



**MEETING MINUTES
MIDWEST RELIABILITY ORGANIZATION
Scenario Assessment Task Force
Xcel Energy Offices – Minneapolis, MN
October 13, 2008 – 8:00am – 4:00pm**

1. Call to Order

Chair Zhu called the meeting of the Scenario Assessment Task Force to order at 8:15am.

2. Determination of Quorum

Chair Zhu welcomed all those in attendance. Mr. Porter determined that a quorum was present. The following members, guests and MRO staff were present:

Members Present

Wenchun Zhu, ATC	Keven Szarkowski, BEPC
Jay Porter, GRE	Jeff Mitchell, RFC
Matt Ellis, MISO	Hamish Wong, WPS
Rich Quest, XEL	Randy Oye, XEL

Members Absent

Joe Berry, ITC	Dustin Betz, NPPD
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Guests

Dale Osborn, MISO	JT Smith, MISO
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Staff Present

John Seidel	Dan Jesberg
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3. Standards of Conduct and Anti-Trust Guidelines

Pursuant to Policy and Procedure 4, Mr. Porter reviewed the Standards of Conduct and Anti-Trust Guidelines.

4. Consent Agenda

Chair Zhu reviewed the meeting agenda and solicited the task force for any comments, additions, or changes.

5. Approve Minutes of August 27 & 28, 2008 Meeting

Mr. Jesberg called for discussion on the meeting minutes of the August 27 & 28, 2008 meeting.

Upon motion duly made by Mr. Oye and seconded by Mr. Porter, the Scenario Assessment Task Force unanimously approved the minutes of the August 27 & 28, 2008 Scenario Assessment Task Force meeting as amended.

6. Review of Latest LTRA Spreadsheet Modification

a. Review of the Base Case LTRA Spreadsheet

Mr. Seidel reviewed the two wind scenario energy calculations developed by himself and Hoa Nguyen. Mr. Nguyen's calculations were based on comments/interpretations from the NERC RAS where: 1) 15% renewable energy would be added above and beyond all proposed renewable energy already included in the 2008 LTRA, and 2) 15% renewable energy would be with respect to 2008 total energy. Mr. Seidel's calculations assume that new wind generation sufficient to serve 15% of the energy needs in 2017 would be added to the existing in-service wind generation (approximately 4000 MW).

The group concluded that it is unrealistic to add 12,000 MW of wind generation on top of the 13,000 MW of wind generation already included in the LTRA. Mr. Seidel will contact NERC staff to clarify that wind generation sufficient to serve 15% of the energy needs in 2017 would be added to the existing in-service wind generation.

b. Begin Development of Scenario LTRA Spreadsheet

The task force postponed the continued development of the LTRA spreadsheet until further progress is made on the draft narrative for the MRO Scenario Assessment.

7. Define Base Scenario and Wind Scenario

With the 2008 LTRA serving as the base case, the group began to develop and discuss issues that need to be addressed in the assessment narrative. Several key issues were debated and discussed.

Over the years, MISO has observed a wide range of on-peak wind generation availability (from < 2% and > 60% of nameplate capacity, during a given peak hour). The MRO LTRA assumes a constant 20% capacity factor for wind for all years. As wind generation increases, the amount assumed to be "certain on-peak" may be reduced. However, for the purposes of the Scenario Assessment, 20% will be used to be consistent with the 2008 LTRA.

8. Update of JCSP08 and RGOS Studies

The group discussed that the JCSP 2008 study would be its primary resource for development of the Transmission Assessment portion of the MRO Scenario Assessment. In particular, the JCSP data and analysis projecting up to 2018 would be used.

Matt Ellis presented the JCSP study data (demand, generation, energy, wind energy, etc) specific to MRO footprint (plus WE-energies). This was requested by the group during the previous meeting. The group discussed that the WE Energies portion will need to be removed so that an accurate picture of the MRO footprint can be observed.

The group discussed that it makes better sense to discuss the JCSP exploratory transmission plan jointly by all regions (SPP, MRO, RFC, etc.) with circuit miles broken down for each RRO, instead of discussing portions of the exploratory plan within each region individually. This will also help consistency among each region's transmission assessment section.

9. First Draft Outline of the MRO Scenario Assessment

Chair Zhu presented to the group her proposed delegation of responsibilities for the different sections of the MRO Scenario Assessment narrative.

The group discussed the different issues and questions raised by the NERC request letter and how the task force's responses could be integrated into a narrative.

The group discussed that for the sections of the assessment that address demand, generation and resource adequacy, the MRO collected data will be used; for the sections that address transmission, the JCSP study will be used; for the sections that address operational issues, the MISO wind farm operating experience will be discussed, the MN wind integration study, JCSP study and other studies where applicable will be used as well.

Other issues discussed included the use and effect of capacity transactions between other regions, the effects that wind capacity increases would have on existing transmission, what additional transmission will be required and where it would be installed, and how the fuel mix in the region would be affected. Capacity margins will be calculated for each set of assumptions. No additional unit retirements will be assumed as a result of the new wind generation, but the group agreed that the risk for additional unit retirements will increase if wind routinely displaces the output of these base load units. This could potentially reduce much needed regulating capability as well.

The group also noted that the NERC request letter was inconsistent on which LTRA would be used in the assessment. The letter seems to imply the use of both the 2008 and the 2009 LTRAs. Clarification from NERC staff will be requested.

Action Item: the delegated lead individuals for various sections will start working on his/her sections and will lead the discussions for their respective sections during the next meeting. It was discussed that the group should work together. The lead individuals will contact other members for discussions. All members provide discussions/opinions during group discussions.

10. Other Business

No other business.

11. Next Meetings

The next meeting of the Scenario Assessment Task Force is scheduled for December 17th, 8:30am – 4:00pm. This meeting will be held at the MRO offices in Roseville, MN.

12. Adjourn

Having no further business, Chair Zhu adjourned the meeting at 5:00pm.

Prepared by:

Dan Jesberg, Staff Engineer, Midwest Reliability Organization

Reviewed and Submitted by:

John Seidel, Reliability Assessments Manager, Midwest Reliability Organization

Wenchun Zhu, SATF Chair, ATCLLC