



**ORGANIZATION OF MISO STATES, INC.
Board of Directors Meeting
Conference Call Minutes
June 10, 2010**

Approved July 8, 2010

Valerie Lemmie, President of the Organization of MISO States, Inc. (OMS), called the June 10, 2010 meeting of the OMS Board of Directors to order via conference call at approximately 1:00 p.m. (CDT). The following board members or their proxies participated in the meeting:

Sherman Elliott, Illinois
Bob Pauley, proxy for Jim Atterholt, Indiana
Rob Berntsen, Iowa
Bill Bowker, proxy for David Armstrong, Kentucky
Monica Martinez, Michigan
Burl Haar, proxy for Tom Pugh, Minnesota
Robert Kenney, Missouri
Greg Jergeson, Montana
Tony Clark, North Dakota
Valerie Lemmie, Ohio
Ty Christy, Pennsylvania
Greg Rislov, proxy for Gary Hanson, South Dakota
Brian Rybarik, proxy for Lauren Azar, Wisconsin

Absent

Manitoba

Agency members participating

Christine Ericson – Illinois
Parveen Baig – Iowa
Bill Bokram – Michigan
Jerry Lein – North Dakota
Don Neumeyer – Wisconsin

Others on the call

Bill Smith, Julie Mitchell – OMS Staff

The directors and proxies listed above established the necessary quorum for the meeting of at least eight directors being present.

Approval of Minutes from June 10, 2010

Greg Jergeson moved to approve the May 13 minutes. Robert Kenney seconded. The motion was passed by unanimous voice vote.

Treasurer's Report – Robert Kenney

The beginning balance as of May 1 for the Wells Fargo Business Performance Savings Account was \$29,725.07 Interest earned for this month was \$1.26. The May 31, 2010 balance was \$29,726.33

The beginning balance as of May 1 for the Chase Bank One Checking account was \$31,411.59.59. The total disbursements from the checking account for May 2010 were \$48,339.57. Deposits and interest were \$50,615.81. As of May 31, 2010, the checking account bank balance was \$42,785.69 and the book balance was \$33,687.83 (with 22 checks outstanding).

The total savings and checking account balances as of May 2010 is \$63,414.16.

Robert Kenney moved to accept the May 31, 2010 treasurer's report. Burl Haar seconded. The motion was approved by unanimous voice vote.

Review of the Executive Committee Meeting

Bill Smith reviewed the following items from the May 27, 2010 Executive Committee Meeting:

- OMS financials were discussed. Bill Smith is taking requests for budget items;
- Discussed personnel committee. Bill Smith asked for volunteers for this committee;
- Briefed Board on Black Sea Partnership.

BUSINESS

1. MISO Advisory Committee Issues – Monica Martinez

- There is one voting item, which is to review management/charter plans. Monica Martinez stated that Michigan supports this review;
- OMS had no position on this month's hot topic;
- The other item of interest was the self-assessment discussion. Forms will be circulated and sent out to commissions before the Advisory Committee meeting.

2. Planning Advisory Committee – Rob Berntsen

- Written report was distributed prior to meeting.
- Rob Berntsen reviewed the MTEP '10 futures issues that he discussed in his written report.
- There was also discussion about the BPM process.

3. Comment to FERC on MISO ASM Zonal Cost Allocation filing – Markets and Tariffs Work Group

- The work group is not currently asking the OMS Board to take action because they cannot reach a consensus. Therefore, no vote was taken.
- Bill Smith noted that OMS raised the concerns about this issue and that silence implies acceptance. He suggested a cautionary filing or a filing noting that analysis is continuing. The Board instructed the work group to submit a filing that indicates OMS is continuing to engage with MISO and seek consensus among the states on this issue.

4. CARP – Treatment of Remaining Issues – Brian Rybarik

- MISO must file with FERC in July.
- The next CARP call is June 14th with a focus on market impacts. At this time, no additional votes are anticipated for the CARP work group – if there are issues needing approval, they will likely be brought to the entire Board for approval.
- Commissioner Azar will not chair CARP next year.

5. RECB Task Force Update – Brian Rybarik

- Commissioner Azar will not continue to chair RECB in the next year. If OMS wants to continue to chair the task force, someone would have to step forward immediately as nominations are due by the end of the day. If no one from OMS volunteers, Paul Jett of Duke Energy (the current vice-chair) has offered to take over.

6. Eastern Interconnection Planning Process – Brian Rybarik

- DOE still hasn't released funding so the June meeting was cancelled. The next meeting is scheduled for July 29-30. This meeting will be confirmed by July 1. It will be cancelled if DOE has not yet released funding.
- The biggest issue is formation of the stakeholder committee of Topic A group.
- Brian discussed the composition of the committee in terms of state representation.

7. Report on Black Sea Partnership

- The October dates have been sent to the Black Sea partners to determine their availability. The dates are October 18-20 and would be around the same time as the OMS Annual Meeting.

Updates and Work Group Status Reports

Demand Response WG

- No report;

Transmission Cost Allocation WG

- No report;

Markets and Tariffs WG – Mike Proctor

- Mike Proctor gave an overview presentation discussing what extended locational marginal pricing is all about. This is also known as convex hull. He then answered questions from the Board;
- Bill Bokram then reported on what the work group's next steps are;
- Written report follows minutes;

Resources WG – Don Neumeyer

- Don Neumeyer reported on MISO's resource capacity construct discussions;
- Sherman Elliott offered to send out the Energy Only white paper around to the rest of the Board and staff;
- Written report follows minutes;

Regional Planning WG

- Written report follows minutes;

Governance and Budget

- Written report follows minutes;

Modeling WG

- Written Report follows minutes;

MARC Conference Report – Robert Kenney

- Robert Kenney reported on the MARC Conference that was held in Kansas City.

Work Group Retreat – Valerie Lemmie

- Valerie Lemmie reported on an upcoming work group chairs retreat in Montana.

ADJOURNMENT

The OMS Board of Directors meeting adjourned at 2:25 pm CDT.

OMS

**Organization of MISO States
Report of the Treasurer
Robert Kenney, Missouri Public Service Commission
to the
Board of Directors
June 10, 2010
Report for May 2010**

CASH ON HAND

The beginning balance as of May 1 for the Wells Fargo Business Performance Savings Account was \$29,725.07 Interest earned for this month was \$1.26. The May 31, 2010 balance was \$29,726.33

The beginning balance as of May 1 for the Chase Bank One Checking account was \$31,411.59.59. The total disbursements from the checking account for May 2010 were \$48,339.57. Deposits and interest were \$50,615.81. As of May 31, 2010, the checking account bank balance was \$42,785.69 and the book balance was \$33,687.83 (with 22 checks outstanding).

The total savings and checking account balances as of May 2010 is \$63,414.16.



TREASURER'S REPORT
Organization of MISO States
May 31, 2010

Wells Fargo Business Performance Savings Account

| | | | | |
|---|-----|---------------------|----|------------------|
| Balance as of 5/01/10 | | | \$ | 29,725.07 |
| 5/28/10 | DEP | Interest on Savings | \$ | 1.26 |
| | | | | <hr/> |
| Business Performance Savings Account Balance at 4/30/10 | | | \$ | <u>29,726.33</u> |

Chase Bank One Commercial Checking with Interest

| | | | | |
|----------------------|-----|------------------------------|----|-----------|
| Balance as of 5/1/10 | | | \$ | 31,411.59 |
| 5/10/10 | DEP | MISO Remittance | \$ | 50,000.00 |
| 5/18/10 | DEP | Koepke College Fund Memorial | \$ | 575.00 |
| 5/25/10 | DEP | NAAG Travel Reimbursement | \$ | 40.39 |
| 4/30/10 | DEP | Interest on checking | \$ | 0.42 |
| | | | | <hr/> |
| | | Total Deposits | \$ | 50,615.81 |

Checks and Charges

| Date | Check # | Descriptions | |
|---------|---------|-------------------------|------------|
| 1/27/10 | 3317 | Voided Check | \$ (53.02) |
| 5/3/10 | 3459 | NARUC | \$ 295.00 |
| 5/3/10 | 3460 | IL Travel Reimbursement | \$ 512.88 |
| 5/3/10 | 3461 | IA Travel Reimbursement | \$ 440.78 |
| 5/3/10 | 3462 | IA Travel Reimbursement | \$ 432.32 |
| 5/3/10 | 3463 | KY Travel Reimbursement | \$ 286.01 |
| 5/3/10 | 3464 | MI Travel Reimbursement | \$ 38.18 |
| 5/3/10 | 3465 | MI Travel Reimbursement | \$ 66.12 |
| 5/3/10 | 3466 | MI Travel Reimbursement | \$ 33.90 |
| 5/3/10 | 3467 | MI Travel Reimbursement | \$ 143.07 |
| 5/3/10 | 3468 | MN Travel Reimbursement | \$ 541.09 |
| 5/3/10 | 3469 | MN Travel Reimbursement | \$ 833.87 |
| 5/3/10 | 3470 | MO Travel Reimbursement | \$ 20.24 |
| 5/3/10 | 3471 | MO Travel Reimbursement | \$ 640.85 |
| 5/3/10 | 3472 | MO Travel Reimbursement | \$ 934.43 |
| 5/3/10 | 3473 | OH Travel Reimbursement | \$ 191.68 |
| 5/3/10 | 3474 | OH Travel Reimbursement | \$ 115.00 |
| 5/3/10 | 3475 | PA Travel Reimbursement | \$ 688.51 |
| 5/3/10 | 3476 | WI Travel Reimbursement | \$ 430.50 |
| 5/3/10 | 3477 | WI Travel Reimbursement | \$ 319.52 |
| 5/6/10 | 3478 | IA Travel Reimbursement | \$ 741.10 |
| 5/6/10 | 3479 | IA Travel Reimbursement | \$ 324.68 |
| 5/6/10 | 3480 | MN Travel Reimbursement | \$ 680.09 |
| 5/6/10 | 3481 | MN Travel Reimbursement | \$ 925.40 |
| 5/10/10 | WD | Paychex EIB | \$ 119.28 |
| 5/12/10 | 3482 | AR Travel Reimbursement | \$ 53.02 |
| 5/13/10 | 3483 | IL Travel Reimbursement | \$ 157.16 |
| 5/13/10 | 3484 | MI Travel Reimbursement | \$ 276.15 |
| 5/13/10 | 3485 | MI Travel Reimbursement | \$ 150.48 |
| 5/13/10 | 3486 | MI Travel Reimbursement | \$ 287.91 |
| 5/13/10 | 3487 | MT Travel Reimbursement | \$ 684.87 |
| 5/13/10 | 3488 | MT Travel Reimbursement | \$ 859.85 |
| 5/13/10 | 3489 | OH Travel Reimbursement | \$ 384.68 |
| 5/13/10 | 3490 | SD Travel Reimbursement | \$ 160.00 |
| 5/13/10 | 3491 | SD Travel Reimbursement | \$ 595.70 |
| 5/13/10 | 3492 | SD Travel Reimbursement | \$ 530.94 |
| 5/13/10 | 3493 | SD Travel Reimbursement | \$ 435.30 |

| | | | |
|---------|------|-----------------------------|-------------|
| 5/13/10 | 3494 | WI Travel Reimbursement | \$ 498.88 |
| 5/13/10 | 3495 | WI Travel Reimbursement | \$ 521.96 |
| 5/13/10 | 3496 | WI Travel Reimbursement | \$ 450.52 |
| 5/13/10 | 3497 | WI Travel Reimbursement | \$ 287.12 |
| 5/18/10 | 3498 | Memorial Fund-Dennis Koepke | \$ 575.00 |
| 5/21/10 | WD | Chase Card Services | \$ 3,354.32 |
| 5/21/10 | 3499 | MN Travel Reimbursement | \$ 670.22 |
| 5/21/10 | 3500 | ND Travel Reimbursement | \$ 192.00 |
| 5/21/10 | 3501 | SD Travel Reimbursement | \$ 108.00 |
| 5/21/10 | 3502 | SD Travel Reimbursement | \$ 498.40 |
| 5/21/10 | 3503 | SD Travel Reimbursement | \$ 108.00 |
| 5/21/10 | 3504 | SD Travel Reimbursement | \$ 498.40 |
| 5/21/10 | 3505 | WI Travel Reimbursement | \$ 288.24 |
| 5/21/10 | 3506 | WI Travel Reimbursement | \$ 26.55 |
| 5/21/10 | 3507 | WI Travel Reimbursement | \$ 436.11 |
| 5/21/10 | 3508 | IA Travel Reimbursement | \$ 12.00 |
| 5/21/10 | 3509 | Infomax Office Systems | \$ 159.00 |
| 5/21/10 | 3510 | 100 Court Investors | \$ 1,686.42 |
| 5/21/10 | 3511 | Conference Suite | \$ 1,576.73 |
| 5/21/10 | 3512 | Qwest | \$ 265.34 |
| 5/21/10 | 3513 | Doubletree Guest Suites | \$ 4,948.16 |
| 5/21/10 | 3514 | IN Travel Reimbursement | \$ 49.50 |
| 5/27/10 | 3515 | Triplett Office Essentials | \$ 94.98 |
| 5/27/10 | 3516 | Infomax Office Systems | \$ 81.61 |
| 5/27/10 | 3517 | DWX Internet | \$ 35.00 |
| 5/27/10 | WD | Paychex Payroll | \$ 9,109.62 |
| 5/28/10 | WD | Paychex-Payroll Taxes | \$ 4,844.36 |
| 5/28/10 | 301 | 401K Contribution-May | \$ 69.74 |
| 5/28/10 | 302 | 401K Contribution-May | \$ 391.55 |
| 5/28/10 | 303 | 401K Contribution-May | \$ 2,224.30 |

| | |
|--|--------------|
| Total Checks and Charges | \$ 48,339.57 |
| CHECKING ACCOUNT BALANCE 5/31/10 | \$ 33,687.83 |
| CERTIFICATES OF DEPOSIT, SAVINGS AND CHECKING ACCOUNT BALANCES AS OF 5/31/10 | \$ 63,414.16 |

CHASE CHECKING ACCOUNT RECONCILIATION

| | Check # | Amount |
|----------------------|---------|--------------|
| Bank Balance 5/31/10 | | \$ 42,785.69 |
| Less Checks OS | | |
| | 3448 | \$ 722.42 |
| | 3464 | \$ 38.18 |
| | 3466 | \$ 33.90 |
| | 3483 | \$ 157.16 |
| | 3486 | \$ 287.91 |
| | 3494 | \$ 498.88 |
| | 3495 | \$ 521.96 |
| | 3496 | \$ 450.52 |
| | 3497 | \$ 287.12 |
| | 3498 | \$ 575.00 |
| | 3500 | \$ 192.00 |
| | 3501 | \$ 108.00 |
| | 3505 | \$ 288.24 |
| | 3506 | \$ 26.55 |
| | 3507 | \$ 436.11 |
| | 3511 | \$ 1,576.73 |
| | 3515 | \$ 94.98 |
| | 3516 | \$ 81.61 |
| | 3517 | \$ 35.00 |
| | 301 | \$ 69.74 |
| | 302 | \$ 391.55 |
| | 303 | \$ 2,224.30 |
| Book Balance 5/31/10 | | \$ 33,687.83 |

OMS Treasurer Report for Month of May 2010

Wells Fargo Business Performance Savings Account

| | | |
|----------------------------|-----------|-----------|
| Beginning Balance | 29,725.07 | |
| Interest Earned this Month | 1.26 | |
| Withdrawals | | |
| Ending Balance | | 29,726.33 |

Chase Bank One Checking Account

| | | |
|-------------------------------|-------------|-----------|
| Beginning Balance | 31,411.59 | |
| Total Disbursements | (48,339.57) | |
| Deposits/Interest/Adjustments | 50,615.81 | |
| Ending Balance | | 33,687.83 |

Total Savings & Checking Balances as of May 31,2010

63,414.16

22 checks outstanding at 5/31/2010



Organization of MISO States

100 Court Avenue, Suite 315
Des Moines, Iowa 50309

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www.misostates.org

OMS Executive Director Report June 4, 2010

FERC and DOE Activity

1. On May 13, the OMS filed comments with the FERC on compensation for aggregators of retail consumers in Docket No. RM10-17.
2. On May 13, the OMS intervened in the Southwest Power Pool's cost allocation filing to urge the FERC to avoid limiting MISO's cost allocation expected July 15. (Docket No. ER10-1069).
3. The Midwest ISO to submit an Informational Report in the Resource Adequacy proceeding to assess the accuracy of the forecasts, the impact of the load forecasts on the adequacy of resources, and whether a more centralized forecasting process would be more appropriate.

OMS-MISO Activity

1. The OMS held a further cost allocation / regional planning (CARP) workshop by conference call on June 2. An additional conference call is scheduled June 14.
2. OMS staff have participated in MISO workshops on Extended Locational Marginal Cost Pricing, also called "Convex Hull Pricing." Dr. Proctor will brief the OMS Board on this project on June 10.
3. OMS held its monthly call with the Independent Market Monitor on May 27.

Public Relations

1. Presentations:

- Bill Smith spoke to the National Attorneys General Training and Research Institute on Siting and Permitting New Energy Facilities, emphasis on renewables, in St. Louis on May 12.

2. Pending speaking/meeting invitations:

- None.

Upcoming dates:

- Cost Allocation and Regional Planning Meeting, CARP 20 – June 14 (4 hours) (Conference call)
- MISO stakeholder briefing on Resource Capacity construct - June 17 12:00 – 3:00 CDT
- MISO Briefing to OMS on Resource Capacity construct - June 18 12:00-1:00 CDT
- Next regular **OMS Board of Directors meeting: July 8, 2010** at 1:00 pm CDT
- Next **OMS Executive Committee meeting – June 24, 2010** at 1:00 pm CDT
- OPSI Annual Meeting, Dearborn, Michigan, October 6-8, 2010
- OMS Annual Meeting, Carmel, Indiana, October 19-20, 2010

Upcoming MISO Filings

| Filing Date | Docket No. | Description | Pursuant to Commission Order | Working Group/ Committee where issue/change will be reviewed |
|-------------|--|---|------------------------------|--|
| 06/30/2010 | ER09-1126-00_ | The Independent Market Monitor (“IMM”) to submit an 180-day Informational Report to evaluate the actual operating characteristics of Stored Resources and assess whether the Reference Level continues to be appropriate. | 129 FERC ¶61,303 (2009) | N/A |
| 07/15/2010 | ER09-1431-00_ | The Midwest ISO to submit a Compliance Filing to fulfill its commitment to file superseding Tariff revisions regarding the RECB Phase II cost allocation methodology on or before July 15, 2010. | 129 FERC ¶61,060 (2009) | RECBTF |
| 07/19/2010 | ER10-___-000 | The Midwest ISO to submit its eTariff Baseline Filing. | Order No. 714 | N/A |
| 08/19/2010 | ER05-6-00_ EL04-135-00_ EL02-111-00_ EL03-212-00_ | The Midwest ISO to submit a Compliance Filing to comply with the Commission's May 21, 2010 directive to revise Seams Elimination Charge Adjustment (“SECA”) charges. | 131 FERC ¶61,173 (2010) | N/A |
| 08/25/2010 | ER08-1169-00_ | The Midwest ISO to submit an Informational Report on Queue Reform (“Attachment X”) and its developments. | 124 FERC ¶61,183 (2008) | N/A |
| 08/27/2010 | ER08-394-00_ | The Midwest ISO to submit a Compliance Filing to comply with the Commission's April 21, 2010 directive to file a permanent solution regarding the Midwest ISO's Voluntary Capacity Auction and Load Modifying Resources. | 131 FERC ¶61,057 (2010) | N/A |



Organization of MISO States

100 Court Avenue, Suite 315
Des Moines, Iowa 50309

Phone: 515-243-0742
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www.misostates.org

Meetings for state regulators, June 15-17

Location: Catlin Conference Rooms, Midwest ISO, Carmel, Indiana
Times are EDT

Tuesday, June 15

- 3:00 – 5:00 Midwest ISO Informational Forum *
- 3:00 – 5:00 Human Resources Committee of the Board of Directors – Conference call: (888) 631-5931 *

Wednesday, June 16

- 8:00 – 10:00 Markets Committee of the Board – Conference call: (888) 632-5007 *
- 9:00 Meeting with TOs**
- 10:00 – 3:00 Advisory Committee ***
- 1:00 – 3:00 Corporate Governance & Strategic Planning Committee Meeting of the Board of Directors – Conference call: (888) 632-5007 *
- 3:15 – 5:15 Audit/Finance Committee of the Board of Directors – Conference call: (888) 271-8596 *
- 6:00 [Informal dinner – TBA]

Thursday, June 17

- 8:30 – 10:30 MISO Board of Directors meeting – Conference call: (888) 632-5007 *
- 11:00 – 1:00 Steering Committee *
- 1:00 – 4:00 Supply Adequacy Working Group: Discussion of Annual RA Construct Options – Webex available – Participant Dial-In Number: (800) 244-9194; Participant Code: 224482 – Register by June 15 *

* Materials posted on the MISO website.
Information as of June 14, 2010

**Midwest ISO Advisory Committee
Carmel, Indiana
June 16, 2010
10am – 2:00pm EPT
Dial-in and WebEx information available at www.midwestmarket.org**

Agenda

- | | | |
|--|-----------------|-------|
| 1. Administrative Items | Gary Mathis | 10:00 |
| a. Welcome/ Roll Call | | |
| b. Review / Approve Agenda | | |
| c. Approval of Meeting Minutes√ | | |
| d. Review Action Items | Alison Johnson | |
| 2. Hot Topic – Coordination Between Midwest ISO and Other RTOs 10 Minutes per Sector, including Minority Opinions Midwest ISO Introduction | Todd Ramey | 10:15 |
| a. Power Marketers | | |
| b. Environmental | | |
| c. Transmission Owners | | |
| d. IPP | | |
| e. OMS | | |
| f. Munis/Coop/TDU | | |
| g. Eligible End User | | |
| h. Public Consumer Advocates | | |
| i. Coordinating Members | | |
| 3. FTR Underfunding Update | Todd Ramey | 11:45 |
| LUNCH | | 12:15 |
| 4. Advisory Committee Items | Gary Mathis | 1:00 |
| a. AC Self Assessment Discussion | | |
| b. Review of AC Management Plan | | |
| c. July Meeting Discussion | | |
| 5. Standing Committee/Other Stakeholder Committee Reports | | |
| a. RECB Task Force Update | Jennifer Curran | 1:15 |
| b. Steering Committee√ | Gary Mathis | 1:30 |
| • Motion to approve FSC, PAC Charter and Mgmt Plan | | |
| c. Transmission Owners’* | JoAnn Thompson | 1:35 |
| d. Organization of Midwest ISO States | Bill Smith | 1:40 |
| 6. New Business | All | 1:45 |

√ Denotes Potential Voting Item

* Denotes Report is Oral

7. Recap – Issues/Assignments

Alison Johnson

1:50

Rotating Agenda Team July:

Beth Soholt
Blaine Poff
Marka Shaw

Upcoming Hot Topics:

August: Long Term Perspective - new products and services and strategic direction
October: Adequate Price Signals
December: Role of the IMM and IMM State of the Market Recommendations

√ Denotes Potential Voting Item

* Denotes Report is Oral

Planning Advisory Committee Summary (Revised)
May 26, 2010

The following are highlights from the May 26, 2010, PAC meeting.

1. MTEP10 Futures – Long-term value based pricing

MISO selected four scenarios for further robustness testing and other study initiatives based on initial production cost runs and PAC input (priority and weighted rankings provided last month by PAC sectors). The four scenarios are:

S1: CARP Business As Usual with High Demand and Energy Growth

S2: CARP Federal RPS

S10: PAC Carbon CAP with Nuclear

S8: PAC Business As Usual with Mid-Low Demand and Energy Growth

PAC members asked about why the scenario S4 (the kitchen sink scenario) which had the highest production cost was not included. MISO agreed to include it if that's what PAC wanted. MISO has asked sector representatives to weight the four scenarios. An additional weighting is also requested for five scenarios (with S4). Responses are due by June 11. MISO would compile the results and present at the June PAC meeting.

2. MTEP review process

Review 1 process for MTEP 10 is pushed back from June to July and Review 2 pushed to August. All other dates remain the same.

MISO is looking for feedback on review form. – minor changes from last year. Also looking for TOC contents review.

Section 9 of the MTEP report will contain RGOS summary – a separate RGOS report will include the details.

3. ITC Out of Cycle Project

On April 14th MISO received an out of cycle request for approval of a transmission project in Michigan. Requested approval date is August 19th. The project is developed pursuant a MIPSC order and a report of the MI Wind Energy Resources Zone Board to deliver wind generated electricity in Region 4. MTEP approval is needed ASAP.

4. Appendix B Inclusion Criteria

The original motion to approve the proposed BPM language changes passed.

Specifically the following motions passed:

“The Planning Advisory Committee approves the revisions to the Appendix B inclusion criteria, as specified in the proposed edits to Section 2.3 (II) of the Transmission Planning BPM (TP-BPM-002).”

The following TDU sector motion passed:

“The TDU Sector Recommends that the Midwest ISO should continue the review and critique of the process to move projects from Appendix C to Appendix B, and that Midwest ISO should first propose appropriate Tariff Language changes for review and approval at future PAC meetings. The Appendix B language for inclusion in the TP BPM should follow the Tariff language changes”.

The following Wind on Wires motion passed:

“The Midwest ISO planning staff will work with Transmission Owners and other stakeholders to perform long-term planning as described in Section 4.4 of this document to develop alternative solutions to one or more [long-term issues](#) where [long-term issues include](#) unsatisfied Base Transmission Requirements and/or potential Transmission Value Enhancements.”

5. Appendix A Inclusion Criteria

MISO presented their proposed schedule at the meeting. MISO now has posted a revised schedule after OMS recommended that PAC slow down the review of Appendix A inclusion criteria. MISO is planning to make a filing on July 15th.

June 7: Stakeholder comments due to Matt Tackett (mtackett@midwestiso.org) on the currently posted Business Practice Manual (BPM). Those documents can be found at the MISO website.

June 9: Midwest ISO will post revised BPM and any corresponding changes to Attachment FF.

June 23: The Planning Advisory Committee will meet to discuss feedback on the posted materials; sectors and stakeholders also will be requested to submit additional written feedback (if desired) by this date.

July 7: A special Planning Advisory Committee meeting will be held to discuss and/or vote on the Midwest ISO’s proposal and any additional feedback/proposals from sectors and stakeholders.

**UNITED STATES OF AMERICA
BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION**

**Midwest Independent Transmission)
System Operator, Inc.**

Docket No: ER10-1361-000

NOTICE OF INTERVENTION OF THE ORGANIZATION OF MISO STATES

I. BACKGROUND

Pursuant to the Commission's Notice issued June 1, 2010, the Organization of MISO States (OMS) hereby intervenes and files these comments in the above-caption docket.

II. NOTICE OF INTERVENTION

Pursuant to Rule 214(a)(2) of the Federal Energy Regulatory Commission's Rules of Practice and Procedure, 18 C.F.R. § 385.214(a)(2), the OMS files its Notice of Intervention in this proceeding. Service of pleadings, documents, and communications should be made on the following:

William H. Smith, Jr.
Executive Director
Organization of MISO States
100 Court Avenue, Suite 315
Des Moines, Iowa 50309

III. COMMENTS

On May 28, 2010, the Midwest ISO filed, pursuant to Section 205 of the Power Act, proposed revisions to its Open Access Transmission, Energy and Operating Reserve Markets Tariff to reflect the allocation of Operating Reserve costs based on Market Load Ratio Share, and to remove language pertaining to zonal and constraint-based allocation, all proposed to be effective August 1, 2010.

The OMS has followed the development of appropriate allocation of operating reserve costs in the Midwest ISO Ancillary Services Market. On November 13, 2008, the OMS expressed concerns to the Midwest ISO regarding ASM cost allocation and requested that the

Midwest ISO analyze and report on the results of the cost allocation methodology one year following the start of the ASM, including the development of recommendations to enhance the cost allocation method. In response, the Midwest ISO conducted a cost allocation study for the period between ASM start (January 6, 2009) and December 31, 2009.¹ In light of the ASM Cost Allocation Study's findings, the Midwest ISO believes the current Grouped Zonal Method should be changed, and that the appropriate replacement allocation method should be based on Market Load Ratio Share, rather than an Adjusted Grouped Zonal Method.²

The OMS continues to analyze the filing and has not yet been able to form conclusions on whether the Market Load Ration Share method yields results reasonably similar to the more precise Adjusted Grouped Zonal Method and whether such results will be consistent over time.

III. CONCLUSION

For the reasons explained above, the OMS gives notice of its intervention and interest in any Commission proceedings with respect to this filing.

Respectfully Submitted,
William H. Smith, Jr.
William H. Smith, Jr.
Executive Director
Organization of MISO States
100 Court Avenue, Suite 315
Des Moines, Iowa 50309
Tel: 515-243-0742

Dated: June 16, 2010

CERTIFICATE OF SERVICE

I hereby certify that I have this day served the foregoing document upon each person designated on the official service list compiled by the Secretary in this proceeding.

Dated at Des Moines, Iowa, this 16th day of June 2010.

William H. Smith, Jr.
William H. Smith, Jr.

¹ Midwest ISO tariff filing, docket ER10-1361, filed May 28, 2010, page 5.

² Midwest ISO tariff filing, docket ER10-1361, filed May 28, 2010, page 7.

The **OMS Governance and Budget Work Group** (G/B WG) is responsible for assessing the reasonableness of the Midwest ISO's new products and services, strategic plan, short-term and long-term incentive plans, and budgets. <http://www.misostates.org/WG9LongTermDevelopmentWIP.htm>.

Work Group Update:

1. Protocol for determining OMS voting on Advisory Committee action items.

The Work Group prepared a memo to the OMS Board. After discussion over a couple of Board meetings, the matter came before the Board for a vote its May meeting. The Board voted to not change the protocol for determining OMS voting on Advisory Committee action items.

2. Transmission Owners Agreement – language regarding maximization of revenues

The Work Group has held discussions with members of the Transmission Owners sector to discuss the language in Article II, Section II, D of the TO Agreement that creates a fiduciary obligation for the Midwest ISO to “maximize transmission service revenues associated with ‘Transmission Services,’ as defined in the Transmission Tariff . . .” The suggestion was made to the TO representatives to drop that phrase from the Section. The WG’s suggestion has not been adopted by the TOs at this point. Concerns on this point were also raised in comments filed by the Illinois Commerce Commission in TOA revisions, ER10-863

3. Long Term Perspective – New Products and Services and Strategic Direction Hot Topic

This is the August hot topic. The GBWG will be following this, along with other OMS workgroups.

4. MISO Capital Budget

MISO’s initial draft will be released later this summer.

OVERVIEW OF EXTENDED LOCATIONAL MARGINAL PRICING

Presentation to OMS Board on June 10, 2010
By Mike Proctor

Purpose of this Presentation

Extended Locational Marginal Pricing (ELMP) has many technical details that are not covered in this presentation.

Instead, this overview attempts to provide sufficient concepts and highlights to provide a basic, but not necessarily a complete, understanding of this new approach to pricing being proposed by MISO.

The Appendix provides numerical examples that go into greater detail, yet these simple examples only illustrate some of the basic concepts.

Primary Difference Between LMP and ELMP

3

- LMP calculates nodal prices based solely on marginal costs from offers associated with an ***infinitesimal increase in energy*** that do **not** include unit commitment costs.
 - As such, LMPs do not necessarily cover all incremental costs submitted by generators, and may require uplifts to make generators whole;
 - LMPs are based on marginal costs calculated for infinitesimal changes and can be decreasing with increasing demands (non-convex total cost function); and
 - Units committed to operate at a fixed block size are not able to set prices.
- ELMP calculates nodal price based on marginal costs from offers associated with an ***incremental increase in energy*** that is large enough to take into account unit commitment costs.
 - As such, ELMPs ***minimize*** the amount of uplift required to make generators whole;
 - ELMPs are calculated using the convex hull of the total cost function and are ***non-decreasing*** with increasing demands; and
 - Units committed to operate at fixed block size are ***able to set prices***.

Costs Associated with Unit Commitment

4

- ELMP adds two elements to LMP associated with unit commitment costs:
 1. **No-load costs**, which are a part of total cost every hour a unit is operating, are incorporated into hourly price through a technique called “convex hull.”
 - Most units have a non-zero, minimum operating level, and the “no-load” cost is defined as $(\text{average cost} - \text{marginal cost})_{\text{at minimum operating level}} * \text{minimum MW}.$ ¹
Example with min = 200 MW: At 200 MW, assume that Total Cost = \$5,000, and Marginal Cost = \$10.
Average cost = $\$5,000 \div 200 = \25 . No load cost = $(\$25 - \$10) * 200 = \$3,000$.
(Gas mileage example when driving at very low speeds)
 - For a single unit, the convex hull incorporates no-load costs into the calculation of incremental cost by setting the convex hull MC equal to the average variable cost over the entire range where marginal cost is less than average variable cost.
(Further graphical illustration in the Appendix – slide 11)
 2. **Start-up costs** are included in prices for the hour(s) that caused a unit to be started.
 - Start-up are the incremental cost associated with getting a unit that is shut down up and running, and do not reoccur each hour that the unit continues to run.
 - MISO proposes allocating these costs to the hours that cause the unit to be committed. (Further explanation of this allocation is needed.)

¹ A total cost curve is non-convex if over the initial operating range of the unit, the average cost is greater than the marginal cost. Micro-Economics text books define this as the “non-economic” range of output because when marginal cost is below average cost, by increasing output you can lower average cost.

Other Characteristics of ELMP

5

- ❑ In real time, calculates prices ex-post (after-the-fact)
 - ❑ Why? Optimizes unit commitment for actual loads.
- ❑ Sets Market Clearing Prices (MCPs)
 - ❑ When MCPs exist, ELMPs will be the market clearing prices.
- ❑ Allows non-dispatchable offers to set the price
 - ❑ See slide 6
- ❑ Can result in “constrained down” payments
 - ❑ Illustration in Appendix – slide 12.
- ❑ May set non-zero congestion prices across non-binding constraint resulting in FTR revenue inadequacy
 - ❑ More details in Appendix - slide 14

Non-Dispatchable Offers and EDR

6

- Independent Market Monitor recommended in State Of the Market reports for past several years that non-dispatchable demand response be able to set energy price.

At a specified price levels blocks of MWs are offered as reductions in demand.

| Price | MW |
|---------------|-------|
| \$75.00 /MWh | 500 |
| \$100.00 /MWh | 1,000 |
| \$125.00 /MWh | 1,500 |
| \$150.00 /MWh | 2,000 |
| \$175.00 /MWh | 2,500 |
| \$200.00 /MWh | 3,000 |

- In an April 22, 2008 order FERC required MISO to address allowing Emergency Demand Response (“EDR”) to set price (EDR offers are non-dispatchable)
 - LMP does not allow non-dispatchable offers to set price (no infinitesimal increase), while
 - ELMP allows non-dispatchable offers to set the nodal prices.

See example in Appendix – Slides 11-13

Why do ELMP?

Arguments in Support

7

- Results in cost causers more fully paying unit commitment cost:
 - When LMPs under collect unit commitment costs, the shortage is allocated to all market participants on a pro-rata basis, ignoring the loads at the nodes that caused the unit commitment.
 - ELMPs that include unit commitment costs are determined hourly to the nodes that caused the unit commitment.
- Reduction of uplift (RSG and Opportunity Costs) improves ability to hedge via futures contracts that settle against RTO markets at various hubs.
 - By moving uplift into prices that are used to settle futures contracts, these costs are covered rather than being an adder that must be paid in MISO settlements.
- ELMP cannot go down when an increase in demand causes a unit to be committed.
 - In LMP pricing, an increase in demand that causes a new resource (generation or demand response) to be committed can also result in a price decrease.
 - ELMPs cannot decrease when demand increases (i.e., based on convex hull functions).
- Reduces volatility in prices.
 - Example: ELMP reduce the price from shortage price when unit commitment based on expectations/forecasts results in a capacity shortage.
 - This occurs because ex-post, the unit commitment is changed and the shortage is eliminated. (This benefit needs to be better explained).

Are there any Downsides?

Major Concern for ELMP

8

- ELMPs and uplifts result in higher costs to load than with the current LMPs and uplifts
 - From examples presented at earlier MISO workshops, some have jumped to the above conclusion.
 - **This is not a proven conclusion.** At the May 26 workshop, MISO presented
 - Small examples where revenue collections from load were the same or less under ELMP
 - MISO day-ahead actual data for a relatively low load day and a relatively high load day.
 - Excluding transmission constraints, LMP with uplift and the ELMP at the reference node track very closely.
 - With transmission constraints, LMP with uplift and ELMP at hubs show greater differences with multiple hours where one is higher than the other.
 - With ancillary services added, for energy prices LMP with uplift and ELMP still track closely, but ancillary service prices differ a bit more.
 - What will actually be the case over an entire year will depend on the circumstances.
 - Many different types of examples yield different results, and how frequently each of these applies is impossible to predict.

Additional “Downsides” Raised by Stakeholders at Workshops

9

- In real time ELMPs are calculated after-the-fact – concern raised about timing of price signals: However
 - The MISO market functions via physical dispatch signals, NOT through sending price signals to suppliers.
 - Suppliers are assured that they will be paid at least the full amount of their offer for their generation. Thus, calculating the prices and potential up-lifts after the dispatch is not an unreasonable approach.
- Creates two additional types of uplifts for:
 - Lost opportunity sales when dispatch is below what a unit being backed down has offered at the ELMP (see example in Appendix on slide 13), and
 - FTR funding when actual flows are below flows in the after-the-fact calculation of ELMPs. (Further questions on this result)
 - However, ELMPs do result in a lower overall level of uplift.

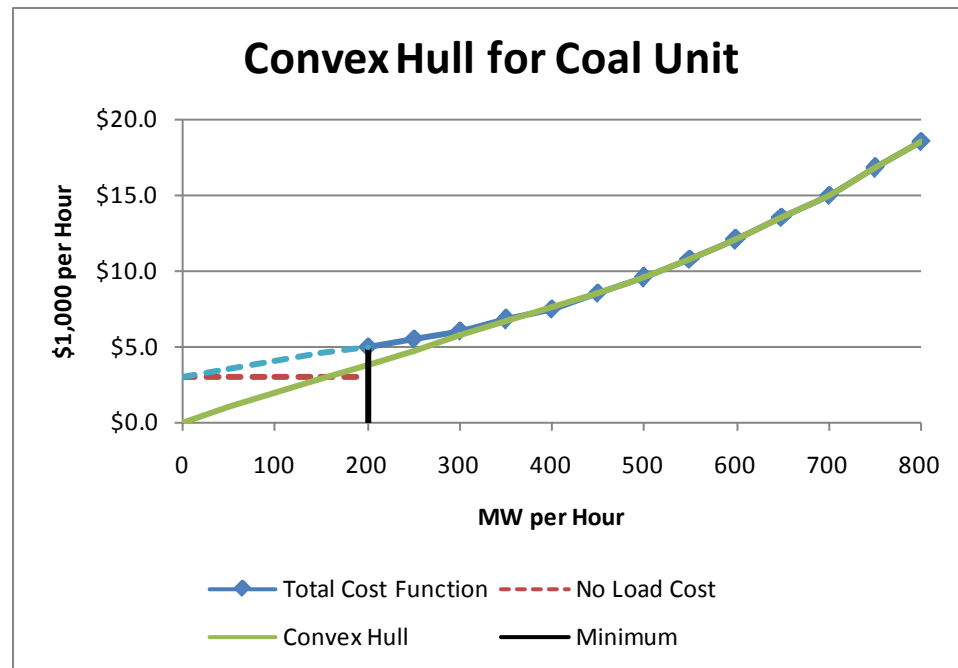
10

Appendix of Examples

No Load Costs and Convex Hull

11

- This graph shows an 800 MW coal unit that has a minimum operating level of 200 MW.
 - The MC at 200 MW is \$10, and $MC \cdot 200 = \$2,000$
 - The Total Cost at 200 MW is \$5,000
 - No-Load Cost is $\$5,000 - \$2,000 = \$3,000$



The convex hull for this unit is a straight line from the origin drawn tangent to the total cost curve, then equal to the total cost curve for higher output levels.

Blocked Increase in Supply: Results Under LMP

12

- Increases in demand from one hour to the next can require a unit not on line to be committed and operated at its minimum operating level.
 - However, LMP does not include the no-load cost associated with the minimum block of power, but instead uses the incremental cost associated with an infinitesimal increase in demand above this minimum block of power.
 - This incremental energy can come from a unit that is constrained down to accommodate the minimum operating level of the newly committed unit.
 - Simple two unit example:

| Unit A | |
|---------|---------|
| Min | 100 |
| Max | 500 |
| MC | \$25 |
| No Load | \$5,000 |

| Unit B | |
|---------|---------|
| Min | 50 |
| Max | 200 |
| MC | \$50 |
| No Load | \$2,000 |

| Hour | Demand | Unit A | Unit B | MC |
|------|--------|--------|--------|------|
| 1 | 500 | 500 | 0 | \$25 |
| 2 | 525 | 475 | 50 | \$25 |

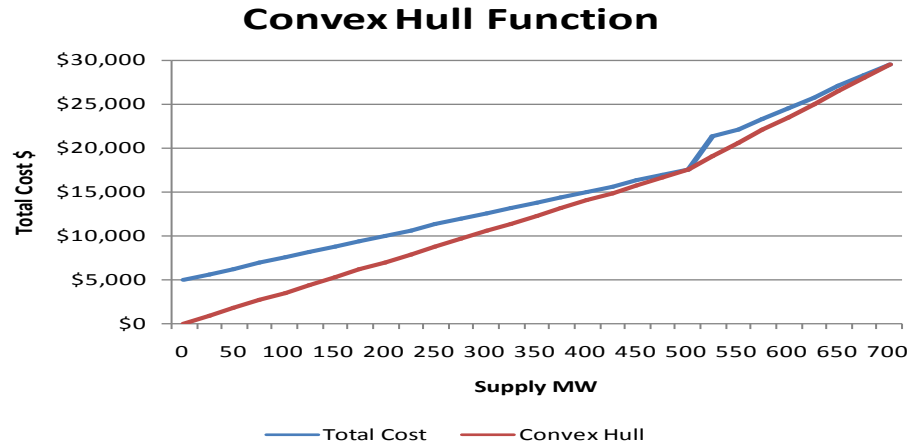


| Hour 2 | No Load | MC*MW | Total Cost | Revenues | <i>Short Fall</i> |
|--------|---------|----------|------------|----------|-------------------|
| Unit A | \$5,000 | \$11,875 | \$16,875 | \$11,875 | \$5,000 |
| Unit B | \$2,000 | \$2,500 | \$4,500 | \$1,250 | \$3,250 |
| Total | \$7,000 | \$14,375 | \$21,375 | \$13,125 | \$8,250 |

Blocked Increase in Supply: Results Under ELMP

13

This graph shows the convex hull for our simple two unit example



The ELMPs are the slopes of the convex hull function:

| | |
|---------|------|
| 0-500 | \$35 |
| 500-700 | \$60 |

- In a rough sense, the ELMP is the average change in price calculated based on a demand step size that is large enough to remove the non-convexities.
- At the ELMP of \$60 for a supply of 525 MW, total revenues are \$31,500 compared to total costs of \$21,375.
- In addition, at a price of \$60, Unit A wants to produce 500 MW, but is constrained down to produce only 475 MW.
 - MISO proposes to make constrained down payments in these situations.
 - For our example this would be 25 MW (the amount constrained down) times the ELMP of \$60; i.e., an additional \$1,500 of uplift.

Possible FTR Revenue Inadequacy in ELMP

14

- A resource may be committed to avoid violation of transmission constraint, but if the resource is committed at its minimum level and the unit upstream from the constraint is backed down, then the dispatched flow over the constraint is now less than the constraint limit.
- ELMPs, unlike LMPs, reflect the locational costs of committing the resources and can result in a non-zero shadow price on the constraint even though it is no longer binding in the actual dispatch after the resources are committed. (We have questions about this result.)
- Revenue inadequacy can occur in the FTRs because the flow across the constraint now having a positive shadow price with ELMP is below the level at which FTRs were sold, if sold at the full capacity of the constraint.
 - One way to deal with this “revenue inadequacy” is to allocate the revenues available on such constraints to the quantity of FTRs sold ; i.e., recalculate the congestion price to equal congestion revenues collected divided by FTRs sold.

1. ASM Zonal Cost Allocation ER10-1361-000 - comments due 6/18/10

The M&TWG has reviewed MISO proposed tariff revisions filed with FERC on 5/28/10. The proposed revisions to the MISO tariff would revise the zonal allocation of the costs of Operating Reserve from the current Grouped Zonal method to the Market Load Ratio Share method and remove language pertaining to zonal and constraint-based allocation. The proposed effective date is August 1, 2010. The M&TWG determined that the impacts of the MISO proposal are split between states. About half the OMS states will see cost increases and half will see decreases. Therefore, the M&TWG recommends that the OMS not take a position on this proposal.

OMS had requested (in 2007 and again in 2008) that MISO analyze the zonal cost allocation method for ancillary service procurement costs one year after ASM went into effect. The OMS was concerned about whether the current cost allocation method would produce unfair results where there are zones whose minimum requirements are less than the market-wide average. MISO issued a study on 3/15/10 Midwest ISO Operating Reserve Cost Allocation Study and the FERC filing in response to these requests.

In the Study, MISO determined that all Reserve Zone minimum requirements are less than the proportional Market Wide requirement and concluded that such zones are not being allocated cost associated with their share of the Marketwide Obligation. The result is to charge more to such zones to better align with cost causation principles. Based on 2009 data used in the 3/15/10 Midwest ISO Operating Reserve Cost Allocation Study, Zones 2 and 5 will see increased costs of \$375,000 per year and \$3,251,000 per year respectively. The other zones will see significant decreases. The two zones with the cost increases include the states of Michigan, Missouri, Illinois, Iowa, Ohio, and Pennsylvania. The map and table below on page 3 illustrate the impacts.

Status: Will continue to monitor developments.

2. MISO/PJM Market-to-Market flow error settlement distribution allocation

MISO is continuing work on a method to allocate significant monies that it expects to receive from PJM for resettlement of transactions (once the pending dispute is resolved at FERC) under the market-to-market congestion management process of the parties' JOA.

Status: No change since last status report.

3. MISO Convex Hull Workshop 3

MISO gave the 3rd of 4 workshops on Convex Hull Pricing (CHP) and Extended Locational Marginal Pricing (ELMP) on 5/26/10. The 4th and final scheduled workshop will be on 7/1/10.

MISO states that it plans to discuss this with FERC after the last workshop in July, continue this year to investigate features of CHP by performing testing on day ahead (DA) and real time (RT) markets with testing assistance from Nexant and UCONN, and assistance from LECG with integrating the DA and RT markets. MISO expects to present a more detailed work plan at upcoming Market Subcommittee meetings, vote on a proposal possibly at the August MSC meeting, and if supported, file with FERC by the end of this year.

The M&TWG met on 6/4/10 to discuss Mike Proctor's presentation to the OMS Board and to better understand ELMP. After the meeting we collected questions on ELMP and expect to send them to MISO by the end of this week. We are also exploring the possibility of setting up a primer in July with MISO to provide an overview of the new pricing approach.

Status: Presentation to OMS Board on 6/10/10. Monitor for potential issues and OMS comments at MSC and FERC.

4. Potential items coming up

MISO presented proposed Reserve Procurement Enhancements at the 6/1 MSC meeting. The MSC passed a motion that MISO should file the changes at FERC. MISO will present a work plan and progress at future MSC meetings. This may be worth our work group looking at as it may affect how cost for operating reserves should eventually be allocated (see item 1 above). One work group member has raised concerns.

MISO presented a revised timeline for its Dispatchable Intermittent Resource Proposal that was to be filed at FERC in May. MISO now plans to present design changes to the MSC on 6/29, post draft tariff language by 7/15, and file the tariff changes in September.

Status: Monitor for potential issues and OMS comments at FERC.

For those interested, please note the following MISO meetings:

MISO Market Subcommittee - monthly meetings (6/29 next mtg)

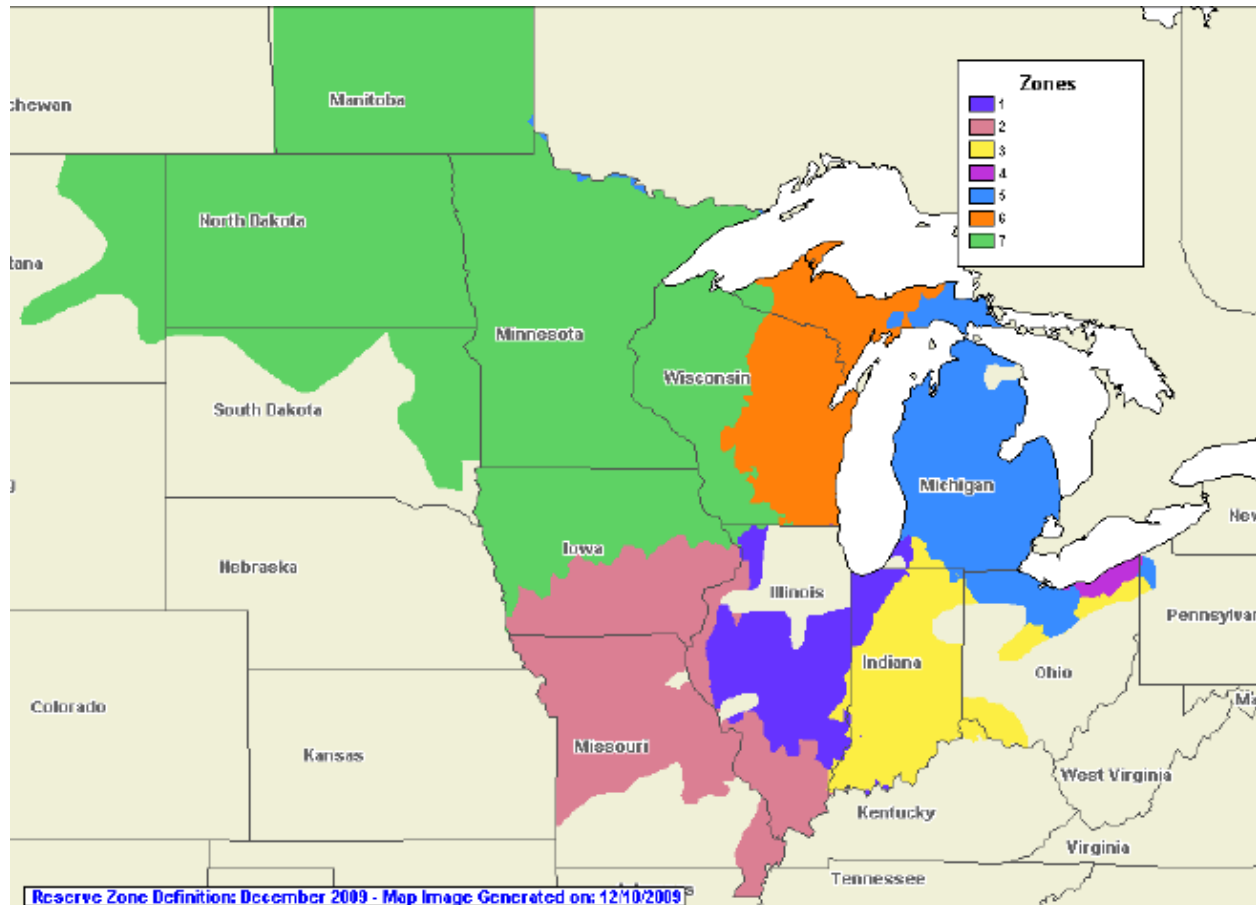
MISO RSG Task Force – monthly meetings (6/30 next mtg)

MISO FTR Working Group – monthly meetings (6/30 next mtg)

The **OMS Markets and Tariffs Work Group** covers: Energy and ASM markets, Market Monitoring and Mitigation. See <http://www.misostates.org/2008Oct14OMSWGstructureapprovedbyOMSBOD.pdf>

Christine Ericson and Bill Bokram, Markets and Tariffs Work Group co-chairs

ASM Zones (2009 data) from 3/15/10 Midwest ISO Operating Reserve Cost Allocation Study



| 2009 Regulation Cost Allocation Comparisons | | | | | | | |
|--|-------------|-------------|---------------|-------------|---------------|-------------|-------------|
| | Zone | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Load Ratio Share | 15.2% | 12.8% | 17.1% | 4.5% | 21.2% | 10.0% | 19.1% |
| Cost Allocation - LRS | \$6,462,257 | \$5,314,672 | \$7,061,367 | \$1,891,821 | \$8,731,187 | \$4,137,070 | \$7,986,113 |
| Cost Allocation - Grouped Zonal | \$7,393,334 | \$4,939,361 | \$8,307,489 | \$2,339,223 | \$5,480,050 | \$4,607,478 | \$8,517,693 |
| Comparison - LRS vs Grouped Zonal | \$ 931,076 | \$(375,312) | \$1,246,122 | \$447,401 | \$(3,251,138) | \$ 470,409 | \$531,580 |
| Cost Allocation - Adjusted Grouped Zonal | \$6,551,464 | \$5,385,478 | \$7,184,389 | \$1,936,642 | \$ 9,002,380 | \$3,795,323 | 7,729,219 |
| Comparison - LRS vs Adjusted Grouped Zonal | \$107,576 | \$69,284 | \$ 97,126 | \$ 7,027 | \$ 298,989 | \$(356,811) | \$(253,368) |
| Comparison - Grouped Zonal vs Adjusted Grouped Zonal | \$(841,749) | \$446,046 | \$(1,123,141) | \$(402,608) | \$ 3,522,201 | \$(812,218) | \$(788,531) |

Table 2. Regulation Cost Allocation Comparisons

OMS Resources Work Group

Status Report to OMS Board of Directors – June 10, 2010

SAWG – RA Construct Discussion

The June 3 SAWG had a very vigorous discussion about the Midwest ISO's Resource Adequacy (RA) construct. These topics were on the "parking lot" section of the issues list and not in the "open" section. The assumed, obvious situation concerns the announced plans for Duke OH and Duke KY to leave. So the discussion was mostly around the RA planning and associated voluntary capacity auction, investment recovery, retail choice states, forward capacity market and mandatory obligations.

Nineteen stakeholders submitted comments to the Midwest ISO. Four states also submitted comments. Many of the previous viewpoints and business models that were previously discussed in the 2 ½ years or so of the SAWG effort were repeated as stakeholder feedback. Some the typical points repeated include: it is hard to recover capital investment in generation with a 26% reserve situation in a recession with low LMPs and negative energy growth, lack of transparency, centralized forecast, lead times too long for adequacy, and location specific capacity price signals. The retail choice concerns of course, and the current 12 month period of commitment planning with the monthly allowance for adjustments.

The presentation by Kevin Larson and some initial proposals identified which address the areas of concern:

- Retail Choice
 - Compare demand forecasts with EDC
 - Continue developing load tracking mechanism
 - True up capacity payments based on load tracking
- Forward Obligation/Market
 - Move from monthly to annual or longer term forward obligation/market
- Retail Choice
 - Compare demand forecasts with EDC
 - Continue developing load tracking mechanism
 - True up capacity payments based on load tracking
- Forward Obligation/Market
 - Move from monthly to annual or longer term forward obligation/market
- Price Transparency
 - Conduct Annual Auction
 - Need more analysis to determine if a mandatory, voluntary, or hybrid approach could work

- Locational Signals
- Explore options for providing better locational signals

Below is the time line from the June 3 meeting for Planning Year 3:

- Determine and develop RA Construct Improvements –May 2010-Aug 2010
- Develop required tariff and BPM changes Aug. –Sept. 2010
- File Tariff changes 10/1/2010
- Update MECT –10/1 –1/1
- Update BPMs –12/1/2010
- Begin new processes for 2011/2012 PY
 - Look for opportunities to phase in changes over future planning years

The next communications are important to this issue.

June 17th SAWG special call 1 pm Eastern

June 18th Special call: Midwest ISO Richard Doying and Todd Hillman to OMS - 1 pm
(details to be confirmed)

Don Neumeyer
Resources WG Chair