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Before the
FEDERAL ENERGY REGULATORY COMMISSION
995th Commission Meeting

Thursday, June 20, 2013
Hearing room 2C
888 First Street, N.E.
Washington, D.C.20426

The Commission met in open session, pursuant to
notice, at 10:07 a.m., when were present:

COMMISSIONERS:

JON WELLINGHOFF, Chairman
PHILIP MOELLER, Commissioner
JOHN NORRIS, Commissioner
CHERYL A. LaFLEUR, Commissioner
TONY CLARK, Commissioner

FERC STAFF:

KIMBERLY D. BOSE, Secretary
JIM PEDERSON, Chief of Staff
JOSEPH McCLELLAND, Director, OEIS
MICHAEL BARDEE, Director, OER
DAVID MORENOFF, Acting General Counsel
JEFF WRIGHT, Director, OEP
MICHAEL McLAUGHLIN, OEMR
JAMIE SIMLER, Director, OEPI
NORMAN BAY, Director, OE

1 PRESENTERS:

2 A-4: Coordination Between Natural Gas and
3 Electricity Markets

4 VALERIA ANNIBALI, OE

5 JACOB LUCAS, OER

6 OSCAR SANTILLANA, OEMR

7 BUKOLA ADETAYO, OEP

8 A-3: Capacity Deliverability Across
9 MISO/PJM Seam

10 MR. CLAIR MOELLER, MISO

11 MR. ANDREW OTT, PJM

12 COMMISSIONER KARI BENNETT, OMS-OPSI

13 CHAIRMAN PHIL MONTGOMERY, OMS-OPSI

14 COMMISSIONER GREG WHITE, OMS-OPSI

15 DR. DAVID PATTON, MISO Market Monitor

16 DR. JOSEPH BOWRING, PJM Market Monitor

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25 COURT REPORTER: Jane W. Beach, Ace-Federal Reporters, Inc.

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1 P R O C E E D I N G S

2 (10:07 a.m.)

3 CHAIRMAN WELLINGHOFF: All right, if we could
4 bring this meeting to order, please. Good morning,
5 everybody. This is the time and place that has been noticed
6 for the open meeting of the Federal Energy Regulatory
7 Commission to consider matters that have been duly posted in
8 accordance with the Government in Sunshine Act. Please join
9 me for the Pledge of Allegiance.

10 (Pledge of Allegiance recited.)

11 CHAIRMAN WELLINGHOFF: Well since the May 16th
12 open meeting we have issued 81 Notational Orders, up from 57
13 last month. And I am going to throw our Secretary a curve
14 here.

15 Kim, what meeting number is this?

16 (Laughter.)

17 CHAIRMAN WELLINGHOFF: Of the meetings that the
18 Commission has had?

19 SECRETARY BOSE: It is the 995th meeting.

20 CHAIRMAN WELLINGHOFF: 995th meeting.

21 SECRETARY BOSE: Thank you for that curve ball.

22 (Laughter.)

23 CHAIRMAN WELLINGHOFF: So as I understand from
24 Commissioner LaFleur, who we discussed this yesterday, the
25 December meeting will be our 1,000th meeting. And I

26

1 actually hope to be here then--I may be here then, you don't
2 know. So--

3 (Laughter.)

4 CHAIRMAN WELLINGHOFF: So in any case, if we do
5 we will have a party.

6 In any case, before we begin today's business I
7 understand that Commissioner LaFleur has a personnel
8 announcement to make, and also has a very fancy T-shirt on,
9 as well.

10 COMMISSIONER LaFLEUR: Yes. My announcement is
11 not about the Bruins. I have already kind of made that.
12 But I just wanted to take one second to introduce, we have a
13 summer intern in our office this summer who is here being
14 financed by the Princeton In Community Service Program,
15 Daniel Jang. He is a sophomore at Princeton in Operations
16 Research. I'm looking all over for him. He's right there.
17 He is smart enough not to sit on the bench, the
18 uncomfortable bench seats.

19 (Laughter.)

20 COMMISSIONER LaFLEUR: But we welcome him to the
21 Commission.

22 CHAIRMAN WELLINGHOFF: Thank you. And also we're
23 going to have some presentations later on, but I want to
24 recognize a couple of our colleagues that we have from our
25 fellow commissioners. We have Chairman Phillip Montgomery
26

1 from Wisconsin. Phil, thank you for being here.

2 And we have Commissioner Greg White from
3 Michigan. Greg. I want to note that actually Greg is truly
4 dedicated, because Greg got married yesterday. So to come
5 here today, I don't know if I would have done that, Greg,
6 myself.

7 (Laughter.)

8 CHAIRMAN WELLINGHOFF: And we also have
9 Commissioner Kari Bennett. Kari. And Ed Finley from North
10 Carolina, as well. Ed, good to see you here.

11 So thank you all for attending this morning, and
12 we look forward to your participation and presentations
13 later on in the agenda.

14 So, Madam Secretary, then, if there is no other
15 announcements ahead of the Consent Agenda, if we could
16 please move to the Consent Agenda.

17 SECRETARY BOSE: Good morning, Mr. Chairman, and
18 good morning, Commissioners.

19 Since the issuance of the Sunshine Act Notice on
20 June 13th, 2013, no items have been struck from this
21 morning's agenda. Your Consent Agenda is as follows:

22 Electric Items: E-1, E-2, E-3, E-4, E-5, E-6,
23 E-7, E-8, E-9, E-10, E-11, E-12, E-13, E-14, E-15, and
24 E-16.

25 Hydro Items: H-1, H-2, and H-3.

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1 Certificate Items: C-1 and C-2.

2 As required by law, Chairman Wellinghoff is not
3 participating in Item E-1. Also as to E-1, Commissioner
4 Clark is dissenting with a separate statement.

5 As to E-2, Commissioner Clark is concurring with
6 a separate statement.

7 As to E-3, Commissioners Norris and LaFleur are
8 dissenting in part with a joint separate statement.

9 As to E-4, Commissioners Norris and LaFleur are
10 dissenting in part with a joint separate statement.

11 As to E-16, Commissioner Clark is dissenting.

12 As to H-1, Commissioner Moeller is concurring
13 with a separate statement.

14 We are now ready to take a vote on this morning's
15 Consent Agenda. The vote begins with Commissioner Clark--

16 CHAIRMAN WELLINGHOFF: And prior to doing that,
17 Madam Secretary, does anybody have any comments on any of
18 the Consent Agenda items? Commissioner LaFleur, did you
19 have something?

20 COMMISSIONER LAFLEUR: It seems somewhat
21 anticlimactic as we're ready for the vote, but I just wanted
22 to note, even though we didn't put them on the docket
23 because we have so many imminent guests this morning, we
24 have three big reliability orders. The approval of the
25 bifurcation of WECC, which is a big step they've been
26

1 working on, and the rate treatment for that. NERC's request
2 to retire 34 requirements and reliability standards, and
3 Commission staff chipped in 41 directives that were outdated
4 or already met. And also the approval of the Fine Fixed
5 Track and Report report that NERC did in largely approving
6 their request to enhance and expand the program.

7 Also, just to advertise, we have a couple that
8 really will be built on in a couple of tech conferences.
9 July 9th we will be looking at some of NERC's ongoing
10 efforts to build on their compliance and standards work, and
11 the priorities for the coming year.

12 And on September 25th, another aspect of
13 reliability looking at capacity markets. So thank you to
14 the staff for getting out all those notices and working on
15 that.

16 Thank you.

17 CHAIRMAN WELLINGHOFF: Thank you, Commissioner
18 LaFleur. Does anybody else have any comments on any of the
19 items on the Consent Agenda?

20 (No response.)

21 CHAIRMAN WELLINGHOFF: If not, I think, Madam
22 Secretary, we are now ready to vote. Thank you.

23 SECRETARY BOSE: And the vote begins with
24 Commissioner Clark.

25 COMMISSIONER CLARK: Noting my dissents in E-1
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1 and E-16, I vote yes.

2 SECRETARY BOSE: Commissioner LaFleur.

3 COMMISSIONER LaFLEUR: Noting my partial dissents
4 in E-3 and E-4, I vote aye.

5 SECRETARY BOSE: Commissioner Norris.No

6 COMMISSIONER NORRIS: Noting my partial dissents
7 on E-3 and E-4, I vote aye.

8 SECRETARY BOSE: Commissioner Moeller.

9 COMMISSIONER MOELLER: Noting my concurrence in
10 H-1, I vote aye.

11 SECRETARY BOSE: And Chairman Wellinghoff.

12 CHAIRMAN WELLINGHOFF: Yes, noting my recusal in
13 E-1, I vote aye.

14 And if we could then, Madam Secretary, move on to
15 the Discussion Agenda.

16 SECRETARY BOSE: The first item for presentation
17 and discussion this morning is Item A-4 concerning the
18 coordination between natural gas and electricity markets.
19 There will be a presentation by Valeria Annibali from the
20 Office of Enforcement, and Jacob Lucas from the Office of
21 Electric Reliability. They are accompanied by Oscar
22 Santillana from OEMR; and Bukola Adetayo, from OEP.

23 (A PowerPoint presentation follows:)

24 MS. ANNIBALI: Good morning, Mr. Chairman and
25 Commissioners.

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1 CHAIRMAN WELLINGHOFF: Good morning.

2 MS. ANNIBALI: This presentation reports the
3 highlights from staff's second Quarterly Update on Gas-
4 Electric Coordination Activities. The full report will be
5 posted publicly on the Commission's website.

6 MR. LUCAS: This presentation captures events
7 during the period from March 2013 to June 2013. We
8 highlight national and regional efforts on natural gas and
9 electric coordination, and include an overview of recent
10 Commission activities.

11 At the national level, there continues to be
12 significant activity. On May 22nd, the North American
13 Electric Reliability Corporation, or NERC, released its
14 Phase II Special Assessment on Natural Gas and Electric
15 Power Interdependency.

16 It focuses on vulnerabilities that can affect
17 bulk power system reliability. As part of that Special
18 Assessment, NERC recommends incorporating fuel availability
19 into national and regional reliability assessments.

20 The NERC Special Assessment also recommends
21 increased coordination and sharing of operational planning
22 information through formalized communication. Next steps
23 include identifying how risk assessments are performed in
24 different regions, and using this information to develop
25 recommendations for a uniform seasonal and long-term
26

1 reliability assessment process for consideration by the NERC
2 Planning Committee.

3 There was also a Congressional hearing on May
4 9th, and a Senate Forum on May 14th, 2013, addressing
5 increased interdependence of the natural gas and electricity
6 sectors.

7 Other national trade organizations continue, both
8 through the trade association and via individual members, to
9 outreach with the RTOs and ISOs. Many of the trade
10 associations' individual members continue to also be
11 involved in the regional working group efforts and, in some
12 instances, proceedings before the Commission.

13 Turning to the individual regions, each region
14 continued some level of engagement and focus on issues of
15 gas-electric coordination. This information is based on
16 staff outreach and monitoring of the regional gas-electric
17 coordination task force meetings.

18 We start with New England. Efforts in New
19 England continue to be led by the New England States
20 Committee on Electricity, or NESCOE, Gas-Electric Focus
21 Group.

22 The most recent Focus Group monthly
23 communication meetings focused on evaluating last winter's
24 challenges and identifying short-term solutions for next
25 winter, which included three proposals to ensure adequate
26

1 fuel supplies for gas-fired and dual gas/oil-fired
2 generators next winter.

3 One proposal by ISO-New England would create a
4 regional energy inventory of 4.2 million barrels of oil
5 equivalent. ISO-New England's plan would rely on oil-fired
6 units, dual-fuel generators, and a wind demand response--
7 winter demand response program.

8 NESCOE has also formed natural gas and electric
9 market subcommittees to examine existing market issues in
10 the region. The subcommittees are continuing to investigate
11 a common information platform to better employ communication
12 systems to enhance opportunities to buy, sell, nominate, and
13 schedule natural gas supply during the less liquid times of
14 the gas markets.

15 In addition, Black & Veatch presented its
16 findings from the phase of its New England Pipeline Capacity
17 Study. Phase III of the Black & Veatch Report is planned
18 for completion in September 2013 and will update
19 infrastructure cost estimates and provide recommended
20 natural gas infrastructure and electric solutions for the
21 region.

22 In addition, ISO-New England continues to
23 coordinate with stakeholders through the Electric/Gas
24 Operations Committee meetings. During the latest March
25 meeting, the Committee discussed gas and electric post-

26

1 winter operations, scheduled 2013 maintenance and system
2 updates.

3 Turning to the Mid-Atlantic, progress continues
4 on the Eastern Interconnection Planning Collaborative, or
5 the EIPC Study. This study will focus on a multi-regional
6 natural gas/electric analysis of major interstate,
7 intrastate, and local natural gas infrastructure serving the
8 Eastern Interconnection.

9 Recently, the American Gas Association was asked
10 to provide a local distribution company perspective. The
11 final documents for a request for proposal are being
12 completed with stakeholder outreach planned for June and a
13 final RFP to be issued by mid-July. Final work is scheduled
14 to be completed by May of 2015.

15 The New York ISO staff continues its efforts
16 through the Electric-Gas Coordination Working Group. Their
17 working group reviewed gas-fired generation operating status
18 during the Martin Luther King, Jr., holiday cold snap.
19 Additionally, the New York ISO requested a short-term
20 outlook "static" study to be conducted by Levitan &
21 Associates and is nearing completion.

22 PJM held its first meeting of a newly formed
23 Gas/Electric Senior Task Force on April 30th of 2013.
24 During the meeting, the task force began creating a work
25 plan including a charter and discussed gas/electric
26

1 issues.

2 Their mission is to focus on the exploration and
3 prioritization of gas/electric issues that are not already
4 being addressed by other PJM market and financial groups.
5 The task force expects to be active over the next three to
6 four years.

7 In the Midwest, the MISO's Electric-Natural Gas
8 Coordination Task Force continues to meet monthly to discuss
9 MISO's resource adequacy construct and to discuss criteria
10 for the potential designation of critical generators.

11 In addition, the Task Force announced Phase II of
12 the MISO Gas-Electric Infrastructure Interdependency
13 Analysis which will examine the potential impact specific
14 natural gas delivery failures may have on electric
15 reliability. The study is expected to be completed by
16 2014.

17 SPP has established a Gas-Electric Coordination
18 Task Force. The Task Force is developing coordinated
19 communication plans for use during gas supply events, and is
20 identifying any single-point-of-failure concerns in the SPP
21 region.

22 ERCOT is working with the Texas Pipeline
23 Association and the Texas Railroad Commission to incorporate
24 the location of significant gas facilities into the ERCOT
25 electric network model. This will facilitate ERCOT's study
26

1 of the potential impact of electric outages on pipelines and
2 pipeline outages on generators with plans to develop this
3 analysis in 2014.

4 Regular discussions continue in the Southeast to
5 ensure adequate coordination between the natural gas and
6 electric industry.

7 The West has a number of subregional natural gas-
8 electric coordination initiatives.

9 The Western Gas-Electric Regional Assessment Task
10 Force issued an RFP for its Western Natural Gas-Electric
11 Infrastructure and System Flexibility Assessment introduced
12 last quarter. Responses to the RFP are due by July 3rd,
13 2013.

14 During the second quarter of 2013, the WECC Joint
15 Guidance Committee discussed the recent FERC technical
16 conferences and the NERC Phase II report.

17 Additionally, the Department of Homeland Security
18 and FEMA conducted a successful Natural Gas-Electric
19 Emergency Exercise during April examining emergency
20 protocols in place during an emergency and energy disruption
21 scenario. For the first time, the emergency exercise
22 included electric and gas utilities, and WECC
23 representatives. WECC is likely to hold a follow-up Natural
24 Gas-Electric conference later in 2013.

25 ColumbiaGrid's Gas-Electric Interdependencies
26

1 Study Team finalized its I-5 Corridor Study investigating
2 electric transmission reliability issues associated with a
3 hypothetical limitation of gas supply to electric
4 generators. The final study conclusions reaffirmed
5 preliminary findings that the electric transmission system
6 performed acceptably under this "what-if?" scenario.

7 Also in the Pacific Northwest, natural gas
8 pipelines and electric utilities continue to discuss
9 enhanced communications and coordination through the Power
10 and Natural Gas Planning Task Force meetings.

11 As part of the Northwest Mutual Assistance
12 Agreement, a collaborative Emergency Planning Committee was
13 formed to discuss winter preparedness. The group met on
14 June 12th, 2013, to discuss how the group would function in
15 an emergency situation and to learn how the new
16 communications package would work.

17 The California ISO continues to participate in
18 discussions with the Western Electric Industry Leaders
19 Group, providing inputs to the Western Interstate Energy
20 Board gas infrastructure assessment.

21 The California ISO is also exploring best
22 practices in communicating with natural gas pipelines and
23 coordinating electric system and natural gas pipeline
24 operations with other RTOs and ISOs.

25 A new group was created in the Southwest called
26

1 the Desert Southwest Task Force, with its initial meeting
2 held on May 23rd. During the initial meeting, stakeholders
3 provided an overview of gas-electric coordination issues and
4 began identifying immediate issues in the Southwest and
5 potential next steps. The Task Force had its second meeting
6 on June 18th, and it plans to continue meeting monthly.

7 Our final area to report on is activity at the
8 Commission. As you know, the Commission held two meetings:
9 a technical conference in April, and a special Commission
10 meeting in May.

11 From staff's perspective, the issues raised at
12 the April technical conference were familiar and included
13 concerns in some regions regarding the natural gas operating
14 day start time, the mismatch between the Day-Ahead electric
15 commitments and the timely nomination cycle for natural gas
16 transportation, and the potential need for additional
17 standard natural gas pipeline nomination opportunities.

18 Participants also suggested that additional
19 services offered by pipelines increase flexibility in
20 constrained markets, but could be improved with more relaxed
21 requirements.

22 At the special Commission meeting in May,
23 representatives from each RTO and ISO, including ERCOT,
24 shared their experiences from the winter and spring and
25 described the progress made in refining existing practices
26

1 to provide better coordination between the natural gas and
2 electric industries and ensure adequate fuel supplies.

3 The RTOs and ISOs addressed natural gas
4 transportation concerns that emerged during the winter
5 heating season, and identified fuel-related generator
6 outages that occurred during the winter and spring. Both
7 the New York ISO and ISO-New England noted that they faced
8 operational challenges in January and February.

9 More generally, representatives from each RTO and
10 ISO discussed common issues, including a growing dependence
11 on gas-fired generation, as well as a need to improve
12 situational awareness, to address when communications are
13 allowed, and to consider market rule changes.

14 Pipelines continued to file applications to
15 expand pipeline capacity and increase operational
16 flexibility.

17 Gulf South, Gulf Crossing Pipeline Company, and
18 Sierrita Gas Pipeline proposed to construct facilities to
19 provide new or expanded firm transportation service to
20 electric power generators.

21 Approximately 1.6 Bcf per day of overall design
22 capacity is being added to the Southeast, the Midwest, and
23 the West. These cases are still pending.

24 In addition, several interstate natural gas
25 pipelines made filings to provide increased service
26

1 flexibility. These changes are designed to allow shippers
2 additional nomination opportunities beyond the four standard
3 NAESB nomination cycles. The Trailblazer pipeline case is
4 still pending.

5 Filings made by the electric industry to address
6 the increasing reliance on natural gas-fired generators are
7 from the Northeast region and include a complaint by
8 generators, a rule change by the ISO-New England, and a
9 filing by a generator to recover fuel costs. More
10 information about these filings is included in the online
11 report.

12 Staff's next quarterly report is due in October.
13 Staff will continue regular outreach with the national and
14 regional entities regarding their efforts on gas-electric
15 coordination.

16 This concludes today's presentation of the second
17 Quarterly Update on Gas-Electric Coordination Activities,
18 and we would be happy to answer any questions you may have.

19 CHAIRMAN WELLINGHOFF: Thank you, Jacob and
20 Valeria. I want to thank all the members of your team for
21 this report that you've provided to us.

22 Colleagues, questions? Phil?

23 COMMISSIONER MOELLER: Well thank you,
24 Mr. Chairman. First I want to thank you for giving us time
25 on the agenda. I know that we have a busy day today, and
26

1 allowing this issue to be discussed and updated is part of
2 the warm-up act for the next set of discussions and is
3 appreciated.

4 Secondly, to the team led by Caroline Daly, the
5 continued work you're doing on this, a lot of progress but
6 we still have a long way to go.

7 Third, to thank the regions and the subregions
8 for the leadership they're showing on this issue, continuing
9 to keep it in front of people so that the discussions and
10 the communication flows on trying to deal with this
11 multitude of issues related to the larger topic.

12 Finally, I want to thank the Department of Energy
13 for agreeing to fund the Icepick Study that will be a
14 comprehensive look at how the regions basically in the East
15 are dealing with this collectively.

16 So again, thank you for the time to discuss this
17 topic.

18 CHAIRMAN WELLINGHOFF: You're welcome. John?

19 COMMISSIONER NORRIS: Thank you as well for your
20 work on this, appreciate it.

21 One of my concerns in this area is that we
22 maximize our current infrastructure first before we start
23 putting new pipe in the ground, and I think you have
24 addressed that in your report on the capacity release and
25 the electric/gas scheduling procedures and the way to
26

1 maximize the current infrastructure.

2 And then secondly, I think it is important for
3 regions to think about what type of fuel mix is desirable,
4 or makes sense for them, going forward so that we get cost
5 efficient generation going forward, and also reliable power.
6 But also, to take into account those states who have made
7 decisions on renewable energy, low-carbon energy, both
8 present and future decisions that may be made.

9 I think in New England this is most serious, from
10 the data we have, and in discussions with folks around the
11 country. You cite the Black & Veatch study and the Senate
12 committee forum on this. I was curious if those initiatives
13 are considering also ways to maximize the core
14 infrastructure? Also, ways to consider what is a smart or
15 appropriate fuel mix going forward, so that we address those
16 two issues before we start investing in long-term
17 infrastructure and assets that consumers will pay for for
18 some time.

19 MS. ANNIBALI: Thank you for the question.

20 The Black & Veatch study, in the second phase
21 that was presented recently, looked at a historical look-
22 back of demand for natural gas from different sectors. That
23 was one of the first steps into trying to analyze what
24 future demand would look like.

25 The Phase III that Jacob mentioned will explore
26

1 further how much demand is expanded in the region, and what
2 type of fuel mix will be needed to meet that demand from the
3 different sectors.

4 In addition to that, the study will also look at
5 how much additional pipeline capacity is needed to reduce
6 constraints in the region.

7 One of the issues you bring up, Commissioner, is
8 utilizing existing capacity through secondary services. The
9 study does not look at that. It instead looks at the
10 proposed Algonquin incremental pipeline expansion, and it
11 looks at the costs involved and how much would be optimal to
12 meeting the demand to determine the size of the expansion
13 needed.

14 And it also looks at alternative fuel supplies,
15 using LNG imports through Canada as well as the
16 Massachusetts terminal at Everett, as well as how much dual-
17 fuel capability and imports of electricity that could be
18 imported from Canada as well.

19 COMMISSIONER NORRIS: The second part was what
20 the Senate forum is looking at. Is that all the Black &
21 Veatch?

22 MS. ANNIBALI: That was the Black & Veatch.

23 COMMISSIONER NORRIS: Okay, that's adequate.

24 Thank you.

25 CHAIRMAN WELLINGHOFF: Thank you, John. Cheryl.
26

1 COMMISSIONER LaFLEUR: Well I second and adopt
2 all Commissioner Moeller's thanks to far and wide. I know a
3 lot of work is going on, particularly in New England right
4 now, working toward next winter. And we look forward to
5 those filings, and thank staff for keeping on top of this.
6 Thank you, very much.

7 CHAIRMAN WELLINGHOFF: Thank you, Cheryl. Tony.

8 COMMISSIONER CLARK: No questions, but thanks for
9 the report.

10 CHAIRMAN WELLINGHOFF: Thank you all, again. We
11 appreciate it very, very much.

12 Madam Secretary, if we could move on to our next
13 discussion item.

14 SECRETARY BOSE: The next item for presentation
15 and discussion this morning is Item A-3. On April 2nd,
16 2013, the Commission issued an Order requesting
17 presentations by MISO, PJM, the Organization of MISO States,
18 the Organization of PJM States, and the Market Monitors for
19 MISO and PJM at the Commission meeting addressing, number
20 one, the progress of their efforts working with stakeholders
21 to address whether market rules and operating protocols
22 concerning the transfer of capacity between MISO and PJM act
23 as barriers to delivery of generation capacity between MISO
24 and PJM markets.

25 Number two, the status of any remaining barriers
26

1 to the transfer of capacity between those markets.

2 And number three, the measures that the
3 Commission should take to address any such barriers that may
4 exist.

5 In that Order, the Commission requested this
6 information based on the numerous comments submitted in
7 response to the Commission's June 11th, 2012, Notice of
8 Request for Comments; and in recognition of the Joint and
9 Common Market Initiative Stakeholders discussions that were
10 addressing these issues.

11 The Commission welcomes the presenters and would
12 like to thank them for travelling here today to provide the
13 Commission with this valuable information.

14 I will now introduce today's speakers in the
15 order in which their presentations will be given. In the
16 interest of time, I will ask that discussion and questions
17 be held to the end of the final presentation.

18 Our first presentation today will be given by
19 Mr. Clair Moeller from MISO. Next, Mr. Andrew Ott from PJM.
20 Following Mr. Ott, Commissioner Kari Bennett from the
21 Indiana Regulatory Commission, providing a joint open
22 statement for OMS and OPSI. Following Ms. Bennett's opening
23 statement, a joint presentation from Chairman Phil
24 Montgomery from the Wisconsin Public Service Commission, and
25 Commissioner Greg White from the Michigan Public Service
26

1 Commission. They are also representing OMS and OPSI.

2 Next, Mr. David Patton, Market Monitor for MISO.

3 And our final presentation will be given by Dr. Joseph

4 Bowring, Market Monitor for PJM.

5 CHAIRMAN WELLINGHOFF: Thank you, Madam

6 Secretary.

7 SECRETARY BOSE: Mr. Moeller, you may begin your

8 presentation. Thank you.

9 (A PowerPoint presentation follows:)

10 MR. CLAIR MOELLER: Thank you.

11 Thanks for the opportunity to present today to
12 talk about issues as we move towards a more complicated
13 electric grid, particularly as we work our way through the
14 gas-electric coordination and some of the resource adequacy
15 challenges that we expect to face in the 2015-2016 kind of
16 time frame.

17 Importantly, a previous Commission nudged the two
18 markets of MISO and PJM to work harder at joint and common
19 market issues some years ago. That nudge produced
20 significant consumer benefits.

21 Of late, our progress towards achieving those
22 consumer benefits has retarded a little bit as other
23 priorities have gotten in our way. MISO's frustration with
24 the current set of priorities in the Joint Common Market are
25 twofold.

26

1 First, we are concerned about the fact that most
2 of the priorities that we have been addressing in that forum
3 are fairly short-term in nature. And our concern about
4 ensuring that transmission is not an impediment to efficient
5 markets is really about the longer term issue as we work our
6 way through the capacity overhang that we have today into
7 what we expect to be a capacity shortfall in the 2016 kind
8 of time frame.

9 It would be our hope that important issues that
10 are not urgent can be put on the priority list so we can
11 solve them, get the questions asked and answered in a timely
12 way so that they don't become urgent and then unsolvable as
13 a result of our tardiness in getting to those issues.

14 A second issue that we are concerned about--and
15 this is not only in the Joint and Common Market program,
16 this is stakeholder processes in general. There's some
17 tension between the interested public and the public
18 interest in terms of how those priorities are set.

19 We are very grateful that OPSI and OMS have
20 decided to weigh in on that and help us with that question
21 about public interest versus the interested public. It is
22 very important for people to show up and participate in
23 those venues, but what you get is influence from the people
24 who do participate. Again, we are grateful that the states
25 are stepping forward to help us remember the consumers in
26

1 all of this to ensure that their voice is sufficiently
2 heard.

3 A little history lesson on the formation of the
4 MISO market. The MISO market is made up of what was
5 previously 26 balancing authorities. Each of those
6 balancing authorities had a control system that looked only
7 at the dispatch of their own system, and had essentially no
8 observability of the neighboring systems.

9 That was the premise of the Pro Forma Open Access
10 Tariff; that fairly rudimentary energy management kind of
11 look at the world. As we stood up our market, we combined
12 all of those balancing authorities in what used to be point-
13 to-point energy transactions that looked at the incremental
14 feasibility because there was no observability of what was
15 going on in the neighbor's system. We converted that to
16 network service and unlocked an enormous value for our
17 customers.

18 Essentially what we're asking to consider is
19 taking that same set of strategy and that same set of tools
20 and looking at applying the same notions to look at an
21 intramarket network service. So the generators who would
22 still have to schedule would know in advance whether or not
23 transmission was or was not available as they contemplated
24 their future.

25 We think that is achievable based on the new tool
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1 set that we have designed since 1996. Essentially and
2 importantly, the market-to-market redispatch that we've
3 already implemented to great success is a tool that allows
4 us to coordinate our dispatch in ways that would allow and
5 enable this kind of network service.

6 The transmission service will not answer
7 important market design questions that remain. Market
8 participants on both sides of the boundary between us have
9 different complaints about the other market. Generators in
10 the MISO market complain that because of the capacity
11 construct in the PJM market they have an unfair advantage in
12 the energy market inside MISO.

13 The reciprocal is also true. Where generation
14 inside PJM worries that because of the rate-based generation
15 inside MISO there is an unfair advantage on the capacity
16 market. Those issues aren't going to go away as we remove
17 transmission as a barrier to efficient markets. We will
18 still have to work on those things. But this Commission and
19 every Commission before it in my career we've been given the
20 advice to try to take transmission away from the barrier to
21 efficient markets. We think this is simply another step in
22 that way.

23 We have made progress. In the beginning, before
24 the original Joint and Common Market, there was not a lot of
25 conversation between MISO and our neighbors. The nudge we
26

1 got to consider Joint and Common Market has helped
2 substantially. Our stakeholders' interest in participating
3 in markets besides their own has led us to increasing
4 coordination between us and PJM that has resulted in an
5 increase in capacity transaction across the border.

6 That is a good thing. That is a harbinger of the
7 good things that can happen if we make transmission less of
8 an impediment to enable more of those kinds of economic
9 dispatches. So essentially if you look at the slide, we're
10 in the center right now. And what we are asking about is,
11 are there ways that we can safely move towards the right and
12 essentially give all customers access to the network on a
13 network basis?

14 We believe we can do that reliably because we've
15 proven we can do it reliably in both markets, as we
16 eliminated the balancing authorities and created one big one
17 and moved all of our customers to network service.

18 The other important thing about across-border
19 network service is it will take--the way we operate the
20 network and make it consistent with what we think the
21 directives are in Order 1000's Cross-Border Planning,
22 essentially we read Order 1000 to indicate we should do
23 single-network planning between us and our neighbors.

24 We think that network service and single network
25 planning are coincident, and that in fact the planning
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1 protocols that we have been asked to adopt, it's important
2 to operate the network in the same way. And so we think
3 that is an advantage of what is happening here.

4 Importantly, as we move into the period of tight
5 capacity, gas/electric coordination, additional renewables,
6 demand-side management, we want to ensure that we can make
7 the system and its rules as flexible as we can for our
8 market participants, both generation and loads. And it is
9 that flexibility that network service brings; that point-to-
10 point is less flexible by design. So that is why we are
11 interested in pursuing this as a tool to allow us to think
12 about those other market rules and market issues.

13 And transmission, again, removes itself from the
14 front row and sits safely in the back row where I would
15 prefer to be and not be a barrier to efficient markets.

16 The resource diversity is important to us,
17 particularly as we move into the tight supply. We have
18 about 8,000 megawatts of natural gas-fired generation in our
19 generation interconnection queue. Our neighbors to the East
20 have more like 40,000 sitting on the Marcellus Shale. The
21 opportunity for gas-by-wire in future years is an important
22 thing we want to explore to see if that is the least-cost
23 alternative for consumers in our footprint.

24 Again, having transmission products that allow
25 people to do that planning and understand what that need is
26

1 we think is an important way to proceed.

2 And finally, later in this series of
3 presentations the Organization of MISO States and
4 Organization of PJM States will enumerate four important
5 questions that we think can form the basis of a schedule
6 that we can work towards to work out way through this
7 process.

8 Again, as we look at it we would like to have
9 these questions asked and answered going into 2016 when we
10 see the capacity tightening the most. So we have got time
11 to work on this in a deliberate way.

12 If we can work our way through these questions in
13 2014, we can make adjustments to tariffs in 2015 so we can
14 have new rules in place should the new rules show to be
15 beneficial for consumers. We can have them in place in late
16 2015-2016, so we can move on to the future with as much
17 flexibility as we can muster.

18 We have had preliminary discussions around that
19 sort of schedule with PJM, although with the interest of
20 OPSI and OMS we would expect to have to visit that kind of
21 schedule with state agencies, too, to ensure their questions
22 are on the table and we have sufficient time to ask and
23 answer those questions, as well.

24 So in the end, all we're asking of this
25 Commission is to give us the same kind of nudge you gave us
26

1 back when we began the Joint and Common Market. Hold us to
2 a schedule that we would negotiate with parties at the
3 table. Require us to send in our homework on a quarterly
4 basis to ensure they're making progress on these issues.

5 And then we would have confidence that the
6 questions that are on the table, the answers that might be
7 available, can be safely completed before that 2016
8 timeframe so that we will know going into that tight
9 capacity time what the rules are and we can provide our
10 consumers with as much flexibility as we can going into
11 those uncertain times.

12 With that, I look forward to your questions later
13 today.

14 MR. OTT: Good morning, and thank you for the
15 opportunity to discuss this issue before you today. If you
16 go to my first slide, I wanted to discuss the issues related
17 to capacity imports that PJM is experiencing in our forward
18 capacity markets. Could you bring up my slide, please?

19 There we go. Okay. Great. Thank you. What PJM
20 has experienced is, as we look over the forward capacity
21 auctions, as you know, our capacity auctions are run on a
22 three-year forward basis, and part of the requirements to
23 transfer capacity between regions, whether they be New York,
24 MISO, or the South coming into PJM, is to ensure
25 deliverability and to have letters of nonrecallability to
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1 ensure that we don't have capacity counted twice for
2 reliability.

3 What we found is that that is a reasonable
4 barrier to participation, meaning it is in fact a
5 requirement. It's a requirement of our internal generation,
6 and a requirement of external generation. They are
7 essentially the same requirement.

8 And the question has been posed: Does this
9 create a difficulty to having capacity transport between
10 regions? And what we see as the facts are that we really
11 have not seen barriers. In fact, just more recent capacity
12 auction in 2016-17, we actually saw a dramatic increase in
13 capacity imports especially from MISO. That came from
14 regions--more than about half of it came from regions in
15 central MISO, in the Illinois area, and some other states;
16 25 percent came from the Michigan part of MISO; and another
17 25 percent came from areas integrating into MISO of that
18 increase.

19 So what we see now is we have 4900 megawatts of
20 capacity transactions coming in from MISO for that period.
21 So if we look at the increase and the reasons for the
22 increase, I think the breakthrough was I think the MISO
23 capacity market now has stood up and actually produced a
24 result. People saw the price. Then they could rationalize
25 the economics of bidding into the PJM capacity market.

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1 In many of these incremental increases, the
2 integrating--the importing generator has agreed to upgrade
3 the transmission grid to support the transaction. So it
4 wasn't like transmission service was lying fallow and not
5 being used before; these increased imports are actually
6 using the mechanisms in the planning process to increase the
7 capability of the transmission system to reliably support
8 the transaction.

9 So basically from a factual point of view, it
10 does look like we have a very healthy and competitive
11 ability to transact a power today.

12 Now the question of the Joint and Common Market,
13 it has been fantastic to see the Joint and Common Market
14 process be revitalized. I thank the states, Chairman
15 Montgomery, Commissioner White, for supporting the increase
16 in priority on the JCM process. I think they have been
17 extremely helpful in not only getting stakeholders to be
18 engaged, but also in helping to set agendas and get the
19 process rolling. I think it actually is working well.

20 I think I see engagement from stakeholders on
21 both sides of the border. We see engagement from the
22 states. PJM is committed. Obviously it's much better to
23 have a highly coordinated scene and make incremental
24 improvements to that scene.

25 So we have made substantial progress. If you go
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1 to the next slide, we have a variety of mechanisms, of
2 initiatives I should say that are being worked on. Some of
3 those have already achieved some measure of success.

4 The key is that we have very high-value items
5 being discussed to many, many stakeholders and to of course
6 the ultimate consumer. Those include information
7 transparency, data exchange, transmission planning
8 coordination, energy market coordination, and finally we get
9 down and talk about the capacity market coordination.

10 There are many transmission outage scheduling and
11 coordination, generation outage scheduling and coordination,
12 all of those items are extremely high value. We actually
13 ask stakeholders to prioritize those items of highest value
14 to them, and that is the report you see in front of you.

15 We have made substantial progress on the high-
16 priority items. We actually have milestones, time lines, et
17 cetera, and we are moving forward. I think the key question
18 is, and the key difference I think of opinion between PJM
19 and MISO in this instance is: Can you take one of those
20 integrated items and put it on a separate track?

21 In other words, can you have a highly developed
22 plan to coordinate capacity market but not develop a plan to
23 have comparable coordination--increase in coordination in
24 the Day-Ahead energy market, for example, or in transmission
25 planning coordination?

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1 And what we see is that it is extremely
2 integrated. So just having the Joint and Common Market
3 congestion management coordination is not sufficient to move
4 forward and increase capacity coordination through a network
5 service type approach because obviously the scheduling of
6 generation in the Day-Ahead market, the scheduling of
7 generation in transmission adequacy analysis that we do a
8 week in advance, that is obviously vital to the deployment
9 of generation as capacity.

10 So you need much more sophisticated coordination
11 before we could go into getting highly developed
12 coordination within the capacity market. So that is really
13 the--I think the difference of opinion is in that
14 prioritization and integration, not in the desire. I think
15 both PJM and MISO have expressed a strong desire to increase
16 coordination at the border and see the value to that.

17 If we go to the next slide, I do want to
18 emphasize we have--I think the revitalized process has been
19 going now for at least a year. I think we have made
20 substantial progress. We have actually achieved, or
21 implemented improvements to Day-Ahead and Real-Time energy
22 market coordination from a data exchange point of view.

23 We haven't yet moved forward into having more
24 tight coordination in the Day-Ahead market yet because that
25 discussion has not yet occurred.

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1 We have done much more with data exchange. We
2 have created more transparency on flowgates that are
3 coordinated within PJM and MISO to show to stakeholders
4 what's going on.

5 System planning coordination has improved.

6 Obviously the Order 1000 and its interactions has
7 been discussed at least.

8 And then capacity deliverability. We have
9 actually made some improvements in capacity deliverability.
10 PJM had actually evaluated in discussion with stakeholders
11 how our capacity--how our analysis of external resources
12 compares to our analysis of internal resources from a
13 deliverability point of view.

14 And we made adaptations to make sure those were
15 directly equivalent--meaning, that both externals and
16 internals are treated the same from a deliverability
17 perspective.

18 Really, the JCM process and the prioritization of
19 that, I think the stakeholders have recognized that there is
20 a very deep interaction between the Real-Time market, the
21 Day-Ahead market, the resource adequacy construct, and the
22 planning process.

23 In addition to that, there are many high-priority
24 items that stakeholders want to have discussed. One of
25 those is of course the transmission outage coordination and
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1 how the differences between those can create cost shifts.

2 So I think we are making--have a heavily engaged
3 group. I think we are making substantial progress. And my
4 message to you all is: I think it would be very difficult
5 to keep that process going, and keep that process healthy if
6 one item of that group of items we're talking about is
7 suddenly put on a different track and brought here before
8 the Commission. That would create a disruption to our good
9 work that is going on now. We have momentum, and I think we
10 need to keep the integrated discussions going in the JCM
11 process itself.

12 I will spend a minute on the MISO proposal on the
13 network--cross-border network service. I think the key
14 point here is to do that type of change in assumption
15 between how generation is delivered between markets. If you
16 harken back to when MISO first formed, they had separate
17 control areas. They combined them into one dispatch, one
18 Day-Ahead market, one system operation basically. And then
19 they were able to achieve benefits.

20 What I suggest is to have a notion that you can
21 have highly developed deliverability through a networked
22 type approach without changing fundamentally how we do our
23 Day-Ahead market integration, how we integrate our
24 transmission adequacy studies in the short term, how we
25 integrate our transmission planning studies, you simply

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1 can't have a highly developed network deliverability without
2 doing these other very critical coordination steps. And
3 that is really the key difference.

4 If you went that way and you did do a highly
5 developed network service without the accompanying changes
6 in the other parts of the market, we have a cost shift. We
7 have issues where reliability type criteria violations would
8 not be detected by the network service analysis. And we
9 have some concerns with how the system would remain
10 reliable. And of course we would have to make those
11 adjustments.

12 So again, I think as we look forward I leave two
13 thoughts with you:

14 First is, when we assess the deliverability of
15 generation in PJM to access to forward capacity market,
16 external resources and internal resources are treated
17 identically. We've seen a significant ability for external
18 resources to compete in our capacity market. In fact, in
19 our recent capacity market we've had highly competitive
20 interaction between demand resources, imports, new
21 generation, and existing generation, all competing in the
22 market. The market was very competitive, and the results of
23 the last auction were quite competitive.

24 If you look at the issues of network
25 deliverability versus unit-specific deliverability studies,
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1 the key is we do unit-specific deliverability studies to
2 ensure that during those system stress events when we have
3 the highest load, the last thing our operators want to hear
4 is "I can't deliver a generator-2 load because of a
5 transmission problem."

6 So when we analyze our internal generation or our
7 external resources, we analyze those on a unit-specific
8 deliverability analysis; so the deliverability of those
9 units is not dependent on the generation outage pattern for
10 other generators. So you can't look at the generation
11 deliverability as a group; you have to look individually
12 because one generator may effect the deliverability status
13 of another if you didn't look individually.

14 So what we have done within both PJM's capacity
15 construct for the internal resource, or external, is to
16 ensure that we don't have isolated generation, what we
17 call "bottle generation" during the time when we need it
18 most. We do that analysis and order transmission upgrades
19 to make sure we stay out of that type of unreliable
20 operating state.

21 All we're simply saying here is, within--the
22 external resources have to have that same standard. They
23 have to be deliverable on an individual basis. They can't
24 be dependent on transmission flow patterns, because we have
25 to have it. We can't--we can't--we are depending on those
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1 resources to serve load during the highest peak load
2 conditions.

3 And with that, I thank you and look forward to
4 your questions.

5 INDIANA COMMISSIONER BENNETT: Good morning, Mr.
6 Chairman, Commissioners:

7 Along with Chairman Ben Lee, I want to thank you
8 for inviting the organizations of PJM States and MISO States
9 to address you today.

10 OPSI and OMS have embarked on a collaborative
11 effort regarding the MISO/PJM Joint and Common Market, as
12 well as exploration of the capacity deliverability issue.
13 This collaborative effort grew out of a mutual interest and
14 concern by several of the states along and adjacent to the
15 MISO/PJM seam about the state of affairs regarding the
16 process to address a host of these seams' issues.

17 We have come together to provide a common voice
18 regarding states' interest in establishing a joint,
19 transparent stakeholder process focused on rational
20 discussion and study to resolve issues and achieve defined
21 objectives along the seam for the benefit of stakeholders
22 and customers in both RTOs.

23 Our presentation today is going to be given by
24 two of our leaders on JCM issues: Chairman Phil Montgomery
25 of the Public Service Commission of Wisconsin, and
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1 Commissioner Greg White of the Michigan Public Service
2 Commission. We are also joined today by Tia Elliott of my
3 staff, and Chris Devin of the Michigan Commission, who are
4 here if there are any specific technical questions that come
5 up later on in the discussion.

6 Thank you. I will turn it over to Chairman
7 Montgomery now.

8 WISCONSIN CHAIRMAN MONTGOMERY: Thank you. Good
9 morning. Thank you for the invitation to address the issues
10 of capacity deliverability between MISO/PJM before the
11 Commission today.

12 Commissioner White and I are here on behalf of
13 OPSI and OMS and appreciate the opportunity to provide our
14 perspective on the most important aspects of the capacity
15 deliverability issue.

16 As Commissioner Bennett articulated, Commissioner
17 White and I really represent a team approach that is taking
18 place, from Commissioner Bennett, to Commissioner Finley,
19 the staff, Tia Elliott, Chris Devin, others, Phil Jones of
20 NARUC, Andre Porter was involved, it has very much been a
21 team effort.

22 And our work to date at JCM has focused on
23 installing a governance, accountability, and transparency,
24 all which we believe are in place moving forward. To be
25 clear, our message today is that we believe JCM is the forum
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1 to provide analysis, collaborative prioritization, and to
2 move a collaborative proposal not only on capacity
3 deliverability but the other 15 or so topics that we are
4 currently exploring and may explore in the future in a
5 timely manner.

6 A brief outline of our presentation is as
7 follows: We will discuss Joint and Common Market
8 initiative; review the docket and highlight the major issues
9 the Commission has identified in the proceedings; and then
10 we will identify an OPSI and OMS joint recommendation.

11 I want to take a moment and again highlight the
12 fact that, other than we have a Michigan State, a Wisconsin,
13 an Indiana, and a North Carolina guy working together,
14 having OPSI and OMS work together is a highlight.

15 (Laughter.)

16 WISCONSIN CHAIRMAN MONTGOMERY: The PJM
17 interconnection--the MISO, are two of the Nation's leading
18 regional transmission organizations. The Commission is
19 familiar with the arduous process that initially led to the
20 complicated PJM/MISO seam with the ongoing process to manage
21 that seam.

22 Defining the process to effectively manage this
23 seam has long been an issue. For over a decade, seams
24 issues have been addressed on a case-by-case basis by
25 PJM/MISO and the other stakeholders in a somewhat limited ad
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1 hoc process, often resulting in markets and policy outcomes
2 that some stakeholders find disappointing.

3 Within the last 18 months, and with much
4 stakeholder urging, PJM and MISO renewed their combined
5 efforts to confront the many challenges along their shared
6 seams by renewing the Joint and Common Market Initiative,
7 JCM.

8 State regulators, as well as all PJM and MISO
9 stakeholders, now have an opportunity to participate in a
10 more comprehensive and collaborative initiative. OPSI and
11 OMS have been active participants in this much-welcomed
12 process.

13 A flash point at JCM is who is the capacity
14 deliverability between the two regions? MISO identified its
15 concerns regarding efficient deliverability--delivery of
16 capacity between the two RTOs, and circulated a capacity
17 deliverability white paper in support.

18 Many JCM participants from both RTO stakeholder
19 groups, including PJM, did not agree with the conclusions of
20 the white paper. This disagreement evolved over time and
21 eventually became the FERC Docket No. AD12-16-000, which was
22 opened prior to the reinstatement of the JCM.

23 The Commission has identified the following
24 issues in this proceeding:

25 Identifying the progress of efforts to address
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1 whether existing market rules and operating protocols
2 concerning the transfer of capacity between MISO and PJM act
3 as barriers to the delivery of capacity between markets.

4 Two, identify any unaddressed barriers to the
5 transfer of capacity between the markets;

6 And three, identify the measures the Commission
7 may take to address those barriers that may result in unjust
8 and unreasonable rates.

9 In order to inform the Commission and
10 stakeholders on potential barriers and alternatives, OPSI
11 and OMS believe that additional fact finding within the JCM
12 process is necessary.

13 After an initial fact finding has been accurately
14 completed, it will finally be possible to determine if any
15 additional work within the JCM process would be necessary.

16 With that, Commissioner White.

17 MICHIGAN COMMISSIONER WHITE: Thank you, very
18 much. I would like to reiterate the appreciation that's
19 been voiced by my fellow Commissioners for the opportunity
20 to come down today and present on behalf of OPSI and OMS to
21 the Commission on these important issues.

22 I would also like to indicate that we are pleased
23 with the JCM process. I for one felt early on that we
24 needed to get this process back up and running. We have
25 done that. It is going very well at this time.

26

1 And so in the remarks that I will be making, I do
2 want to emphasize that we think it is really important that
3 we maintain this JCM process. The discussions, any types of
4 reviews or analysis should be conducted within the JCM
5 process, and it is important that we maintain the
6 prioritization that's been established within the JCM
7 process. We don't want to get into a situation where we
8 could have some unintended consequences by pulling certain
9 things out and putting them ahead of other issues that need
10 to be addressed. And we have a very thoughtful and
11 collaborative process in place, and so I think it is very
12 important that we try to maintain that to the extent we
13 possibly can.

14 This slide I think does warrant some
15 clarification. I think it is important to note that we are
16 not asking for a third party to step in and provide the
17 analysis, unless things stall. And so we want to maintain
18 the JCM process going forward. We think that any kind of a
19 review--and I'll talk a little bit about the fact finding
20 approach that we're encouraging--but however that's done,
21 whether it be jointly analyzed within the JCM process by
22 MISO and PJM, or if at some point in time it looks as though
23 the process is stalling and we need to call in a third
24 party, an independent party, to participate, we still want
25 to emphasize that that needs to stay within the JCM

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1 process.

2 The fact finding that we're calling for is really
3 intended to inform the Commission and all stakeholders and
4 participants on whether there is actually a need for a
5 further detailed analysis. In other words, the fact finding
6 as we're describing it here would in effect be a precursor
7 used to educate and inform the Commission on whether or not
8 there is the need for a more detailed analysis.

9 As noted in this slide, we have identified
10 several steps that we think such a fact finding should
11 include. The first two emphasize the methodology, the
12 agreed-upon methodology for determining transfer capability
13 between MISO and PJM in both directions, identifying a
14 methodology for determining the magnitude of capacity that
15 could reliably bid into PJM's capacity market and MISO's,
16 and again in both directions.

17 Reliability, as you know, is a critical component
18 of all of this. And so our third point is to have a fact
19 finding that identifies and studies the reliability impacts
20 of the feasibility of potential revisions to existing market
21 rules and operating protocols.

22 And then the fourth is, once again, to focus on
23 an agreed-upon methodology for determining a cost/benefit
24 analysis of implementing any necessary solutions.

25 Are there actual barriers? I think that is an
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1 open question. You know, we've seen some things with the
2 capacity auction, as Andy Ott pointed out, that raised the
3 question as to whether or not there are potential barriers.
4 But that is an open question. I think we feel it is
5 appropriate and reasonable to look into that question.

6 So certainly OPSI and OMS agree that potential
7 barriers may exist, and part of the value of having a fact
8 finding would be to examine those issues.

9 So questions for consideration:

10 Are there any of the asserted or potential
11 barriers to participation in the capacity markets?

12 Are they unjust or unreasonable? That's kind of
13 the key question.

14 May some of the barriers, if in fact they exist,
15 be characteristics of the unique--you know, the uniqueness
16 of the various RTOs, their rules, their market rules, how
17 they go forward. So it is important again that we look at
18 these from the perspective of reliability and the economics
19 for both of these markets.

20 Further questions for consideration:

21 Would the use of remaining transmission
22 capability between MISO and PJM for long-term capacity
23 transfers be discriminatory to other parties' ability to
24 otherwise utilize the remaining transmission capability?

25 Is there potential discrimination against
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1 internal RTO generation or external generators to MISO and
2 PJM that would also desire similar ability to provide
3 capacity to PJM or MISO?

4 So again, the fact finding, the concept of the
5 fact finding is to have some of these threshold questions
6 asked and addressed, and OPSI and OMS believe that the
7 initial fact finding must be utilized to evaluate and
8 analyze these critical issues.

9 Evaluation of some of the issues. Again these
10 are what we have identified as being important to making
11 these determinations going forward:

12 Determining the possibility and significance of
13 cost shifts between MISO and PJM. As state economic
14 regulators, you are well understanding our concerns there.

15 Consider the impact of any proposed or revised
16 deliverability scheme on reliability.

17 Consider whether further work on capacity
18 deliverability is cost effective.

19 Conclude, if there is an overall incremental
20 joint deliverability benefit over that currently occurring,
21 consider whether the revisions can be cost effectively and
22 realistically implemented.

23 And determine the long-term rate impacts on each
24 RTO's retail customers.

25 And with that, I am going to pass it back to my
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1 colleague.

2 WISCONSIN CHAIRMAN MONTGOMERY: So thank you
3 again. As Commissioner White articulated, accurate fact
4 finding within the JCM process that provides RTOs and all
5 stakeholders with the requisite information to take well-
6 informed positions is necessary to advance vital
7 coordination while still allowing RTOs to maintain their
8 unique characteristics. And we believe that JCM provides
9 that collaborative effort to come up with those fact
10 findings.

11 Without collaborative involvement, both RTOs--
12 with the involvement from both RTOs, the output of any fact
13 finding and subsequent analysis would likely be unreliable.
14 Prior to OMS and OPSI Joint Comments, it was February of
15 2013 that joint comments in this docket, that OMS and OPSI
16 described the role that state regulators proposed to serve
17 in the JCM process.

18 Since February, the productivity of the JCM
19 process has improved. OMS and OPSI expect the JCM process
20 to continue to be productive and to include progress on the
21 issue of capacity portability in this expectation.

22 State regulators do not want to actively direct
23 or moderate fact finding or the particular technical efforts
24 described herein. Instead, it is expected that state
25 regulators will continue to be active JCM participants and
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1 provide feedback, suggestions, and information for the
2 assessment of the capacity deliverability issue and on the
3 most effective implementation of any necessary solution to
4 issues identified as it is expected of all participants in
5 JCM.

6 All JCM participants should be confident that a
7 proper identification of facts surrounding these issues will
8 allow the JCM stakeholders to determine the need,
9 appropriateness, and timing of the implementation of any
10 proposed capacity deliverability solutions that might need
11 to be developed.

12 On behalf of OPSI and OMS, we appreciate this
13 opportunity to discuss these issues with the Commission and
14 we look forward to working with PJM and MISO in a
15 cooperative examination of capacity deliverability.

16 Thank you.

17 CHAIRMAN WELLINGHOFF: Good morning.

18 DR. PATTON: Good morning. My name is David
19 Patton.

20 I appreciate the opportunity to talk on this
21 issue. I am going to be covering--due to time, I will be
22 covering things at a relatively high level and try to
23 provide some context around the recommendations that we have
24 been making on this issue.

25 So I think what is important to recognize, I
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1 actually liked Mr. Ott's chain that showed the chain
2 exploding between the planning and--system planning and
3 operations. It is important to recognize that these things
4 are two sides of the same coin.

5 You have an operating horizon on one side, and
6 there you are talking about your Day-Ahead market and your
7 Real-Time market and how power actually gets scheduled
8 between the two areas. And then you have a planning horizon
9 and, you know, really there's the capacity market exists to
10 satisfy your planning needs.

11 You could potentially operate a market without a
12 capacity market. The problem with that is, there would be
13 no guarantee you would meet your planning horizon targets or
14 requirements. So the capacity market helps ensure that
15 you're going to meet those planning horizon targets.

16 But what really happens in the Real-Time is that
17 you're relying on your energy market, your ancillary service
18 markets to ensure that you meet the load reliably. And the
19 capacity market makes sure that in both areas the total
20 capacity that's installed is sufficient to meet those
21 requirements.

22 Now when you think about how these issues fit
23 together, and this goes to I think some of the ways in which
24 we talk past each other on some of these issues, is what
25 really happens in Real-Time? Do we deliver megawatts from
26

1 specific resources to the neighboring control area? Well,
2 the answer is: No, we don't.

3 When power is being transferred from MISO to PJM,
4 what happens is they both agree that the total load being
5 served in PJM is going to be turned down 50 megawatts, and
6 MISO is going to be turned up 50 megawatts, and that
7 effectuates a transfer between MISO and PJM of 50 megawatts.

8 There is no designation of what resource that is
9 coming from. It is simply coming from the overall MISO
10 dispatch. And if a particular resource that you happen to
11 be concerned about may affect a constraint, what MISO is
12 going to do is dispatch around the constraint using their
13 nodal dispatch.

14 And it is for that reason that, you know, you
15 look at the reality of what is happening and you say: Well,
16 if we need in a capacity context to ensure that megawatts
17 can be delivered from the neighboring control area, then we
18 need to think about how those megawatts get delivered; how
19 the neighboring RTO can ensure that those megawatts will be
20 delivered if they need to be delivered on a firm basis; and
21 then structure our capacity deliverability analyses and our
22 capacity obligations around how in the operating timeframe
23 that's actually going to happen.

24 And it is for that reason that I think when we
25 start talking about unit-specific deliverability analyses
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1 and the extent to which that has contributed to the barrier
2 to selling capacity, and things like the capacity
3 obligations we place on external resources, consistency for
4 consistency sake is not a virtue.

5 We generally are opposed to discrimination, but
6 due discrimination is actually good. And the reason due
7 discrimination is important in this context is that when you
8 are delivering megawatts from an internal resource in an RTO
9 that may be a capacity resource, you are actually sending
10 them a dispatch instruction and you need that power to get
11 from that resource to the load in the market.

12 However, when you're getting power from a
13 neighboring RTO, the neighboring RTO through its dispatch is
14 delivering those megawatts. And therefore that should be
15 recognized in how you evaluate deliverability and how you
16 establish the transmission requirements between the areas.

17 Now I say these are two sides of the same coin.
18 Probably the biggest economic problem between PJM and MISO
19 is what happens in the operating time horizon; that the way
20 we schedule the interface, incredibly powerful from a
21 reliability and economic perspective, but the way we
22 schedule it leads to large inefficiencies, and it leads to
23 reliability problems.

24 The poor scheduling of that interface as the
25 largest single cause for most of the shortages that MISO
26

1 experienced this last summer. And it is not just an
2 economic issue. The fact that prices were \$2,400 in MISO
3 certainly raises costs to consumers. It actually raises
4 costs to consumers in both areas and raises uplift costs.
5 But it also affects reliability because if you're not
6 scheduling that interface efficiently and you therefore go
7 short of operating reserves, you then are in a position
8 where you can't respond to your largest contingency.

9 And so since 2005 we've been suggesting that the
10 interchange process, and scheduling process be modified to
11 optimize the interchange. We have--since 2003, we have
12 proposed that between New England and New York. And in
13 neither area has that come to pass.

14 And so why hasn't that come to pass? And this
15 is--capacity deliverability is the planning horizon
16 reflection of that same seam issue. I believe one reason
17 that hasn't come to pass is that there are a lot of
18 stakeholders that actually benefit from inefficiency on the
19 seam, and therefore if you rely on stakeholder
20 prioritization you do end up with some priorities that
21 aren't going to be consistent with economic efficiency in
22 resolving the issues.

23 And that is where I think FERC really can play a
24 critical role. In the Lake Erie Loop Flow process, you
25 required that MISO--or PJM and New York put in place some
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1 improvements to how power is scheduled, how power is priced
2 at the seams, coordinating the congestion management
3 process. It's actually a more complicated problem than this
4 problem or the interface scheduling problem, but PJM and New
5 York were able to put that in place in part because they had
6 a deadline from FERC to do it.

7 And I think, you know, when you have two sets of
8 stakeholders, all of whom have economic interests, and you
9 have a fairly complicated process, having a deadline from
10 FERC is enormously powerful. And, you know, given the time
11 frames that we've watched the inefficiencies mount in both
12 the operating horizon and the planning horizon on these
13 issues, I think it's--you know, that's why I think we've
14 ended with the recommendation that FERC not dictate a
15 solution, but dictate a time frame in which these are going
16 to be resolved.

17 By the way, I will mention, because you have it
18 in your package, that interchange optimization to solve the
19 operating horizon problem is number 11 out of 15 on the
20 stakeholder prioritization list.

21 So there's, you know, I think in both areas I
22 think FERC should take a hard look at what role they can
23 play in helping facilitate this process, not disband the
24 process but ensure that we get to an efficient outcome.

25 Thank you.

26

1 DR. BOWRING: Good morning, assuming it's still
2 morning.

3 (Laughter.)

4 DR. BOWRING: Thanks for the opportunity to be
5 here. My watch is on time--PJM has a robust capacity
6 market. The definition of "capacity" in the PJM capacity
7 market is critical to its operation.

8 Capacity--and you will note some subtle points of
9 disagreement here--capacity is physical, and it is linked to
10 specific units with explicit performance criteria to which
11 they are held.

12 Capacity is not liquidated damages contracts, and
13 it is not slice-of-system. Capacity must be deliverable in
14 PJM to PJM load, and in MISO to MISO load. Capacity must
15 offer in PJM into the Day-Ahead energy market every day, and
16 energy from capacity resources in particular units is
17 recallable in an emergency, and it is linked to very
18 specific units.

19 The capacity market has a must-offer obligation
20 for all capacity resources in PJM, and has a must-buy
21 obligation for all load in PJM. Capacity in the energy
22 markets are tightly integrated by design. As Andy pointed
23 out, they can't operate separately. The design of them
24 works hand in hand.

25 So these are, in brief summary, the core elements
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1 of the capacity market that have been characterized by some
2 as barriers to entry, but they are in fact key attributes of
3 the market and core to the way it works.

4 So the--I actually do have slides here somewhere.
5 Who do I go to for slides? Anyway, I'm sure you have those
6 slides in front of you. Great. Well I can talk from the
7 slides. Whatever.

8 Anyway, so I have some numbers up there. And
9 really the point is that the assertion that they are
10 inefficient barriers to entry into the PJM capacity market,
11 particularly from MISO, I think were called into question by
12 the results of the recent '16-'17 base residual capacity
13 auction in which the level of capacity imports from MISO
14 increased by 3,000 megawatts and more than 200 percent. And
15 particularly in light of the fact that MISO itself is
16 indicating that it probably is going to be a little bit
17 tight on capacity in '16-'17. It is not clear exactly what
18 effect any even alleged barriers to entry could have had
19 there.

20 Imports also have a significant impact on price.
21 I won't walk you through the details, but--I've been accused
22 of having slides that are too hard to read from distances.
23 This probably continues to meet my criterion.

24 (Laughter.)

25 DR. BOWRING: But suffice it to say that the
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1 actual import levels--and we just did a series of
2 sensitivities--the actual import levels from MISO and
3 elsewhere have very significant impacts on PJM. The market
4 was competitive and it contributed to that.

5 But actually the significant levels of imports
6 and the significant increase in imports in PJM has raised
7 issues within PJM in the PJM membership process that need to
8 be discussed about the extent to which imports are truly
9 substitutable for internal resources.

10 Are they a perfect substitute? And to what
11 extent can PJM and its load rely on import capacity as
12 compared to internal capacity? Can those resources, for
13 example, compete in the PJM capacity market and participate
14 in that market in a way comparable to internal units?

15 Can those resources provide the same kind of
16 physical reliability to PJM load that internal units do?

17 The seam between PJM and MISO certainly does
18 create some issues related to capacity. PJM has a capacity
19 market which I believe is both competitive and which
20 reflects the economic fundamentals of supply and demand in
21 the PJM footprint.

22 MISO does not have such a capacity market, at
23 least not yet. MISO relies primarily on cost-of-service
24 regulation to cover the net revenue requirements that are
25 covered by the capacity market of PJM. And that's a

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1 fundamental difference. Neither one is right or wrong; but
2 it is a fundamental difference.

3 As a result, the MISO capacity market does not
4 monetize the value of merchant and nonregulated capacity,
5 and I think that is part of it and as has been explicitly
6 stated that is part of the reason incentives to enter into
7 the PJM capacity market have arisen.

8 In fact, given those incentives, MISO could face
9 incentives--MISO capacity could face incentives to export to
10 PJM even when MISO is extraordinarily tight, given that
11 difference in pricing.

12 So one part of the global review that's been
13 talked about should certainly include the capacity market
14 designs. The way to address the incentive issue in my view
15 is not to--not to weaken the PJM capacity market design, but
16 to make sure it remains robust and that nothing then gets
17 done that undercuts that design.

18 It is important to continue to address, as has
19 been pointed out by a number of my fellow speakers here, to
20 address the MISO and PJM seams issues in order to improve
21 the efficiency of both markets.

22 And David has pointed out repeatedly and for a
23 number of years that the efficiency of the energy exchange
24 at the seams needs to be improved. I absolutely agree with
25 him, and I think that is a key area that MISO and PJM can
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1 agree on and can make progress on.

2 I support, along with everyone else here, the JCM
3 continued active analysis of the issues of all stakeholders
4 and the development of facts. Factual issues remain, and as
5 OMS and OPSI have said, here and elsewhere the purpose of
6 the JCM is to ensure that all the relevant facts are known
7 before any significant changes are made.

8 So the improved energy scheduling, again just to
9 emphasize that, a point that David has made repeatedly, is
10 an area that could lead in the very near term to substantial
11 improved efficiency at the seam.

12 I think the question of capacity markets is a
13 very different one. But I believe that the JCM process will
14 hopefully get us to both a discovery of the facts,
15 underlying issues, and hopefully a proposed joint solution.

16 Thank you.

17 CHAIRMAN WELLINGHOFF: Thank you, everybody. I
18 appreciate very much the presentations that you have given
19 and the effort that you've put into this. It is really a
20 very important issue for us all.

21 I have got a couple of questions, and then I will
22 turn it over to my colleagues for their questions.

23 First starting with you, Chairman Montgomery. I
24 think I heard your message very clear that you are
25 indicating to us that the JCM you believe is the best forum
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1 to move forward with a collaborative multi-issue proposal.

2 Is that correct?

3 WISCONSIN CHAIRMAN MONTGOMERY: Very much so.

4 And I think that one of the things to note is the fact that,
5 while JCM came back together in July of '12, the focus has
6 been on getting the governance, the collaboration, the
7 accountability, and transparency right. And so that is
8 where we are at today to move forward.

9 CHAIRMAN WELLINGHOFF: And I don't think I'm
10 hearing any disagreement on that in the panel, other than
11 I'm hearing Mr. Patton say that's fine but let's just set a
12 date here that we get some concrete things from that
13 process. And I understand that the process is moving along,
14 and I appreciate that.

15 And so the timeframes that we have talked about,
16 I think Mr. Ott talked about in his testimony, working
17 through this in '14 and getting something out then to put
18 something in place by '15. Does that make sense to you?

19 WISCONSIN CHAIRMAN MONTGOMERY: Well I think that
20 whether it makes sense to me, more importantly does it make
21 sense collaboratively to the stakeholders.

22 CHAIRMAN WELLINGHOFF: Right.

23 WISCONSIN CHAIRMAN MONTGOMERY: And that is what
24 we have in place, I believe, and Commissioner White and
25 Commissioner Bennett believe, is we now have that in place.

26

1 Do we need to continue to revisit prioritization?
2 Can we multi-task? Can we have something that staff is
3 exploring in addition to the face-to-face meetings? Is
4 there opportunity for ad hoc to facilitate? But I think the
5 point that I would take away is, yes, we believe that the
6 process is in place, and the transparency, so that you or
7 any stakeholder can see where we are at on any issue, and
8 determine for themselves whether or not it is being slow-
9 walked, whether or not it is not adequately being addressed.

10 So, Commissioner White?

11 MICHIGAN COMMISSIONER WHITE: I would just add,
12 you know, again part of our message is that this process is
13 in place and the process appears to be working. I certainly
14 would support reporting. I think I would stop short of
15 calling for deadlines at this point.

16 I think that we should watch this process work.
17 And if you're getting adequate reporting, then you are
18 informed as to whether or not we are looking at potential
19 problems in a couple of years or, you know, whatever the
20 appropriate timeframes are. We all know when it looks like
21 there could be potential issues with our reliability on our
22 system.

23 So that would be my recommendation: We all need
24 to pay attention. Reporting can inform, but I would
25 probably stop short of establishing firm deadlines.

26

1 CHAIRMAN WELLINGHOFF: Commissioner Bennett, did
2 you have a comment on that?

3 INDIANA COMMISSIONER BENNETT: I think they
4 covered that very well.

5 CHAIRMAN WELLINGHOFF: Thank you.

6 And on the prioritization, I just had a question
7 or two on that. I guess it was your slide 4, Andy. First
8 of all, the issues that were put in the survey. Who
9 developed those issues? Were there options to add issues by
10 the survey participants? Or how was this structured?

11 MR. OTT: Yes. I think the initial issues list
12 was developed basically collaboratively with stakeholders.
13 Obviously PJM and MISO had a list we started with. We
14 discussed it with stakeholders, said what was important to
15 stakeholders by having discussion at the meetings. And then
16 to actually assemble the questionnaire to get to
17 prioritization, PJM and MISO worked together to put that
18 out.

19 So, effectively, as Chairman Montgomery
20 indicated, there was a basic collaborative process to say,
21 okay, what's the scope of discussion? And I think it was
22 key to make sure that the stakeholders were involved in
23 setting that. So it was a pretty broad input set.

24 CHAIRMAN WELLINGHOFF: And how many people
25 participated--how many stakeholders participated in the
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1 survey?

2 MR. OTT: I think between 130 and 150.

3 CHAIRMAN WELLINGHOFF: Okay. Could we see the
4 distribution of the scores? I mean, if you could provide
5 that to us I would be interested, because obviously--I mean,
6 you could skew the thing if there was a group that all
7 wanted to vote one on something, and five on something else,
8 ultimately. I would just be interested in seeing that.

9 MR. OTT: Yes, Mr. Chairman, we have the complete
10 list. I can certainly get that to you all.

11 CHAIRMAN WELLINGHOFF: Great. I appreciate it.

12 All right, I think that's all I have. Phil?

13 COMMISSIONER MOELLER: Thank you for the
14 presentations. I think it was about five or six years ago
15 that we unfortunately kind of de-emphasized the discussions
16 between the two markets. Maybe it was appropriate at the
17 time, given all the work that had been done, but it is
18 overdue that these discussions started again.

19 So I have high commendation for the people here,
20 and who aren't here, who made that happen. It is really
21 good work, and we have to obviously support you in keeping
22 those conversations going.

23 I have a couple of other points, but I thought
24 because I have enormous respect for both Mr. Ott and
25 Mr. Moeller--and as far as we know we're not related--

26

1 (Laughter.)

2 COMMISSIONER MOELLER: I would like to give you
3 each kind of a chance, and maybe with Dr. Patton and
4 Dr. Bowring, too, to perhaps rebut each other's point.

5 Clair, could you start?

6 MR. CLAIR MOELLER: Thank you.

7 First, if I left the impression that we are
8 interested in looking at this kind of network product in a
9 different process, or not including the context of the other
10 priorities of the Joint and Common Market, I apologize.

11 My point instead is, if the goal of the Joint and
12 Common Market is to move to this type of deliverability, the
13 answers to the questions of the other 15 priorities may well
14 be different in order to facilitate that kind of markets-
15 without-borders philosophy.

16 So apparently I misspoke in terms of trying to
17 add this to the priority list and not replace the priority
18 list with something like this network service.

19 COMMISSIONER MOELLER: Andy.

20 MR. OTT: I think the key is that if there--
21 there's a fundamental interrelationship between energy
22 market and capacity market. We don't run the capacity
23 market because it's just planning and we forget what happens
24 in planning and go into operations. They are actually, as
25 Dr. Bowring indicated, very tightly tied together.

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1 So it is not--for us, the way we schedule and
2 dispatch the system, the way we do on a week-forward basis
3 our transmission adequacy analysis and our generation
4 adequacy analysis, is very tightly integrated with what
5 happened in capacity. And the transmission planning process
6 is also of course change--every time we clear a capacity
7 auction, there's a new planning analysis, because the
8 planning process has to actually recognize that.

9 So the concept that unit-specific deliverability
10 doesn't tie back to the Day-Ahead market just simply does
11 not comport with how we actually schedule and operate the
12 grid. So to the extent that Mr. Moeller is talking about
13 having the network deliverability be able to be accomplished
14 without sort of fundamental changes to the way we do the
15 Day-Ahead market, I would disagree. But it sounds like that
16 may not be what he's saying, and it may in fact be that he's
17 saying we have to talk about it altogether.

18 And if that's the case, then it's just a matter
19 of what's the cost/benefit. Can we put a common Day-Ahead
20 market together across the borders with a--and make that--
21 you know, do that in a cost-effective manner? Meaning, how
22 hard is it going to be to do that and still maintain
23 separate, pseudo-separate markets? Because obviously the
24 easiest thing to do is just put them altogether and that is
25 very direct.

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1 But I think the key is, the stakeholders are very
2 actively discussing this. They are very interested in
3 getting stuff done. I think we have that momentum.
4 Anything you all do here to have stuff reported down here,
5 or are called down here for--can only disrupt that
6 process. You have staff that can monitor the process.
7 Let's stay with that. I think you'll get better results, is
8 my point.

9 COMMISSIONER MOELLER: Chairman?

10 WISCONSIN CHAIRMAN MONTGOMERY: I thought the
11 Chair's comments were very insightful, or your questions, on
12 the prioritization survey. Again, as with anything, I'm
13 sure if we did a prioritization of football teams again the
14 Greenbay Packers would always come out number one.

15 (Laughter.)

16 WISCONSIN CHAIRMAN MONTGOMERY: Sorry. Having
17 said that, sometimes we do go back and have to re-examine
18 how the questions were asked, the distribution of the
19 stakeholders. So that was very insightful, and something
20 that is taking place within JCM.

21 COMMISSIONER MOELLER: Dr. Patton, Dr. Bowring,
22 any thoughts about your individual comments?

23 DR. PATTON: Sure. I guess I would reiterate the
24 notion that these two RTOs can deliver tremendous economic
25 value and tremendous reliability value if they coordinate in
26

1 both timeframes. And I think the--you know, just the one
2 most significant disagreement probably is with regard to
3 obligations on capacity resources and how you deliver
4 capacity resources. Because I think if you were to just
5 look at what happened last summer, although MISO is a
6 capacity exporter to PJM, MISO is generally an energy
7 importer.

8 And what happened on some of these peak days is
9 the interchange between the two areas was swinging around as
10 much as 3 gigawatts and just causing havoc because you have
11 to schedule 30 minutes ahead. So you get a price spike in
12 MISO, and everyone would say, oh, my gosh, you get 3,000
13 megawatts flowing out the door, or in the door to MISO, and
14 prices would crash.

15 You see very little consistency between if you
16 were to look on a peak day and what the energy transactions
17 are doing versus what the capacity transactions were. And
18 so that's why I say, you know, it's important to really mesh
19 up how megawatts get delivered and how MISO is going to
20 ensure on a firm basis that megawatts get delivered.

21 Because if the capacity resource really does
22 impact a constraint, that doesn't matter. MISO is not going
23 to say you don't get your megawatts because this resource is
24 hitting a constraint; they are going to dispatch right
25 around it.

26

1 So that sort of recognition is important on a
2 substantive basis. I think from a process perspective, we
3 certainly monitored and participated in the JCM process, and
4 I would say it's fair to say I'm maybe the last optimistic
5 of the panelists. Just listening to the discussion on the
6 items that are at the bottom of the priority list, there
7 really is not--I would be very surprised if a year from now
8 there was a plan on how to address the issues and move
9 forward.

10 Because I think the focus--the reason we did the
11 prioritization is that's where the focus is going to be,
12 because you can't do all these things simultaneously. So
13 that's why I think a deadline is appropriate, even if the
14 deadline is 18 months out. You know, it's still an
15 important message from the Commission that we expect
16 results, and we'll give you plenty of time to get there, but
17 not infinite time.

18 DR. BOWRING: So it's been my experience in
19 imposing deadlines on the stakeholder process is sort of
20 trying to take over the process. I don't think you can make
21 it work any faster than it's going to work. We all know
22 from painful experience it takes a long time, and there are
23 lots of disagreements. But I don't agree with David that
24 putting a deadline is going to make it more effective.

25 Interestingly, David's comments about energy
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1 redispatch are consistent with the priorities as specified
2 in the underlying--in the questionnaire, which is that
3 primary is the energy redispatch. And energy redispatch--
4 and that's what we were talking about last summer in July--
5 could certainly be made much more efficient. And that is
6 something that could be done without changing the capacity
7 markets, without having to address the fact that capacity
8 markets are very different, and there are very different
9 incentives within them.

10 And just a comment on what Mr. Moeller said,
11 markets-without-borders, I like the concept. But I think
12 where that ultimately goes--and we're probably a ways away
13 from that. First we take the step toward better energy
14 seams' management is ultimately what that really means,
15 consistent with what happened in MISO, would be a single RTO
16 across both of them.

17 I mean, that's really what's being talked about,
18 is a single market. So again, I'm not recommending that at
19 the moment, but that's what the ultimate market-without-seam
20 is. It's the only way really to make the capacity markets
21 and energy markets work together.

22 But there are plenty of things to be done before
23 that. I think the JCM will get there. Thanks.

24 COMMISSIONER MOELLER: Well thank you. I
25 appreciate the discussion and the dialogue.

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1 Two points. The first is that I certainly
2 understand the economic interests on each side, and they can
3 therefore affect the priorities. But to the extent this
4 becomes a reliability issue, it is something that we
5 absolutely cannot ignore.

6 And the second point, on deadlines.
7 Understanding the concerns of Commissioner White and Dr.
8 Bowring, I just go back to my experience in the Pacific
9 Northwest where it is so collaborative that sometimes they
10 let the perfect be the enemy of the good, and they don't
11 recognize problems that are obvious because they are too
12 collaborative.

13 And I would just hope that that discipline of a
14 deadline is at least in your mind so that we get some
15 action.

16 Thank you, Mr. Chairman.

17 CHAIRMAN WELLINGHOFF: Thank you, Phil. John.

18 COMMISSIONER NORRIS: Thanks. Chairman
19 Montgomery, I would first just note that Chairman
20 Wellinghoff is a mathematician, so it is no surprise that he
21 figured that survey skewing out.

22 (Laughter.)

23 COMMISSIONER NORRIS: But I would say, Andy, I
24 would appreciate seeing the results. I don't know if it was
25 done confidentially, but at least broken out by stakeholder
26

1 group I think is what we're really looking at.

2 PJM has stated that the internal and external
3 generators are treated identically, but MISO states the
4 generators internal to PJM can utilize network service to
5 confirm deliverability but PJM requires external generators
6 to utilize point-to-point transmission service.

7 Who's right? Who's wrong? Or is that equal
8 treatment? Anybody?

9 MR. OTT: Well I can start--explain why I say
10 they're the same. I think for an internal generator in PJM,
11 it can utilize network service of course to get to the load
12 but there's a test. There's a unit-specific deliverability
13 test that says can that generator get from its local area
14 out onto the grid?

15 So we do that test. If it can't, it has to
16 upgrade the system. When we do an external resource, the
17 test says can that generator get from wherever it is in the
18 external region to the PJM border, and then it can use
19 network service to go on in.

20 So the point-to-point analysis that gets done on
21 the unit-specific deliverability internally is from the
22 generator to the grid, meaning getting it out of its local
23 area so it's not bottled.

24 The same analysis gets done, you know, externally
25 to get from wherever it is to PJM, and we require that same

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1 set of deliverability. They are equivalent. And the
2 generator would have to pay for an upgrade in PJM if it
3 can't get from its local area to the grid. And obviously if
4 a generator needs to get transmission service out, it may
5 have to pay for an upgrade. So I see them as equivalent.

6 Now there is a difference between, you know, the
7 designation--meaning, one has point-to-point service; the
8 other has to be deliverable on a unit-specific basis. But
9 from an analytical perspective, they're exactly the same.

10 COMMISSIONER NORRIS: Anyone else have comments?

11 MR. CLAIR MOELLER: We do the same fiction when
12 we evaluate external units to MISO, because the tools and
13 the pro forma OATT require us to use this incremental
14 feasibility for external resources and network feasibility
15 for internal resources.

16 They are both safe. They are both reliable. We
17 think that there is more deliverability available if we were
18 to use the network-type test for all resources and not have
19 the two-part test, point-to-point plus network for external
20 resources; and only the network, and then the individual
21 deliverability for internal resources.

22 So we don't see them as equivalent, although we
23 see them both as safe protocols to maintain reliability.

24 COMMISSIONER NORRIS: Has OMS and OPSI looked at
25 this issue? Or do you have any thoughts?

26

1 MICHIGAN COMMISSIONER WHITE: I guess if I could,
2 Commissioner, this is part of our concept of the fact
3 finding. From our perspective, some of these are open
4 questions. It's not always transparent, as I mentioned, how
5 much capacity is currently being utilized in the different
6 directions; what those potentials are. And so that's I
7 think part of our rationale for suggesting that this fact
8 finding would help inform where we need to go and how
9 exactly that would work.

10 So there are some open questions, from our
11 perspective.

12 COMMISSIONER NORRIS: You did say, at least in
13 your comments, you're looking at a consultant to help sort
14 through this. Do you know what would be the signal for when
15 that might be necessary?

16 MICHIGAN COMMISSIONER WHITE: Well, you know,
17 again because we are pleased with the fact that the parties
18 have come together, and having participated in the JCM
19 discussions and sat in on the meetings, I've tried to be an
20 observer more than an active participant because this is an
21 opportunity to learn from a Commissioner's perspective. But
22 we think that the progress has been very, very good.

23 And so we would like to give the two RTOs the
24 opportunity to do that kind of fact finding, with the input
25 of the stakeholders. And then, you know, at some point in
26

1 time if it looks like we're not making any progress again, I
2 don't have the crystal ball to say what exactly that
3 milestone would be, but I think we would know pretty quickly
4 whether or not this is something that is not going to help
5 inform.

6 And if that point is reached, I think you will
7 hear several of us who will say I think it's time for an
8 independent third party to administer this type of a review.
9 But again, I want to emphasize that we'd like that to stay
10 within the JCM. So the independent review would be within
11 that process; it would just be administered from an
12 independent third party.

13 COMMISSIONER NORRIS: Okay. So would they go at
14 some point to a consultant to help assess this? I mean,
15 would you characterize more now your look at this as is
16 there an issue there? Or there's an issue there, and how do
17 we resolve it?

18 MICHIGAN COMMISSIONER WHITE: I'm still in the
19 "is there an issue there?" You know, we can argue both
20 ways, and you're hearing it here, you know, that there's
21 different perspectives on that. But I think from where
22 we're sitting, you know, that's why we tried to identify
23 what we think are some very threshold issues as part of that
24 fact finding. That will inform whether or not there is in
25 fact an issue there.

26

1 And if it is determined through the fact finding
2 that there is, then we think that there should be a more
3 concise, more granular study done.

4 COMMISSIONER NORRIS: And does that change your
5 opinion on a timetable? If it's determined through that "is
6 there an issue there" that there is, and then how do we
7 resolve it, does that change your opinion on a timetable?

8 MICHIGAN COMMISSIONER WHITE: Well, and as I
9 responded to Chairman Wellinghoff and to the point that
10 Commissioner Moeller made, you know, we know pretty well I
11 think when there is going to be potential reliability
12 issues, and reliability is key here. And so certainly I
13 think if we get to that point we would probably be more open
14 to establishing a deadline for when a study should be done.
15 But again, we want to stop short of calling for that because
16 we think the fact finding will inform whether or not there
17 even needs to be that kind of granular analysis beyond what
18 we are currently doing--if that's helpful.

19 COMMISSIONER NORRIS: Anyone else on that?

20 (No response.)

21 COMMISSIONER NORRIS: I'll go off script here in
22 thinking of some questions--let me just go forward with
23 this. I noted that, I don't want to qualify this--or not
24 "qualify" it, but I don't want to characterize you as
25 negative or positive, but I would say that MISO is more on
26

1 the offensive here. There's an issue that needs to be
2 resolved. PJM is more defensive: no, let's look at this
3 for awhile.

4 So I also note that MISO sent Mr. Moeller as
5 their Vice President of Transmission and Technology to speak
6 to us today, and Mr. Ott sent their Vice President of
7 Marketing to speak to us today. Now I know it could be just
8 because you're great representation for your respective
9 entities and your charming personalities, as I think Phil
10 pointed out, but is there a distinction there?

11 I mean, is this rooted, first of all, in a
12 transmission operations reliability focus? Or is this a
13 market problem? Or where do those two converge?

14 MR. OTT: Actually, I think this area is both
15 transmission--effectively, the RPM is a physical market.
16 And the way PJM markets work--and by the way, Mike Cormos
17 and I are, to an extent, interchangeable. So--

18 (Laughter.)

19 MR. OTT: We both have worked in operations, and
20 he knows a lot about markets, too. But the point is--and I
21 was a transmission planner for 14 years; I will plead
22 guilty. But the key is that the RPM isn't like--it's not
23 like our Day-Ahead energy market where there's a lot of
24 financial participation, virtual bidding, things like that.

25 The RPM is a physical market. We are actually
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1 seeking to acquire commitment of assets to be essentially
2 reliable capacity resources in PJM. And obviously that's
3 very tightly tied to resource adequacy. It's very tightly
4 tied to transmission planning, and very tightly tied to how
5 we actually do transmission operations.

6 So they are inextricably linked. I think the key
7 point on this is what capacity is defined as is a call on
8 energy during times of system shortage. So the point is, I
9 want that energy from that unit when I'm short.

10 I don't want any--you know, I don't want just to
11 be comforted that I'm going to get some kind of dispatch of
12 energy. Because when we had the protocols with New York,
13 when we cut transactions we're sending to New York, there
14 are specific transactions that are tagged as capacity-
15 backed. We won't cut those because they need to keep going
16 to New York because they're capacity in New York.

17 What I can't have is a system operator going
18 through their list of transactions to say which ones do I
19 cut and which ones don't I cut when I send the order to cut
20 on a hot summer day. You have to have that all predefined.
21 It all has to be unit-specific and physical or you can't
22 operate.

23 And so I would just tell you, because the markets
24 in PJM are so tightly tied to operations--it so happens I'm
25 the guy who did capacity. But don't take it as an
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1 indication that it's all just about markets.

2 MR. CLAIR MOELLER: So "less filling."

3 (Laughter.)

4 MR. CLAIR MOELLER: My first assignment as an
5 engineer in 1980 was to design the way to connect a
6 redeveloped hydro plant for North American Hydro as a result
7 of the Public Utility Regulatory Policy Act of 1978.

8 My whole career has been about trying to ensure
9 that transmission is not an inappropriate impediment to
10 competitive markets for generation. We see this
11 fundamentally as an Order 889 kind of transmission problem
12 that we seek to resolve to ensure there isn't any unused
13 capacity. We maximize utilization of existing transmission
14 resources. We acknowledge that there are important market
15 rule problems because the two markets have different sets of
16 rules.

17 But we don't think that transmission as an
18 impediment to trade between the two regions is an
19 appropriate proxy for rationalizing those market rules. So
20 we would prefer transmission not be an impediment to trade
21 to the degree we can make it that way. We would prefer the
22 transmission assets are fully utilized on behalf of
23 consumers; and then we would expect that the market rule
24 rationalization takes place over time, as it should.

25 So I think it is a matter of which end of the
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1 question we start at as we seek solutions to these important
2 issues.

3 COMMISSIONER NORRIS: Chairman Montgomery.

4 WISCONSIN CHAIRMAN MONTGOMERY: Just to talk once
5 more about the process, one of the things that we identified
6 early on was that when a question such as that was asked,
7 you would have the various stakeholders--the markets, the
8 transmissions, the environmental, the state--all chiming in
9 and talking past each other from their perspective.

10 One of the things that we have done in setting
11 the JCM agenda is to better define in what aspect are we
12 discussing this? Are we discussing the market aspects? Are
13 we discussing the transmission? Whatever it is, we've
14 further defined that to where the discussion is much more
15 focused.

16 COMMISSIONER NORRIS: Mr. Patton?

17 DR. PATTON: Could I tread slightly off the
18 beaten path in response? I think it really is important to
19 look at these seams issues between RTOs, because I think you
20 are hearing some differences between some of us where there
21 are nuances that I want to try to emphasize.

22 The capacity market ensures that we have enough
23 capacity on the system to meet the reliability in both
24 areas. There is significant disagreement about the role of
25 capacity in day-to-day operations. And I can tell you that
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1 when we use capacity obligations to respond to reliability
2 situations and allow RTOs, as they do today, to unilaterally
3 cut things, we lead to not only economic problems but
4 significant reliability problems.

5 Just to talk about a seam that maybe will get
6 people less excited because it's two different RTOs than
7 these ones, we routinely see New England and New York
8 cutting exports when one RTO may be going into a 30-minute
9 reserve shortage and causing the other RTO to potentially go
10 into a 10-minute shortage, which means the RTO that is not
11 receiving the megawatts is perilously close to shedding firm
12 load, while the other one is not close at all. And that may
13 be the outcome of today's system where, you know, you have
14 capacity transactions that go in one direction or the other
15 based on economics and the planning horizon.

16 But in the operating horizon, nobody is going to
17 feel good if RTOs are taking these sorts of unilateral
18 reliability actions to cut transactions and causing firm
19 load to be shed in the neighboring areas.

20 What really ought to be happening is, regardless
21 of which way the capacity is flowing, the RTOs--I talked
22 about interchange optimization, which you can think of as
23 maximizing the economic use of the interface--but when we
24 get to a reliability situation, we really ought to be
25 maximizing the reliability value of the interface.

26

1 And RTOs should not be cutting things. I think
2 in the long run what should be required is that the
3 interchange be adjusted to maximize reliability regardless
4 of which way capacity happens to have been imported or
5 exported. Because, just because MISO is a capacity exporter
6 to PJM, for example, doesn't mean that it's likely that PJM
7 is going to be the one that is short on the hot day.

8 That depends on a lot of different factors. And
9 I think if you address that issue, then this--some of the
10 issues around capacity deliverability become much less
11 important.

12 DR. BOWRING: Can I just add that transmission,
13 the transmission system and the physical generation
14 capabilities are a limit on markets, whether we like it or
15 not. They are a constraint on markets. Markets have to
16 operate within those physical limits.

17 Within an RTO, we have transmission constraints
18 all the time that affect the way energy is dispatched. You
19 can't get away from that. And the notion that we should
20 ignore capacity ownership when we have a hot day is also I
21 think again inconsistent with markets.

22 If PJM has paid for capacity, PJM load has paid
23 for capacity which is being exported to New York and PJM
24 load needs it, then there's a choice between where there's
25 going to be load shed. I mean, that's what a market is
26

1 about. It's about ownership rights and having paid for it.
2 So it actually would make sense in that case for New York to
3 shed load and PJM not. Or, the reverse, because in fact
4 there's substantial capacity exports from PJM. PJM is
5 actually obligated to shed load and not cut a capacity
6 transaction from PJM to New York, that makes sense. That's
7 consistent with the rules of the market. Everyone has to
8 understand that you get what you pay for, and there is this
9 interaction between markets and the underlying physical
10 reality.

11 Now can we do it better, and the examples of it
12 where the--of course we can do it better. So the first
13 steps would be the energy optimization. But also having
14 comparable rules in terms of what the actual criteria are
15 for cutting load, and for going into a scarcity or a
16 shortage situation.

17 Thanks.

18 COMMISSIONER NORRIS: Thanks. Pardon my
19 awkwardness in introducing that question, but I'm glad I
20 did. That's why I'm struggling with this, the approach of
21 either or both, and there's obviously some both to it. But
22 that is helpful. Thank you.

23 CHAIRMAN WELLINGHOFF: Thank you, John. Cheryl.

24 COMMISSIONER LaFLEUR: Well thank you. This has
25 been fascinating, listening to the discussion. Every since
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1 Standard Market Design crashed and burned a long time ago,
2 all the RTOs have developed their unique forms and tariffs
3 respecting regional differences, like the fact that, you
4 know, the Midwest has a whole different underlying structure
5 of vertical integration than some other parts of the
6 country.

7 And so the seams' issues, I mean the two of you
8 have probably done more on seams I dare say than anyone, and
9 there's still a long, long list of things to work on.

10 As I look at the list, and in listening to the
11 last questions especially, it seems like there's a mix of
12 coordination things that you do to optimize, and kind of
13 more fundamental gnarly things. And where I feel the real
14 heat coming seems to be differences in the markets between
15 the fact that PJM has the forward capacity market, and MISO
16 runs its resource adequacy a different way, seems to be
17 where I see the most bite here.

18 And short of Dr. Bowring's vision of this big
19 colossal RTO, are there opportunities for more market
20 convergence? I mean, do you see the markets getting closer
21 together over time so there's less of that kind of
22 commercial tension? Or are we actually--are they more, as
23 they kind of calcify, they are getting farther apart?

24 MR. OTT: I think I see more energy market,
25 especially Real-Time operations transforming into the Day-

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1 Ahead energy market. I see more coordination there. I
2 think there, as Dr. Bowring indicated, I think Dr. Patton
3 had indicated, that's where the money is. If we can do a
4 better job of coordinating the energy markets, I think
5 stakeholders will jump at the chance to do that.

6 There are certain equity issues that will need to
7 be addressed before we get there, like transmission outage
8 scheduling and some of the things like that. But I think
9 you will see that.

10 I think the question on capacity, though, which
11 is just fundamentally, and that's sort of--I think
12 Commissioner Norris had indicated sort of defense versus
13 offense--I think it was really more I think we both, PJM and
14 MISO sincerely want to improve the seam.

15 I think the question is: What's the highest
16 value item to work on?

17 And I think if you looked at the commercial
18 aspects, it's the energy markets. That's really where I
19 think you'll see more work. And any improvement you make in
20 energy, then you may be able to make improvement in
21 capacity.

22 But this fundamental disconnect between a forward
23 capacity market and a shorter-term capacity market I think
24 gives you some limitations on how far you can go in
25 capacity, I think, because they are just fundamentally
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1 different. But I don't think that has the same
2 characteristic in the energy side.

3 On the energy side we are much closer, design
4 wise, and I think there's a lot more capability there. And
5 that is sort of where we're at. That's where we should put
6 the primary focus. That's not to say we should ignore the
7 others, but I think we have some positive things that can
8 happen. I think both RTOs are committed to that.

9 COMMISSIONER LaFLEUR: Dr. Patton?

10 DR. PATTON: Yes. I do think that the markets
11 are going to evolve and make it easier. The one thing that
12 I agreed with the comment earlier is that the MISO capacity
13 market still has a ways to go, which I don't think will be a
14 big surprise if you've been reading my state of the market
15 reports.

16 And the biggest thing I think, when you look at
17 resource adequacy in MISO and elsewhere in the country,
18 there's one common denominator in the RTOs that price
19 capacity in ways that will facilitate enough investment to
20 maintain adequacy. And a common denominator in those that
21 don't seem to be doing that. And that's the slope demand
22 curve. Because the slope demand curve reflects much more
23 accurately the fact that, as you build more capacity,
24 reliability value continues to be delivered but it
25 diminishes over time.

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1 New England and MISO, where we have basically
2 vertical demand curves, it produces--because that's an odd
3 way to think about the value of the reliability from those
4 planning megawatts, it produces an odd performance in the
5 capacity markets. And I think ultimately MISO will get
6 there. And that I do think will improve the interaction
7 between the two markets.

8 I don't think the time frame is necessarily a
9 barrier to trading capacity nearly as much.

10 COMMISSIONER LaFLEUR: Commissioner Bennett?

11 INDIANA COMMISSIONER BENNETT: I don't have a
12 crystal ball, so talking about that longer term capacity
13 market issue and whether there will be a future convergence,
14 it's impossible for me to say anything about that.

15 I do have the benefit of hindsight, and the
16 recognition, as you've acknowledged, that if you're looking
17 at the longer term reliability resource adequacy issues, PJM
18 and MISO do those things very differently because of the
19 regional differences that we have.

20 As you acknowledged, the vast majority of the
21 regulatory structures within MISO are traditionally
22 regulated. And the majority of the region within PJM is
23 retail choice. And I think that the reason that you have
24 those differences in capacity, those four capacity markets,
25 is very much a reflection of that.

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1 I think if we spend too much time focusing on
2 that as a problem or a barrier, dealing with any seams
3 issues and capacity deliverability in particular, we are
4 selling ourselves short of an opportunity to focus on first
5 of all, I'll go back to our theme of fact finding.

6 We need to make sure that we really thoroughly
7 understand all of the issues that need to be considered in
8 this. But we are also missing an opportunity to come up
9 with some rational solutions that do still respect the fact
10 that each RTO has its own processes for some very legitimate
11 purposes.

12 COMMISSIONER LaFLEUR: Thank you. I just have
13 one other question. One of the facts we do have that seems
14 quite significant is that the recent PJM capacity markets
15 seem to produce a very different amount of capacity coming
16 from the Midwest than in earlier years.

17 So I guess I'm curious, from Clair or anyone, do
18 we think there's a lot more unlocked capacity in the Midwest
19 that's trying to get out? Because MISO's reserve margins
20 are going down, too, because of all your retirements.

21 I mean, are we getting to where what needs to get
22 out, you know, if all was working well, is getting there?
23 Or is there a lot more that's trying to get out than already
24 cleared? Or, you know, no crystal balls, but--

25 MR. CLAIR MOELLER: So we continue to believe
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1 that capacity will tighten over time, and we continue to
2 believe that opportunities for generators in both regions to
3 participate in the other region's markets are valuable for
4 consumers.

5 So while in the short run it appears that we are
6 capacity long in MISO, and PJM can benefit from accessing
7 and acquiring that, we would expect that to flip over time
8 as--hypothetically, as PJM would see more gas-fired
9 generation in the Marcellus region.

10 We continue to have a lot of coal. Who knows
11 what environmental regulations will do what to coal over
12 time. Essentially what we're saying is, for consumers the
13 best outcome is as much flexibility as we can provide. And
14 that includes as much market reach as we can provide. And
15 that's why we're interested in working on this, on the
16 longer term.

17 You know, we agree there are short-term things
18 that we should do. But we think we need to find venues to
19 have these longer term issues actively worked on and not
20 wait until 2016 when it's a crisis and I'm here with my hair
21 on fire trying to figure out how to get access for our
22 customers to generation in the Marcellus shale.

23 COMMISSIONER LaFLEUR: Chairman Montgomery?

24 WISCONSIN CHAIRMAN MONTGOMERY: Thank you.

25 Actually, staff had me very well prepared for this. First,

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1 of the 7500 megawatts that cleared auction, 2700 megawatts,
2 36 percent, has not secured transfer--firm transfer. And
3 PJM/RPM guidelines require firm transmission secured.

4 Next, the actual total transfer still requires
5 fact finding. How big is that number? And what are the
6 cost implications?

7 And last but not least, the MISO/PJM interface
8 transfer capability is unknown, and it is not transparent.
9 And so part of the effort is finding that number, making it
10 transparent, as well as some of the other issues.

11 COMMISSIONER LaFLEUR: Thank you. I'm glad to at
12 least ask one question that you expected.

13 (Laughter.)

14 INDIANA COMMISSIONER BENNETT: I would like to
15 reflect on something Clair was just talking about, and it
16 has to do with his answer to your question about what the
17 future looks like.

18 One of the other things that Clair and I in
19 particular have talked about as we're looking into the
20 future of resource adequacy within the MISO footprint is,
21 it's fairly obvious that there are going to be a lot of
22 retirements over the next several years going into that
23 2015-2016, especially, timeframe.

24 The other thing that I think that we want to see
25 what we can do on a variety of issues, including capacity
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1 deliverability, has to do with the fact that replacement
2 generation should be appropriately sized.

3 We would prefer not to see overbuilding happen in
4 the future so that we get to those very generous excess
5 reserve margins in the future. And everything that we can
6 do to optimize, including capacity deliverability with other
7 regions, is very helpful in making those decisions, those
8 right decisions, for the future.

9 COMMISSIONER LaFLEUR: Thank you.

10 CHAIRMAN WELLINGHOFF: Thank you, Cheryl. Tony.

11 COMMISSIONER CLARK: Thanks. My questions I
12 think have primarily been asked and answered, so this
13 probably falls into the category of observation and you can
14 respond to it or not.

15 First I would just compliment the filing of OPSI
16 and OMS. I thought it was very substantive. And in many
17 ways as I read through it, I thought well this is kind of
18 the blueprint for where we should be going from here. So
19 kudos on that. I think it's very good work, and it offers a
20 good way of framing the questions and the issues in the
21 context of what is in the best interests of consumers first,
22 and then we can work from there.

23 So I think it offers the Commission, as I said, a
24 blueprint.

25 Where there seems to be a bit more disagreement,
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1 and I have to say that I am not entire--I'm waffling as I
2 sit here--is on the issue of how much of a thumb does the
3 Commission put on this in terms of pressing things along?

4 I am concerned that the benign neglect model
5 didn't work very well for the last, you know, six or seven
6 years. The JCM has been going on awhile, and it was only
7 recently that it was reinvigorated. So it may require
8 something more than that.

9 The question becomes, in my mind, is it simple
10 reporting? Or is it something more like a timeline? And
11 I'm not sure that I have that firm in my mind.

12 As I said, history would seem to indicate that we
13 need to do something more than just kind of be an observer
14 in the back of the room. Any more sort of food for thought
15 that anyone can provide on exactly what sort of guidance we
16 can give that falls somewhere between kind of the PJM
17 position and what I would characterize as the MISO position,
18 which is a little bit more of a nudge as opposed to a little
19 bit less, would be helpful. Thanks.

20 WISCONSIN CHAIRMAN MONTGOMERY: First to your
21 comments on the OMS and OPSI, the authors are in the room,
22 Tia Elliott and Chris Devin worked collaboratively across
23 the frames with the oversight of the OMS president, Kari
24 Bennett, and Commissioner Finley. So thank you for those
25 comments.

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1 Commissioner Clark, I would say very simply: As
2 you identified, to bring JCM back together, we identified
3 that we needed a role. The next identification was an
4 understanding of a governance accountability and
5 transparency. That is what we have been working on.

6 So we are just now at the--our ability that we
7 believe, that JCM has the tools in place to address these
8 issues.

9 To answer your question, if you don't have
10 somebody with a hammer is that going to be needed? Yes. We
11 don't doubt it. All we're asking I guess is advocates of
12 the JCM process, the fact that we've not gotten into some of
13 this yet, give us at least a period of time to see if we can
14 make it work. But obviously at some point a hammer is
15 always needed and we're not opposed to that. But I will
16 say, we have not had a chance to delve in substantively to
17 the issues.

18 MR. OTT: Commissioner Clark, I think as Chairman
19 Montgomery indicated, we have momentum. We have engaged
20 stakeholders. We are actually making progress. There are
21 at least six of those items that have milestones,
22 timeliness, work plans, et cetera. MISO and PJM have been
23 talking about a work plan interrelated to the discussions on
24 capacity portability. We are going to present that to the
25 stakeholders and say here is a work plan to get these

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1 discussions done by the timeframe that Clair had indicated.

2 We will talk to the stakeholders about that and
3 work it into the process. The point is, even something as
4 simple as reporting to the Commission, if the reporting to
5 the Commission is we all writing comments to the Commission
6 and you all get a bunch of comments, what that does to the
7 stakeholder link is if I as a stakeholder am in good faith
8 negotiating my position, I'm going to give a little, take a
9 little, try to get a collaborative process going, and
10 somebody does the end run and throws in a comment to you
11 all, it just backs everybody away from the table and gives
12 them more of an incentive to let's just wait and see what
13 happens down there.

14 So it ends up, you own the process. My
15 suggestion to you all is, even the most benign--you all have
16 staff. They can monitor the process. They can watch.
17 These meetings are open. You can see the dynamic. I'm sure
18 you can talk to us all.

19 If you have periods of time where you incent
20 people to throw comments down to you all, it may actually
21 detract from the process. Again, you all need to decide how
22 much you want to be involved, but just something as simple
23 as staff monitoring it I think is a very powerful incentive
24 also. But I would caution against having the events down
25 here too often.

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1 COMMISSIONER CLARK: But just to follow up on
2 that, I mean staff had monitored this process for some
3 period of time over the last six or seven years, and it
4 stalled. And my concern is, I don't want to be sitting here
5 in another six or seven years saying, yeah, you know, we
6 still need to be, what should the priorities be? And is
7 this really a problem, and something we can work on? In the
8 meantime, we've had serious reliability issues.

9 So I am trying to differentiate between what the
10 difference between what that suggestion would be going
11 forward is, and what happened over the last period of time.

12 MR. OTT: I think the JCM process you indicated
13 that stalled, I think it was moving at a very I'll say
14 "maintenance pace," meaning it wasn't an identified issue
15 the stakeholders had said we've got to get together and
16 actually renew the process, until about 18 months ago
17 where it became very obvious there were some things we had
18 to do.

19 And then the process started itself up but didn't
20 require an order from any specific area. So it wasn't a
21 maintenance period, but that may have been because there
22 were no issues, at least none that were raised. But again,
23 I mean, the point is we are engaged in a process where we're
24 moving forward. As long as whatever you do doesn't detract
25 from folks being collaborative within that process is really
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1 my message to you all.

2 COMMISSIONER CLARK: Clair.

3 MR. CLAIR MOELLER: Sort of "less filling" again.
4 it's been my experience this Commission isn't timid about
5 asking me for reports.

6 (Laughter.)

7 MR. CLAIR MOELLER: And in fact, transparency
8 that those reports provide we've found to be a very useful
9 tool at keeping the priorities fresh and people actively
10 problem solving.

11 We are not troubled by those reports, and our
12 experience is different than Mr. Ott reports. We find it to
13 be a valuable add to the process so that the oversight is
14 fresh, and that this Commission shows that it is a priority
15 of this Commission to keep proceeding.

16 A suggestion that I glossed over in my
17 presentation is perhaps this Commission could allow us time
18 to negotiate those schedules for when resolution might be,
19 and insist that as those resolutions occur the Commission is
20 provided with those kinds of reports about what those
21 resolutions are what minority opinions might be at those
22 milestone junctures.

23 It might be a little less disruptive than a
24 quarterly report because it would follow the milestones of
25 the schedule, but it would still be responsive to the need

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1 to continue to advance the ball. If the milestone isn't
2 done, you've got to send in an excuse. You said it's
3 October. It's October. How come we're not done? We're not
4 doing for the following four reasons. Here's what we're
5 working on. Here's the planned resolve.

6 It's just kind of standard project management
7 kind of reporting. It might be a ground that can continue
8 to show that this is a priority but not be burdensome to the
9 process itself.

10 WISCONSIN CHAIRMAN MONTGOMERY: I think, just in
11 common language, the low-hanging fruit was taken care of
12 early and often and collaboratively. When it was then
13 identified there were some very contentious issues left to
14 be addressed, we shied away from them.

15 But I think one of the things stakeholders stated
16 coming in was, wait a second. We have to get after the
17 contentious stuff. And so that's where we're at. So I
18 think when you put that with your timeline, I think you sink
19 a very direct correlation between the collaborativeness and
20 low-hanging fruit to, have things gotten more contentious?
21 Yes, they have. Do they require a different governance
22 structure, accountability? Yes, they have, and I believe
23 they're there.

24 COMMISSIONER CLARK: Thank you.

25 CHAIRMAN WELLINGHOFF: Thank you, Tony.

26

1 Let me just follow up here, just to make sure I
2 understand. So in the process, the JCM process, first of
3 all who is responsible for organizing the process? Who is
4 in charge of organization?

5 MICHIGAN COMMISSIONER WHITE: I'll offer the
6 RTOs.

7 CHAIRMAN WELLINGHOFF: The RTOs?

8 MICHIGAN COMMISSIONER WHITE: Yes.

9 CHAIRMAN WELLINGHOFF: And so is there a timeline
10 with milestones, internally?

11 MICHIGAN COMMISSIONER WHITE: Not that, you know,
12 concise, but--

13 CHAIRMAN WELLINGHOFF: Could we get one?

14 MICHIGAN COMMISSIONER WHITE: Well--

15 CHAIRMAN WELLINGHOFF: Because you can't do what
16 Clair says unless you have one, and I agree with what Clair
17 is saying. I think that is what we need to do, is sort of a
18 project management type thing of we'll let you formulate it.
19 We're not going to impose anything. But come to us and show
20 us what your timeline is, what your milestones are, and then
21 let's see that you're meeting the milestones and then we'll
22 talk about it if you're not and you can tell us why you can
23 or can't. I mean, that just makes sense.

24 MICHIGAN COMMISSIONER WHITE: And that's exactly
25 I think what we've been doing in this process. And, you
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1 know, as Chairman Montgomery has pointed out, we really
2 tried to focus early on on, you know, developing some form
3 of a structure and governance. So that it's not just
4 discussions without end.

5 CHAIRMAN WELLINGHOFF: Right, right.

6 MICHIGAN COMMISSIONER WHITE: You know, let's try
7 to figure out what needs to be addressed, and how we can go
8 about addressing that. And that's where I'm very
9 complimentary of the JCM process. I feel like both of the
10 RTOs have really come together on this. And as I've
11 observed from my seat, we are making tremendous progress.
12 And also there is a constant look at what we're doing, when
13 we're doing it. You know, so kind of a reprioritization as
14 we move forward.

15 It has been I think a good process so far, very
16 collaborative and bringing the parties, moving things
17 forward better than we have in the past.

18 CHAIRMAN WELLINGHOFF: I appreciate that. But
19 from my standpoint--I don't know about my colleagues--but I
20 would appreciate seeing a timeline, and milestones, and a
21 structure. I mean, I think that would be very helpful to us
22 as far as seeing that things are moving forward.

23 WISCONSIN CHAIRMAN MONTGOMERY: So, Mr. Chairman,
24 having learned my lesson before, Commissioner White and I
25 agree to that. What we would ask of you is, let us take
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1 that back to the JCM and see if we can collaboratively come
2 up with a structure that we can bring back to you, and we
3 will do that in less than three months.

4 CHAIRMAN WELLINGHOFF: That would be great.

5 WISCONSIN CHAIRMAN MONTGOMERY: We have two
6 meetings scheduled. I don't know if we have the ability to
7 add it to our next agenda, but we will collaboratively
8 address that and report back to the Commission. How does
9 that sound?

10 CHAIRMAN WELLINGHOFF: That would be terrific.
11 Thank you, very much. We appreciate it.

12 Does anybody have anything else?

13 COMMISSIONER NORRIS: Just one more?

14 CHAIRMAN WELLINGHOFF: Go ahead, John, sure.

15 COMMISSIONER NORRIS: Thanks. Thanks for that
16 discussion, and thanks for sharing your thoughts. I think
17 it's great for you guys to get some sense of where our heads
18 are at, and the Chairman's follow-up.

19 I would just say to Mr. Ott, I don't disagree
20 that if we get too much of our hand in this thing there is
21 some chance of driving stakeholders back.

22 Having said that, is why I asked the question of
23 the OMS and OPSI. Is there an issue? Or is the issue how
24 do we resolve the issue? So you know where my head's at, my
25 sense is that there is a "there" there. And we are going to
26

1 have to figure out how to get the issues resolved to create
2 more efficiencies and create a better path to
3 deliverability.

4 So just following up what the Chair said, I think
5 if that's where we're at we need to have you know that
6 there's an expectation to make a determination so that we
7 know how to move forward. And it can't be prolonged just
8 for the sake of not feeling the pressure.

9 MR. OTT: And I agree with you. I think the key
10 point is the timeline milestones that we're discussing here
11 are for the entire process. So it is on transmission outage
12 coordination. It's on transmission planning coordination.
13 It's on energy market coordination. And I wholeheartedly
14 support that.

15 Us developing through this process, in fact we
16 have milestones and timeliness for some of the high-priority
17 items already. But actually ferreting that out and coming
18 up with a family, what I as objecting to was a separate
19 timeline and process for the capacity item and not the
20 others, because I think that would be viewed by stakeholders
21 as very disruptive.

22 If what you're asking is that we discuss with
23 stakeholders and with each other how are we going to
24 reasonably get through a work plan on this family of items,
25 that's absolutely--makes perfect sense. I think it avoids
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1 the concept of then every once in awhile you all get a
2 report that everybody jumps in and throws in their comments,
3 but it gives you some reasonable assurance that, hey, there
4 is a process, there is a plan. And oh, by the way, if the
5 plan said you're going to do something in December of 2013,
6 and that did not happen, what's up? Is it just--so that
7 makes a lot of sense.

8 As long as it's the family of issues, I think
9 we're good there.

10 CHAIRMAN WELLINGHOFF: Thank you for that
11 clarification, Andy, and thank you, John, for that question.
12 Does anybody else have anything else of this panel?
13 Okay, I think we are through this discussion. I thank you
14 all very much and we appreciate it. I don't think there is
15 anything else on our agenda.

16 SECRETARY BOSE: Nothing more, Mr. Chairman.

17 CHAIRMAN WELLINGHOFF: Thank you. With that, we
18 are adjourned.

19 (Whereupon, at 12:26 p.m., Thursday, June 20,
20 2013, the 995th meeting of the Federal Energy Regulatory
21 Commissioners was adjourned.)

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