

MEETING MINUTES
MIDWEST RELIABILITY ORGANIZATION
Model Building Subcommittee

Holiday Inn Select, Bloomington, MN
October 27th, 2009 – 9:00 AM – 4:00 PM

1. Call to Order

Chairman Burbach called the meeting to order at 9:00am.

2. Determination of Quorum

The following members and guests were in attendance:

Wayne Haidle, BEPC (Vice Chair)

Luke Erichsen, MEC

Rajnish Chauhan, MISO (Guest)

Loren Mayer, MISO (Guest)

Salva Andiappan, MRO (Guest)

Laura Elsenpeter, MRO (Alt. Secretary)

Justin Jorgensen, ITC

Holli Krizek, WAPA

Alan Burbach, LES (Chair)

Adam Flink, MRO (Secretary)

Clayton Hood, CBPC (Guest)

Kerry Marinan, ATC

Jason Espeseth, XEL (Guest)

Srinivas Vemuri, XEL

Larry Brusseau, MAPPCOR (Guest)

Wayne Roelofs, GRE

Gerry Lane, MH

Lewis Ross, MPW (phone)

Rich Huebner, MPW (phone)

3. Standards of Conduct and Anti-Trust Guidelines

Chairman Burbach reviewed the Standards of Conduct and Anti-Trust Guidelines.

4. Consent Agenda

a. *Approve Meeting Minutes from August 26th, 2009, [Attachment 4a]*

The MBS reviewed the minutes and made a few minor changes. The minutes were approved unanimously upon motion by Gerry Lane, seconded by Kerry Marinan.

5. Chairman's Report

Plan is needed for approving the MBS Manual due to the size of the document and the significant changes.

Nebraska companies are still part of the external model. Discussion needed.

Hoa Nguyen will be replaced by Ron Mazur (MH) as chairman of the RAC.

6. 2009 Series Development

a. *Wrap Up*

1) *Power flow models*

MRO staff has compiled the machine reactive capability data and will post it shortly in idev format along with the 2009 series power flow models.

Action item: Adam Flink to compile NERC compliance idevs applied to MMWG models and provide them to the data reps to be reviewed and possibly incorporated into the 2010 series models and the MOD base case.

2) *Dynamic models*

Salva Andiappan (MRO staff) reported that the final dynamics package has been posted following significant work by MRO staff cleaning up the package.

Iowa fault not showing significant response. A more significant fault is needed from Iowa.

The CMHDC3 model generates nuisance messages (from SUVC model) and Dstates with some power flows. MH is aware of and working to correct the deficiencies.

Dynamic documentation, last issued with the MRO 2006 Series package, was not updated and will therefore not be issued with this series.

Action item: Iowa reps to provide a more significant fault for the Iowa area.

Action item: Kerry Marinan to provide a disturbance for the WUMS area.

Action Item: Salva to advise datareps if their dynamic models were disabled by PTI during final stability model development.

Action Item: Gerry Lane will review draft dynamic documentation he had previously provided to MRO for the 2007 Series and forward it as a starting point for the 2010 series.

7. 2010 Series Development

a. *Approval of PSS/E version.*

The MBS discussed whether the MMWG will approve version 32 at their meeting next week (Nov. 5-6).

MISO staff indicated that it is not certain whether the MOD database can be used with version 32.

Kerry Marinan made the following motion:

The MBS would support moving forward to version 32 if PTI can agree to the following:

1. PTI finishes update of user models and provide to model owners by January 19, 2010.
2. PTI provides support throughout the user model testing.
3. PTI provides MOD File Builder for version 32 by December 1, 2009.
4. *MISO to obtain MOD for version 32 by November 9, 2009.*

The motion was seconded by Wayne Haidle and was approved unanimously by the MBS.

- b. *Approval of model building process.*
 1. *Development of Dynamics Model by MRO staff.*

MRO staff will be developing the dynamics models for the 2010 series.
 2. *Use of MOD Assist on Pass1 and Pass2 series models to check for topology changes (i.e., branch and transformer data only).*

MISO staff recommends that data reps use MOD File Builder to check topology. A comment will be added to the Data Request Package.
- c. *Approval of model building schedule. [Attachment 7c]*
- d. *MBS review and approval of modifications to:*
 1. *MBS Charter. [Attachment 7d1]*

Upon motion made by Gerry Lane and seconded by Wayne Haidle, the revised charter was approved, as amended.
 2. *Data request cover letter. [Attachment 7d2]*

A few changes were made. Upon motion made by Holli Krizek and seconded by Luke Erichsen, the MBS unanimously approved the Cover Letter, as amended.
 3. *Data request package. [Attachment 7d3]*

Action item: Adam Flink to send the new MMWG three character case name convention to Loren Mayer to be included in the MOD naming convention and to Gerry Lane to update the Data Submitter's document.
Action item: Gerry Lane to provide his proposed changes to the dynamics section of the Data Request Package to Laura by October 29th.
 4. *MBS manual. [Attachment 7d4]*
 - a. *Wind manual [Attachment 7d4a]*

The MBS decided to leave the wind manual posted with the 2009 series and not update it for inclusion the 2010 series.

For the MBS manual and Data Request Package, the MBS will follow the schedule below to review and approve these documents.

1. By Wednesday, November 4 all MBS changes be submitted to MRO staff.
2. By Wednesday, November 11 a new draft is sent to the MBS and all new changes shown in a different color.
3. By Wednesday, November 18 all second round changes or comments be sent to the MBS exploder list.
4. By Wednesday, November 25 the final version is sent to the MBS exploder list with new changes shown in a third color.

5. An email motion and second be made on Monday, November 30, and an email vote by Friday, December 4.

5. *Data Submitter Document [Attachment 7d5]*

Gerry Lane briefly covered a few changes that he has made to the data submitter document.

Gerry will make more changes and send to the group for review and approval.

e. *Enhancements to Workbook [Attachment 7e]*

1. *slack bus*
2. *estimated losses*
3. *individual generators*
4. *loads by area*
5. *tracking shared generators*

Action item: Adam Flink will put together a sample review workbook showing some of the enhancements. This will be sent to the MBS along with an explanation of changes for review.

f. *Incorporation of Corn Belt into the WAPA BA.*

CBPC will be submitting their own data starting with the 2010 series. CBPC will be in area 652 (WAPA).

g. *Status of Nebraska companies in the MRO 2010 Series.*

Action item: Alan, Wayne, Holli to work with Neb and SPP to plan insert of Neb from SPP into MRO model, plan done by end of January for MBS approval.

8. **Other Business**

a. *Interruptible load modeling*

b. *MMWG model quality issues [Attachment 8b]*

Adam Flink will forward the document from the meeting between NERC staff and regional staff.

c. *Model series documentation*

1. *Area appraisal template – Wayne Haidle & Srinivas Vemuri*

This will be sent out for review.

2. *User model definitions*

The dynamics documentation has not been updated recently. The MBS would like to resume the process of updating the dynamics documentation for future model series.

d. *Collection of additional generator data – Gerry Lane*

The portions of generator capacity designated as Network and Energy resource could be added to the company workbooks, or to a separate spreadsheet.

Srinivas suggested we only document units that are not fully designated as a network resource. Their full capacity could be assumed as a network resource unless otherwise documented in the spreadsheet.

Action item: Adam Flink and Gerry Lane to modify company workbook to include an additional tab for additional generator data.

9. Reports

a. MRO Modeling Contractor Report – Loren Mayer

Loren reported that ‘MRO’ could be removed from the MOD file naming convention.

b. ERAG MMWG – Kerry Marinan

Data Dictionary is due Nov 9, Adam will be collecting any missing entries.

10. Next meeting

a. MBS – action item to schedule meeting for 2010

No meetings are scheduled at this time.

b. RAC – November 18th

11. Adjourn

Upon motion made by Gerry Lane and seconded by Srinivas Vemuri, the meeting was adjourned.