

MEETING MINUTES
MIDWEST RELIABILITY ORGANIZATION
Model Building Subcommittee
Holiday Inn Select, Bloomington, MN
October 17th, 2007 – 9:00 AM – 4:00 PM

1. Call to Order

Chairman Burbach called the meeting of the Midwest Reliability Organization (MRO) Model Building Subcommittee (MBS) to order at 9:00 AM.

2. Determination of Quorum

The following members and guests were present:

Members Present:

Alan Burbach, LES Chairman	Dan Custer, MEC
Adam Flink, MRO Secretary	Dave Kempf, GRE
Gerry Lane, MH	Loren Mayer, MISO
Wayne Roelofs, GRE	Hamish Wong, WPS
Kerry Marinan, ATC	Holli Krizek, WAPA
Srinivas Vemuri, XEL	Dustin Betz, NPPD
Abul Shuvo, ALTW	
Dan Jesberg, MRO Alt. Secretary	Wayne Haidle, BEPC

Members Absent:

Rao Konidena, MISO Liaison **Kristian Samoila, SPC**

Guests:

Randy Oye, XEL

3. Standards of Conduct and Anti-Trust Guidelines

Chairman Burbach presented the MRO and NERC Committee Membership Policy #4 and the Standards of Conduct and Anti-trust Guidelines.

4. Consent Agenda

a. Approve Meeting Minutes from July 17th, 2007

Modification submitted by Mr. Lane
Modification submitted by Mr. Custer

Upon Motion duly made by Mr. Lane and seconded by Mr. Custer, the Model Building Subcommittee approved the July 17th, 2007 minutes as amended.

5. MBS Membership Issues – Alan Burbach

Chairman Burbach updated the group on the following MBS membership changes:

- a. At their September 5th meeting the RAC ratified Mr. Wayne Haidle as a Dakotas Area representative on the MBS.*
- b. The RAC also ratified Mr. Wayne Roelofs as a replacement for Mr. Dave Kempf as a Minnesota Area representative, beginning with the conclusion of the MBS meeting held on October 17, 2007.*

6. Status Report on MRO 2007 Series Models

a. *Final Wrap-up on Power Flow & Dynamic Model Development*

Gerry Lane commented that the posted dynamics files are not in the correct directory structure; this will need to be fixed so that the dynamics package is more usable.

There may be conflicts with some of the user models due to the order in which the snapshot was built and the array locations may not be consistent with previous model series.

Action Item: Gerry Lane will add a section to the Model Building Manual to address the issue of dynamics file organization.

b. *Comments on model documentation, including area appraisals*

Gerry Lane suggested that a general comments area be inserted in the model documentation ahead of the area appraisals. This would include major changes like PSS/E version, external data set used, bus/area/zone renumbering, etc.

Action Item: Adam Flink to update the 2006 series Model Documentation for the 2007 series, including the area appraisals that have been received so far (MN, Sask, MH, NE, ATC) and send this document to the MBS for any additional updates that are necessary.

Action Item: Reps from IA and Dakotas to complete area appraisals and submit them to Adam Flink by October 31 for inclusion in the Model Documentation (from previous action item).

c. *Review and adopt a benchmarking document*

Action Item: Adam Flink to draft a document outlining the dynamics benchmarking that has been done for the 2006 and 2007 MRO model series. The document should encompass the considerations outlined in Exhibit B of the MISO-MRO agreement.

7. Development of the MRO 2008 Series Models

a. *Review the status of the model renumbering*

Loren Mayer gave an update: The bus renumbering is not finished in the MOD base case due to difficulties obtaining the translation files for renumbering the regions external to MRO. MISO expects that this process will be finished by the end of November.

b. *Review the status of the MOD model update*

The MOD base case updated to include projects with in-service dates through 09-30-07 is posted on the MRO web site. The renumbered base case will also be posted once the renumbering has been completed.

Action Item: Loren, Joe, and Alan will hold a conference call to confirm the MBS discussion on the status of the MOD base case renumbering and posting of the final case.

c. *Review the status of the converting the MOD Projects to expected in-service dates*

Not discussed

d. *Review the revised list of power flow models, and review and adopt the model building schedule*

The MBS discussed the schedule at length. Main points of discussion:

- Loren Mayer highly recommended that a review of unsolved Pass 1 models be made to clean up major problems before attempting solution. The MBS generally agreed with this approach but would like to be sure that the Data Reps will be informed that this will be a cursory check and will be given a list of specific items to be checked for this review.

- The MBS decided that ACCC analysis should be performed on the Pass 1 models to help identify potential modeling errors. The ACCC results will be given to the Data Reps for review in addition to the solved models.
- The MBS decided that a crosscheck should be added after the finalization of the models to be sure that the cases in MOD match the final cases.
- Because of the new, tighter schedule for the 2008 series, the MBS feels that it is very important that data submittals be on time and of a sufficiently high quality so as to prevent excessive iterations of the model building process.

Upon motion duly made by Kerry Marinan and seconded by Dan Custer, The MBS voted to approve the schedule as modified, given that MISO finishes updating MOD by December 1, 2007. The data request is to be sent out as soon as MOD is ready.

Action Item: Adam Flink to speak with MRO compliance department and report back to the MBS regarding the potential compliance consequences relating to the timeliness and quality of data submittals. Changes may need to be made to the data request due to this information.

Action Item: Adam Flink to clean up modified schedule document and send it to the MBS.

e. Review the MISO and MRO scope of work proposals

Action Item: Loren Mayer to update MISO scope of work document and send to MBS for review.

f. What tasks are required to move the dynamics to PSS/E Rev 30?

The MBS decided that a note to data reps should be added to the data request reminding them that 2008 series dynamics will be in V30

Action Item: Gerry Lane to follow up on dynamics issues.

g. Interchange control – Tie Lines and Loads.

Action Item: Adam Flink, Alan Burbach and Loren Mayer to design an interchange spreadsheet for use in the 2008 series. This spreadsheet will be based on the spreadsheets used for previous MRO model series and on the spreadsheet that Loren has created.

h. Short Circuit model – see item b under Old Business

The MBS held to its previous decision to not build a short circuit model for the 2008 series.

i. Interregional Tie Lines – Loren Mayer

Not covered, there are not any issues that need to be resolved regarding Interregional Tie Lines.

8. Data Request for the MRO 2008 Series Models

Action Item: Adam Flink to clean up the cover letter and data request drafts and send to MBS for comments before issuing to the data reps. Also, add comments regarding compliance based on discussion with MRO compliance dept. (see item 7d).

The Data Request package is to be sent out to the data reps once MOD is updated and ready to be used.

Action Item: Alan Burbach to notify the data reps that the data request will be sent out around December 1.

9. MRO Model Building Procedural Manual

The MBS did not have time to review the manual during this meeting.

Action Item: Adam Flink to send latest version of the manual to the MBS for review and comment. The MBS will have a conference call to approve the manual before the data request is sent out (around 12/1).

10. Reports

a. *WGMTF – Randy Oye, Chairman of WGMTF*

Randy Oye gave a report on the status of WGMTF activities:

The Wind Manual is presented to the MBS for inclusion with the MRO Model Building Manual as an addendum, to be sent out with the 2008 series data request.

Additions to Wind Modeling Manual since last MBS review:

- Executive summary
- Additional information regarding WTG types

The WGMTF will continue to update this manual with the most current information available, particularly in regard to dynamic models, as they become available for modeling use.

The WGMTF requests that the MBS send the Wind Data Collection spreadsheet with the 2008 series data request for further updates.

The WGMTF plans to continue work on the Wind Manual and Data Collection Spreadsheet for approximately one year.

Upon motion duly made by Dan Custer and seconded by Dave Kempf, the MBS voted to include the Wind Modeling Manual with the MRO Model Building Manual as an addendum, for distribution with the manual. The WGMTF will retain the right to edit the Wind Manual in the future.

b. *ERAG MMWG – Kerry Marinan*

Kerry Marinan gave a report on the activities of the ERAG MMWG:

1. *Update on request for shoulder cases.*
MMWG will query regions regarding the need for shoulder peak models
2. *Update on clarification of loads to model in various cases.*
Not covered
3. *8/4 Event Data Request*
The MMWG is collecting data from the regions for a study of the 8/4 event.
Action Item: Kerry Marinan and Adam Flink to compile MISO data for this request.

11. Other Business

a. *SPC requested written documentation to justify the reliability need for adding cases to the MMWG case list, and the use of 70% of summer peak load as the summer off-peak load level. There is currently no standardized process or criteria for the addition of extra cases to the MMWG series.*

Gerry Lane added dialogue the Model Building Manual Section 4.3 (Set of Models) to address SPC's concern.

Action Item: Alan Burbach to verify with SPC if justification has been made.

b. *Review proposed meeting dates for the year 2008*

The MBS set tentative meeting dates for 2008:

- March 18

- May 21
- July 22
- October 28

12. Old Business

- a. *Enhancement of the MOD data submitter/documentation manual including the possible addition of a summary action list from the data submitter perspective. – Gerry Lane*

Gerry Lane reported that the latest draft provided for the meeting reflects feedback from Loren Mayer, Joe Smith and Al Burbach. Comment from other MBS members is still welcome.

Action Item: Gerry Lane will update the draft prior to issue of the data request based on:

- recent feedback from Kerry Marinan,
- new MODAssist tool (effectively replacing CaseMgr tool), and
- verification of procedure sequences using the upcoming version of the MOD program to be used for the 2008 series model development.

- b. *The NERC System Protection Coordination Task Force has recommended that MOD-11-0 include the collection and maintenance of short circuit data. The MRO will need to collect this data if it becomes part of the NERC Reliability Standards, possibly beginning with the 2008 Series. The MBS will monitor any developments with this issue.*

This item was not covered in the meeting.

13. Next meeting

- a. *MBS: See agenda item 11b*
- i. *Conference call to approve Model Building Manual – date/time: TBA*
 - ii. *Meeting – March 18, 2008*
 - iii. *Meeting – May 21, 2008*
 - iv. *Meeting – July 22, 2008*
 - v. *Meeting – October 28, 2008*
- b. *RAC: November 2nd, 2007 – Holiday Inn Select, Bloomington, MN*
- c. *WGMTF conference call: December 4th, 2007*

14. Adjourn

The meeting was adjourned at 4:00 PM.