr. Schoenecker further stated that MRO would like to have some peer guidance to help members in deciding what an SPS is, before it is discovered through Event Analysis as a violation or undeclared SPS. Chair Mazur asked for a motion to approve the SPS guideline as written.

*Upon motion duly made by Mr. Nguyen and seconded by Mr. Steffens, the Planning Committee rejected the approval of the SPS guideline as written.*

**The committee recessed for a break at 10:08 am.**

**The committee reconvened at 10:30 am.**

Chair Mazur asked the committee for ideas since they could not agree on a SPS guideline. After further discussion, the committee agreed it was necessary to analyze existing schemes to educate themselves on what currently is considered an SPS, and use MRO's SPS database as a place to start. Since the committee agreed, they came to an agreement on a motion and voted.

Motion:

*MRO PC directs staff to prepare a summary of all existing SPSs as contained within the MRO SPS database. The summary will characterize what the scheme does and what condition it is protecting (local vs. widespread, thermal, vs. stability, vs. voltage) and provide the magnitude of the generation runback, if applicable.*

*Upon motion duly made by Mr. Wong and seconded by Mr. Steffens, the Planning Committee unanimously approved the motion as written.*

***Action Item: Dan Jesberg will categorize existing SPSs from the SPS database for the PC to review.***



c. Develop process for PC to use to determine SPS

The committee cannot cover this topic until a SPS guideline is finalized.

**The committee recessed for lunch at 11:50 am.**

**The committee reconvened at 1:05 pm.**

**8. PC and OC: Review and Determine Committee Structures, Subcommittees, and Division of Responsibilities**

a. Review of Old RAC Charter

Mr. Seidel reviewed the bullets of the old RAC charter with both committees.

b. Review of the New PC and OC Charters

Mr. Seidel reviewed the bullets of the PC and OC charters with both committees. Chair McMullen of the OC suggested that OC members consider adding the fourth bullet of the PC charter to the OC charter at their meeting tomorrow. Mr. Seidel informed the OC about the 2010 Winter Assessment due to NERC by September 30. Chair Mazur suggested a PC/OC joint call so the PC could assist the OC with the first assessment, but the PC would be the committee listed on the report. Chair McMullen of the OC agreed with the idea and suggested meeting dates for the joint call. The committee members agreed to have a WebEx joint conference call on September 29. Below, are the action items for the joint conference call.

**Action Items:**

- **Ms. Matz send PC and OC members the meeting invite with conference call information for the September 29<sup>th</sup> WebEx conference call.**
- **Mr. Seidel provide meeting materials to PC and OC members prior to the September 29<sup>th</sup> call.**
- **Mr. Seidel set OC members up with FTP site access and provide past reports submitted.**
- **Ms. Matz will send the OC members the MRO Confidentiality and Conflict of Interest forms to sign.**

c. Existing Organizational Chart

Mr. Seidel reviewed the current committee organizational chart with the meeting attendees, and the committees agreed that the PRS be the only MRO subcommittee to move under the OC.

**9. PC and OC: NERC Assessments**

a. Determine how assessments will be divided between committees

It was mutually agreed by both committees that the LTRA assessment and any future scenario assessments (which perform “what ifs” on the LTRA) would be reviewed and approved by the PC. The seasonal and post-seasonal assessments will be reviewed and approved by the OC.

b. Update on NERC Reliability Assessments

- 2009-2010 Winter post-seasonal (new)

Mr. Seidel briefly highlighted on the reporting process for the assessment, and that it is the first official final report sent to NERC. Mr. Seidel also stated that he would forward both committees the link to view the report once the NERC PC meets next week and approves.



c. Regional Boundaries for Future NERC Assessments

Mr. Seidel stated that there is nothing new to report since the last PC meeting.

d. NERC 2010 Scenario Assessments

- Scenario 1 – Early Retirement of Steam Units followed by Rapid Demand Growth Following Recession

Mr. Seidel stated there is nothing to report since the last PC meeting.

- Scenario 2 – Early Retirement of Coal Units

Mr. Andiappan provided the committee with an update on this scenario. This scenario assessment is expected to be approved by the NERC PC on Sept 14, 2010. MRO Staff will provide a link to the approved version of the document when it becomes available.

**10. Midwest ISO Updates**

Mr. Duebner provided highlights on Midwest ISO's MTEP 10 plan wrap up, MTEP 11 plan cycle starting immediately, Short Circuit Study, Wind Integration plan and scope for a Wind Plan Task Team, and details on the Western Interface Study in progress.

**11. Compliance Committee Activity**

Mr. Eldamaty updated the committee on key items discussed at the Compliance Committee meeting held on September 7. He informed that the Mid Continent Compliance Forum (MCCF) is meeting next week to discuss their next workshop scheduled for December 2. The MCCF is proposing an online forum for industry contacts to use as an avenue to share their experiences. He also highlighted that the Compliance Committee discussed CIP certification to be scheduled for January and July of 2011. The next committee meeting is being held on November 16, 2010.

**12. Standards Committee Activity**

Mr. Steffens informed the committee about the Standards Committee's change in scope. MRO would like to use the Standards Committee as an avenue to better educate stakeholders on how to be compliant by providing non-binding guidance. The Standards Committee is in the process of withdrawing the five regional standards, so the focus going forward could be on NERC Standards only.

**13. Subcommittee and Task Force Reports**

a. Generator Testing Review Task Force (GTRTF)

The Task Force had nothing new to report.

b. Model Building Subcommittee (MBS)

Highlights of Mr. Burbach's report to the committee included activities of the MBS, the addition of Mr. Porter as a new member, progress of the 2010 and 2011 Series Development, and topics the committee will be discussing on the 2011 Series.

*Ms. Matz will attach Mr. Burbach's report to the meeting minutes.*

c. Protective Relay Subcommittee (PRS)

From Mr. Bhan's report, Chair Mazur updated the committee on the current PRS activities. The report discussed the PRS meeting on August 25 – 26, 2010, which they modified the protection misoperation data submission spreadsheet to include more information, continued progress on developing a technical white paper on Out-of-Step Protection practice in the region, and reviewed misoperations and special protection schemes. Ms. Matz forwarded Mr. Bhan's report to the Operating Committee to review at their first committee meeting on September 9.

i. Subcommittee report

ii. Special Protection Systems Review Team

d. Resource Assessment Subcommittee (RAS)

The RAS had nothing new to report since the last PC meeting.

e. Scenario Assessment Task Force (SATF)

The SATF had nothing new to report since the last PC meeting.

f. Transmission Assessment Subcommittee (TAS)

Chair Mazur informed the committee to refer to agenda item 13.f. for Mr. Torgerson's update.

**14. Eastern Interconnection Reliability Assessment Group Reports**

a. ERAG Management Committee

Mr. Andiappan provided highlights from his report provided in the agenda packet under agenda item 14.a.

b. Multiregional Modeling Working Group (MMWG)

Chair Mazur informed the committee to refer to agenda item 14.b. for the MMWG update.

**15. NERC Reports**

a. Discussion of NERC Report Submittals

Chair Mazur informed the meeting attendees that some MRO representatives on NERC Committees are not providing a report after attending the meetings. Chair Mazur suggested that MRO send out a notice to the current MRO representatives informing them about what committee they now report to, and clarify the expectations of providing a report.

**Action Item: MRO send a notice to all MRO representatives on NERC Committees, identifying what MRO Committee they now report to, and provide clear expectations of submitting reports after attending NERC meetings.**

b. Division of NERC Reports between PC and OC

The committees reviewed the NERC reports to determine what committee the MRO representatives would now report to. Below is the breakdown of what the committees agreed upon.

Planning Committee

- Data Coordination Working Group
- Demand Response Data Task Force
- Load Forecasting Working Group
- Planning Committee
- Reliability Assessment Subcommittee (PC is primary)
- Resource Issues Subcommittee
- Transmission Issues Subcommittee

Operating Committee

- Operating Committee
- Operations Reliability Subcommittee
- Reliability Assessment Subcommittee (OC is secondary)
- Reliability Metrics Working Group
- Resource Subcommittee
- System Protection Control Subcommittee

c. Reports

i. Data Coordination Working Group (DCWG)

There was nothing new to report since the last PC meeting.

ii. Demand Response Data Task Force (DRDTF)

The group did not meet since the last PC meeting; therefore, there is nothing new to report.

iii. Load Forecasting Working Group (LFWG)

There was nothing new to report since the last PC meeting.

iv. Operating Committee (OC)

Mr. Larson's report is included in the Agenda Packet under item 15.c.iv. Ms. Matz forwarded Mr. Larson's report to the Operating Committee members for their first meeting tomorrow since this report will now be under the OC.

v. Operations Review Subcommittee (ORS)

No report provided.

vi. Planning Committee (PC)

Mr. Burmester's report is included in the Agenda Packet as agenda item 15.c.vi.

vii. Reliability Assessment Subcommittee (RAS)

Mr. Nguyen's report is included in the Agenda Packet as agenda item 15.c.vii.



- viii. Reliability Metrics Working Group (RMWG)  
Ms. Elsenpeter's report is included in the Agenda Packet under agenda item 15.c.viii.
- ix. Resource Issues Subcommittee (RIS)  
No report provided.
- x. Resource Subcommittee (RS)  
Mr. Bilke's report is included in the Agenda Packet under agenda item 15.c.x.
- xi. System Protection and Control Subcommittee (SPCS)  
Mr. Quest's report is included in the Agenda Packet under agenda item 15.c.xi.
- xii. Transmission Issues Subcommittee (TIS)  
Mr. Andiappan's report is included in the Agenda Packet under agenda item 15.c.xii.

**16. Other Business**

- a. Review work plans/charters of subcommittees who report to the Planning Committee  
Chair Mazur proposed utilizing the next meeting to review work plans of the subcommittees that report to the PC.

**17. Next Meetings**

<u>Date</u>	<u>Group</u>
September 23	MRO Board of Directors meeting
November 17	Planning Committee meeting
December 2	MRO Board of Directors meeting

**18. Adjourn**

Having no further business, Chair Mazur made a motion to adjourn the meeting at 3:13 pm.

Upon motion duly made by Chair Mazur, the Planning Committee unanimously approved to adjourn the meeting.

# ATTACHMENT A

## MODEL BUILDING SUBCOMMITTEE REPORT

Date: September 8<sup>th</sup>, 2010  
To: MRO Planning Committee (PC)  
From: Alan Burbach, Chairman MRO Model Building Subcommittee  
Re: MRO 2010 & 2011 Series Models

The Model Building Subcommittee (MBS) held its last face-to-face meeting on June 3<sup>rd</sup>, and has also scheduled face-to-face meetings on September 9<sup>th</sup> and October 28<sup>th</sup>.

### MBS MEMBERS

Adam Flink, MRO, Secretary	Rao Konidena, MISO, Liaison
Laura Elsenpeter, MRO, Alt. Secretary	Holli Krizek, WAPA
Alan Burbach, LES, Chairman	Gerry Lane, MH
Dan Burns, CIPCO, RTC Liaison	Kerry Marinan, ATC
Luke Erichsen, MEC	Wayne Roelofs, GRE
Wayne Haidle, BEPC, Vice Chair	Kristian Samoila, SPC
Justin Jorgensen, ITC	Jason Espeseth, XEL

### **MBS Membership**

Dairyland Power Cooperative (DPC) has requested that Mr. Steve Porter join the MBS as a Wisconsin Area representative on the MBS.

**Action Requested:** PC ratify Mr. Steve Porter to the open seat as a Wisconsin Area representative on the MBS.

### **2010 Series Development**

The steady-state power flow models were completed and posted to the MRO EFT site on July 7<sup>th</sup>. The power flow data for the phase 1 submittal to the ERAG Multi-regional Working Group was made according to the schedule on July 9<sup>th</sup>. However, work continues on developing the dynamic models.

### **2011 Series Development**

MRO and MISO staffs have completed a "Scope of Work" document for the upcoming MRO 2011 Series model development. Highlights of that document are:

- MISO will be retained as the developer of the MRO power flow models using the MISO MOD, PTI software.
- Approximately sixteen (16) models will be developed (see list below).
- The proposal is to build the models based on PTI PSS/E Version 32.
- MISO staff will perform power flow screening and benchmarking.
- MRO goal is to keep the contract costs under \$27,550.

## ATTACHMENT A

The MBS and MISO have agreed to the following list of sixteen (16) models to build in the 2011 Series. Thirteen of the sixteen models are required by the ERAG MMWG, and three are unique models for the MRO.

2012 Spring Light Load  
2012 Spring Peak  
2012 Summer Peak  
2012 Summer Shoulder 70% Peak  
2012/13 Winter Peak

2013 Spring Peak  
2013 Summer Peak  
2013 Fall Peak  
2013/14 Winter Peak

2017 Spring Light Load  
2017 Summer Peak  
2017 Summer Shoulder 70% Peak (unique MRO model)  
2017/18 Winter Peak

2022 Summer Peak  
2022 Summer Shoulder 70% Peak (unique MRO model)  
2022/23 Winter Peak (unique MRO model)

The MBS and MISO are waiting for the ERAG MMWG to decide on the PTI PSS/E version they will use in the MMWG 2011 Series. The MMWG will likely move to PSS/E Version 32, but have not fully committed to that version.

The MBS will be discussing the following topics for the 2011 Series.

- Communication with data reps regarding solution issues that may require disconnecting equipment during the solution process. This topic includes such issues as changes to the external data, turn-around time from the data reps, changes must be made in MOD and not PSS/E, and impacts to the schedule.
- Is there value in a preliminary MOD Project approval, and then create the unsolved models for review? The goal is to identify topology errors and fixes before the Pass 1 models are posted for review.
- Is there value in submitting a workbook (i.e., load, losses, generation, and transaction data) by area instead of by owner? The goal is to improve coordination of data and reduce the number of model passes necessary before final models are posted.
- MRO/MMWG Policy on Classical Representations

Submitted by:  
Alan D. Burbach  
Model Building Subcommittee Chairman



# Activity Report Protective Relay Subcommittee (PRS)

Deven Bhan  
Sept. 3, 2010



# Protective Relay Subcommittee Report September 2010

- PRS met on August 25 – 26, 2010 in Minneapolis.
  - Meeting Highlights
    - The SPS Review Team provided an update of the SPS review activities in the last quarter. The MRO five year periodic SPS review is on schedule as previously planned
    - As initiated by the MRO-BOD “Asset Replacement Program” proposal, the PRS was tasked to conduct a more detailed evaluation of the protection misoperations in the region and possibly develop a protection replacement benchmark strategy



# Protective Relay Subcommittee Report September 2010

- The group discussed and modified the protection misoperation data submission spreadsheet to include more information required by the new initiative as stated above
- PRS is in the process of developing a technical white papers on Out-Of-Step Protection practice in the region
- Other ongoing routine work of PRS such as review of misoperations and review of special protection schemes are proceeding per schedule



# Protective Relay Subcommittee Report September 2010

- Any questions regarding this report, please contact Deven Bhan (303)981-1336 or Ding Lin (204)487-5416

