

**MEETING MINUTES  
MIDWEST RELIABILITY ORGANIZATION  
Model Building Subcommittee**

Radisson Hotel Duluth Harborview, Duluth MN  
August 26<sup>th</sup>, 2008 – 1:00 PM – 5:00 PM  
August 27<sup>th</sup>, 2008 – 8:00 AM – 12:00 PM

**1. Call to Order**

*Chairman Burbach called the meeting to order at 1:00pm*

**2. Determination of Quorum**

*The following members and guests were in attendance at the meeting:*

*Alan Burbach, LES – Chairman*

*Dan Custer, MEC – Vice Chair*

*Adam Flink, MRO – Secretary*

*Justin Jorgensen, ITC*

*Kerry Marinan, ATC*

*Hamish Wong, WPS*

*Wayne Roelofs, GRE*

*Srinivas Vemuri, XEL*

*Dustin Betz, NPPD*

*Wayne Haidle, BEPC*

*Gerry Lane, MH*

*Holli Krizek, WAPA*

*Kristian Samoila, SPC (on the phone)*

*Loren Mayer, MISO (on the phone)*

*Garrick Nelson, Transerv – Guest*

*Hoa Nguyen, MDU – Guest (August 27<sup>th</sup> only)*

*Randy Oye, XEL – Guest (August 27<sup>th</sup> only)*

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

*The MBS reviewed the Standards of Conduct and Anti-Trust Guidelines.*

**4. Consent Agenda**

- a. Approve Meeting Minutes from May 22<sup>nd</sup>

*The MBS reviewed the meeting minutes from May 22<sup>nd</sup> and voted to approve the minutes upon motion duly made by Gerry Lane and seconded by Kerry Marinan.*

- b. Approve Meeting Minutes from June 19<sup>th</sup>

*The MBS reviewed the meeting minutes from June 19<sup>th</sup> and made minor changes. The MBS voted to approve the minutes, as amended, upon motion duly made by Dan Custer and seconded by Hamish Wong.*

- c. Action Item: MBS approve Mr. Jorgensen to replace Mr. Shuvo as an Iowa Area representative on the MBS.

*The MBS voted to approve Mr. Jorgensen upon motion duly made by Gerry Lane and seconded by Dan Custer.*

**5. Chairman's Report**

*Report to RAC: The report addressed a delay in releasing the final models, and identified problems in the model series as being caused by data errors in the initial data submittal and inadequate review of the models. These problems are mostly due to generation, load and transaction mismatches between the models and the spreadsheets.*

## 6. 2008 Series Update

### a. Review the status of:

#### 1. Power flow models

##### a. Why was the model series so late? How do we prevent it from happening again?

##### 1 Do we need to develop a plan as to what data needs to be reviewed and confirmed by the Data Rep in each set of preliminary models?

*Several members agreed instructions need to be included with data releases to make the data reps accountable for their reviews.*

*MOD improvements:*

- *Suggestion: no more changes to MOD, too confusing*
- *Need to be able to change profiles in MOD, not have to delete and upload.*
- *Need better auditing capability in MOD to flag errors like transaction mismatches.*

##### b. Do we still build final models from MOD for comparison?

*Many recent changes may not have been included in MOD. Most of these recent changes have been generation profile changes. The MBS discussed whether MOD should be updated with profile data or topology changes only.*

**Action item:** *Loren Mayer to use MOD Assist to compare data from MOD (09sp11 case) to the final 08 series 09sp11 case for data reps to review.*

##### c. Complete area appraisals and series documentation.

**Action item:** *MBS members to complete area appraisals by September 12 and send them to Adam Flink to be included in the 08 series model documentation.*

#### 2. Dynamics

##### a. Tasks to be completed to wrap up model series?

*Final powerflow models need to be provided to Lynn Hecker (MISO) for dynamics.*

**Action item:** *Adam Flink to finish applying idevs to the model series and post on the FTP by September 3, 2008 for Lynn Hecker to perform dynamics updates.*

## 7. 2009 Series Development

### a. Approve list of models to be developed

*The group made one correction to the model series provided. The MBS approved the list as amended upon motion by Dan Custer and seconded by Gerry Lane.*

### b. Approve PSS/E version (MRO and MISO must agree by June 30<sup>th</sup>).

*Gerry Lane made a motion to suggest to the MMWG that they should not upgrade to PSSE version 31. The motion was seconded by Hamish Wong and approved by the MBS. The MBS will postpone the decision whether to build the 09 series MRO models in version 30 or 31 until after the MMWG decision is made.*

**Action item:** *Kerry Marinaran to make the suggestion to the MMWG that they do not upgrade to PSSE version 31 for the 2009 series.*

### c. Approve MISO Training October 29<sup>th</sup>?

*The MBS decided to change the MBS meeting date to October 29<sup>th</sup> to accommodate a training session on October 28<sup>th</sup>. The training on the 28<sup>th</sup> will consist of a morning session for new users (and any experienced users who would like a refresher) and an*

- afternoon session for all available MOD users that will include material on MOD Assist, new MOD features and possibly a session on using the improved transaction spreadsheets.*
- d. Items to be approved at October 29<sup>th</sup> meeting.
    - 1 Review model building schedule  
*The group reviewed the schedule and adjusted most of the dates. The updated schedule includes coordination of transactions and region-wide balancing at an early stage in the model build.*
    - 2 Review spreadsheet to track model building progress and reviews  
**Action item:** Adam Flink to review the Compliance Tracking Spreadsheet with MRO Compliance Dept. and bring any changes to the October MBS meeting for approval.
    - 3 Updates to the MOD base case including fixing data issues.  
**Action item:** Adam Flink and Kerry Marinar to create a project file to correct MMWG-NERC compliance issues in MOD.
  - e. Do we run ACCC contingencies again (2010, 2015, 2019 SUPK, 100kV and above, for ACCC testing)?  
*Preference was to run ACCC on the three summer peak pass2 cases.*
  - f. Review spreadsheet approach to balancing load-generation and calculating the Desired Net Interchange
    - 1 Discuss two methods for applying an area number to the loads  
*There is no change; both methods will still be used.*
    - 2 Provide Data Reps a Python script for checking PSS/E models  
**Action item:** Loren Mayer to send python files to the MBS for review. Any questions should be directed back to Loren.

*Suggestions for spreadsheet:*

- Drop down lists for Company and Area fields (transaction tab).
  - Losses – plug in default 1.8% of load with option to overwrite
  - Instructions tab
  - Require integers on transaction tab
  - Change totals tab to indicate “yes” if total is less than 1 MW
  - **Action item:** Adam Flink to modify the spreadsheet with the suggestions above. The MBS will review the modified sheet at their October meeting.
  - **Action item:** Adam Flink to create a JOU tracking spreadsheet to be reviewed at the October MBS meeting.
  - It was suggested that MRO includes a spreadsheet training session following MISO MOD training in October.
- g. Review process flow chart  
**Action item:** Loren Mayer to update the process flow chart based on MBS feedback and send to MBS for review.
    - 1 MISO wants to develop each preliminary set of models directly from MOD, thereby, eliminating PSS/E Idev updates.  
*This item was not covered in the meeting*
  - h. Review Data Request.  
*Documents listed in the Data Request will need to be updated:*
    - Update MODAssistTutorial
    - Update MOD-MRO-Data-Submitter-Document
    - Delete UFLS section
    - Add instruction to confirm data submittals to MRO staff

- *Compare Data Screening section (Appendix B) with MMWG compliance checks, possibly replace.*
- **Action item:** *Adam Flink and Alan Burbach to make preliminary changes to Data Request and send to MBS by October 1.*
- **Action Item:** *Gerry Lane to make preliminary changes to MOD-MRO-Data-Submitter-Document and issue for MBS review prior to the October meeting.*

i. MDU BA conversion

*Wayne Haidle and Hoa Nguyen brought up this item. MDU is in the process of becoming a Balancing Authority (BA), they are currently part of the WAPA (652) BA. The MBS discussed the modeling impacts of this conversion. MDU would most likely use their current Owner number (661) as their new Area number.*

**Action item:** *Wayne Haidle, Holli Krizek and Shawn Heilman (MDU datarep) to investigate the details of this conversion process and update the MBS in October.*

## 8. MRO Model Building Manual

a. Generator Pmax/Qmax setting in models

*Gerry Lane presented his document (gen-capability) to the MBS. The MBS was in agreement that generator capability curve data should be collected and made available with the final models.*

**Action item:** *MBS members to send comments to Gerry Lane regarding the gen-capability document. The document will then be merged into the MBS Manual which will be approved by the MBS in October.*

b. Data Dictionary

**Action item:** *Adam Flink to send a data request to collect long bus names from data reps.*

c. Request that Lynn Hecker (MISO) review the user model section of the manual and mark up based on her experience building MRO dynamic models.

**Action item:** *Gerry Lane to review the User Model section of the latest dynamics documentation and provide a draft to Lynn for development of the 2008 series documentation..*

**Action item:** *Gerry Lane to identify MRO User Models for which there is currently no documentation. Owners of these models will be assigned at the October meeting to provide necessary documentation.*

## 9. Other Business

a. How do we handle our list of desired enhancements to MOD?

*It was agreed the MBS should review the latest list of enhancement ideas. One additional idea was to include line reactors in a profile to allow switching status for a case.*

*The MBS noted PTI has only been communicating with MOD license holders, such as MISO.*

**Action item:** *Loren Mayer to check into what is the best way for MRO data submitter comments to reach PTI.*

b. MISO and SPP are working to have transaction tables available in MOD.

*Loren Mayer indicated that MOD transaction table should be available by the end of the year. He is setting up a meeting in September with MISO Carmel staff and PTI to discuss this upgrade.*

*Because of the uncertainty to have this in MOD for 2009 Series development, this is considered an alternative to the proposed MRO spreadsheet and would be used in parallel with that tool.*

## 10. UFLS Data Request

*Adam Flink will put together a data request for UFLS data and send it to the MBS for review before sending to UFLS contacts.*

## 11. Reports

### a. WGMTF – Randy Oye

*WGMTF chair Randy Oye gave a report from the WGMTF:*

- *Chairman Burbach appointed Gerry Lane as Vice Chair of the WGMTF to replace Hari Singh.*
- *The WGMTF will be meeting for the last time in October, prior to the MBS meeting.*
- *The WGMTF is collecting historic hourly wind generating data throughout the region in an attempt to quantify recommended wind generation levels in the various cases of the model series.*
- *The WGMTF will discuss whether data representatives ‘must’ model the recommended level of wind generation in each case if this means turning off base loaded units to accommodate the wind generation.*
- ***Action item:** Randy Oye/Gerry Lane to send current version of Wind Manual to the MBS for review.*

### b. ERAG MMWG – Kerry Marinan

*Kerry Marinan reported that the Data Set I MMWG models have posted for review.*

*There are some complicated interchange issues with SPP that are being resolved.*

## 12. Next meeting

### a. WGMTF - October 21-22

### b. MISO/MOD training – October 28<sup>th</sup>

### c. MBS - October 29<sup>th</sup> – *changed from 10/28 to accommodate MOD training*

### d. RAC – August 27-28<sup>th</sup>, November 12<sup>th</sup>

## 13. Adjourn

*Upon motion duly made by Hamish Wong and seconded by Dan Custer, Chairman Burbach adjourned the meeting at 11:33am, August 27<sup>th</sup>.*