

MEETING MINUTES
MIDWEST RELIABILITY ORGANIZATION
Model Building Subcommittee

Holiday Inn Select, Bloomington, MN
October 29th, 2008 – 9:00 AM – 4:00 PM

1. Call to Order

The meeting was called to order at 9:00am

2. Determination of Quorum

The following members and guests were in attendance

Wayne Haidle, BEPC
Holli Krizek, WAPA
Loren Mayer, MISO
Hamish Wong, WPS
Kristian Samoila, SPC
Justin Jorgensen, ITC Midwest
Gerry Lane, MH
Dave Dieser, MISO
Adam Flink, MRO Staff (Secretary)
Alan Burbach, LES (Chair)
Srinivas Vemuri, XEL
Jason Hofer, NPPD
Dustin Betz, NPPD
Dan Jesberg, MRO Staff (Alt. Secretary)
John Seidel, MRO Staff
Rao Konidena, MISO Staff
Kerry Marinan, ATC
Rajnish Chauhan, MISO Staff
Wayne Roelofs, GRE
Randy Oye, XEL (WGMTF Chair)
Dan Custer, MEC (Vice Chair) (Phone)

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 August 26th

The MBS made a few minor corrections to the minutes.

Upon motion made by Gerry Lane (MH) and seconded by Hamish Wong (WPS), the minutes from August 26th, 2008 were approved as amended.

5. Chairman's Report

- MBS approved motion (via email vote) to make MOD base case review mandatory
- NPPD and OPPD moving to SPP, request to use current bus numbers in SPP models

6. 2008 Series Update

a. Wrap-up of:

1. *Power flow*

Preliminary models are posted. They will be finalized after dynamics update ideas from MISO/Powertech are applied.

2. *Dynamics*

Action item: MISO staff to make sure that Lynn Hecker (MISO) has all of the dynamics updates that she needs to complete the dynamics package.

Gerry Lane (MH) suggested that the dynamics models should be reviewed by the data reps and checked for flat start capability.

MISO staff indicated that dynamics models should be available during the week following the MBS meeting.

Kerry Marinan (ATC) informed the group that MISO/Powertech would not be including the updated ATC dynamics data in the 2008 MRO model series. Powertech informed ATC/MRO that the updated ATC dynamics data would be included in the 2008 ERAG MMWG model series.

Action item: Adam Flink to post preliminary dynamics models for the MBS to review before posting as final.

3. *Area appraisals and series documentation*

All area appraisals have been submitted to Adam Flink. They will be compiled into the 2008 model series documentation and posted with the final models.

4. *Use of MOD Assist to compare data from MOD (09sp11 case) to the final 08 series 09sp11 case for data reps to review.*

The MBS agreed that no further review of the base case is necessary.

Action item: Adam Flink to forward an email to the data reps confirming that they need to review the posted base case.

All data reps except for WPPI confirmed that they reviewed the MOD base case.

Action item: Adam Flink and Alan Burbach to follow up with WPPI to determine how their data will be modeled.

7. **2009 Series Development**

a. *Review approved list of models to be developed.*

1. *Approve MMWG models to use for external areas.*

A motion was made by Gerry Lane (MH) to approve MMWG cases 9W, 10S, 14S, and 14W as the externals for MRO models in the 09 series. The motion was seconded by Dan Custer (MEC) and was approved by the MBS.

b. *Approve PSS/E version [report from Kerry on MMWG meeting]*

Kerry Marinan reported that the MMWG decided to use PSSE version 30.3. Upon motion made by Kerry Marinan and seconded by Wayne Haidle, the MBS approved the use of PSSE version 30.3 for the 2009 series.

c. *Review and approve model building schedule.*

The MBS made several changes to the model building schedule. The schedule will be approved by the MBS via email prior to the data request being sent out.

d. *Review:*

1. *Review process flow chart*
Action item: Loren Mayer (MISO) to make changes to the MISO process flow chart document and send to the MBS.
 2. *Status of MOD Scheduled Transactions and reports through MOD*
Loren Mayer gave an update on the MOD functionality for collecting transaction data and generating reports. The functionality is not yet incorporated into MOD but should be in place by the start of the 2009 model build. Due to uncertainty regarding the performance of this new functionality, the MRO will continue to use a spreadsheet based approach to coordinating transactions and setting area interchange (next item).
 3. *Review spreadsheet tracking model building progress*
Action item: Adam Flink to send spreadsheet out for review of data reporting responsibilities.
 4. *Review Joint Owned Unit (JOU) tracking spreadsheet*
Action item: Adam Flink and Alan Burbach to review the 2007 series JOU sheet and update it for the 2009 series.
- e. *Discuss approach used to update the MOD base case, and answer any questions.*
The MBS agreed that the MOD base case update worked well and should be included in future model building series.
- f. *ACCC contingency analysis.*
1. *Run ACCC contingency analysis on 2011, 2015, 2020 SUPK, 100kV and above.*
 2. *Run on Pass 2*
- g. *Review generation – load balance and transaction spreadsheet – Demo by Adam.*
Action item: Adam Flink to create “instructions” tab and send spreadsheet to the MBS for review and trial.
- h. *Comment on Python script for checking PSS/E models.*
To be sent to data reps separately from data request package.
- i. *Review and comment on Data Request cover letter and data package*
Cover Letter:
Action item: Adam Flink and John Seidel to come up with a wording change regarding the requirement of submitting Wind Generation data.
Action item: Gerry Lane and Dan Custer to provide comments on the Cover Letter
- Data Request Package:
Changes to be made by MBS via email
Action item: Gerry Lane to update Data Submitter’s manual based on information learned at October 28 MOD training provided by MISO.

8. Other Business

- a. *NPPD and OPPD joining SPP model building.*
 1. *NPPD/OPPD become part of the external data*
 2. *How do we model generation, loads and transactions etc.?*

3. *Use of MMWG models? Scheduled updates of these models?*

The MBS discussed the issue of the Nebraska companies joining SPP and some of the potential impacts to the MRO model building process, but came to no conclusions regarding changes to the process. It was suggested that issues will be dealt with as they come up.

b. *MDU Load Balancing Authority – Wayne Haidle*

c. *Data dictionary*

Action item: Adam Flink to compile results from data dictionary request and post with the models.

d. *User models – Gerry to identify MRO User Models with no documentation. Owners will be assigned to provide necessary documentation.*

Gerry Lane provided a list of user models that lack documentation.

Action item: Gerry Lane to send out the list for area reps on the MBS to review. Area reps are to identify any user models that they have ownership of.

e. *Review the MRO list of desired enhancements to MOD – tabled*

f. *ITC Midwest request to model 34.5kV system*

Justin Jorgensen brought a request from ITC to include their 34.5kV system. This request was previously turned down by the MBS via email vote following a conference call on February 7, 2008. This request was also rejected by the MMWG in their meeting on April 10, 2008.

As there is no additional supporting information for the modeling of the 34.5kV system, the MBS still does not approve it.

The MBS suggested several alternatives for ITC to create cases that would include their 34.5kV system. The MBS suggested ITC first pursue approval by the MMWG.

Midwest ISO staff indicated that there was a way for ITC to model this data in the MOD but it required two sets of data that would be used independently. This would cause additional work for ITC and the projects would still have to be maintained accurately between both sets of data. ITC staffs understood this but were not necessarily ready to make that kind of commitment.

9. MRO Model Building Manual

a. *Generator Pmax/Qmax setting in models*

The group reviewed the suggested addition to the Model Building Manual.

10. Reports

a. *WGMTF – Randy Oye*

The MBS discussed at length the recommended dispatch of wind generation in the models. Srinivas Vemuri is completing analysis of historical wind farm data to be included as a new Appendix in the Wind Generator modeling manual.

Action item: Gerry Lane to complete the update of the Wind Generator modeling manual and issue to the MBS for approval as a reference document for the 2009 Model Series build.

Action item: Kerry Marinaran to forward the Wind Generator modeling manual (particularly MRO dispatch info) to SPP.

A motion was made by Gerry Lane to have the gen ID in the MRO models contain a 'W' for all wind generators. The motion was seconded by Kerry Marinaran and was approved by the MBS.

Action item: MBS to update the Modeling Building manual as noted above for release as a reference document for the 2009 Model Series build.

1. *Motion to terminate the WGMTF*

Upon motion made by Wayne Haidle and seconded by Holli Krizek, the MBS voted to terminate the Wind Generator Modeling Task Force.

b. *ERAG MMWG*

Kerry Marinan gave an update from the ERAG MMWG meeting October 28, 2008. Highlights included the following:

- Version of PSSE
 - Will be version 30.3
 - Kerry indicated that the ERAG/MMWG may skip version 31 and go to 32 in the future.
- Add bus numbers to tie line list
- No issue with NPPD and OPPD using current bus numbers
- Add NPPD and OPPD to tie line list
- UFLS question – sent to MC
- May 4-8 PSSE user's group
- Winter study
- EIA codes in Data Dictionary – not extremely important
- Request that DPC split up six diesel units in model
- Regions must submit interchange schedules even if there are no changes

11. Next meeting

a. *MBS*

No date is scheduled at this time. The MBS will wait until the RAC establishes its 2009 schedule before setting meeting dates.

b. *RAC – November 19th*

12. Adjourn GL-HW

Upon motion made by Gerry Lane (MH) and seconded by Hamish Wong (WPS), the meeting was adjourned at 4:00 pm.