

BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION

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IN THE MATTER OF: : Docket Number
TECHNICAL CONFERENCE ON INTERCONNECTION: AD08-2-000
QUEUING PRACTICES :
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Hearing Room 2C
Federal Energy Regulatory
Commission
888 First Street, NE
Washington, DC

Tuesday, December 11, 2007

The above-entitled matter came on for technical
conference, pursuant to notice, at 9:35 a.m.

BEFORE:

Chairman Joseph T. Kelliher
Presiding.

1 Present:

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3 Commissioner Jon Wellinghoff, Commissioner Marc
4 Spitzer, Commissioner Philip Moeller and Commissioner
5 Suedeen G. Kelly.

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P R O C E E D I N G S

(9:35 a.m.)

CHAIRMAN KELLIHER: Good morning.

Why don't we close the doors in the back.

I want to welcome you to the FERC technical conference on Interconnection Queuing Practices. I am very impressed with the level of interest in this technical conference.

The purpose of the technical conference today is to discuss issues relating to the interconnection queue in different regions of the country. The interconnection queue process, of course, is governed by Order Number 2003, which standardized the agreements and procedures related to the interconnection of large generating facilities.

The rationale for this important rule was that establishment of a standard set of procedures as part of the open access transmission tariff for all jurisdictional transmission facilities will minimize opportunities for undue discrimination and expedite the development of new generation while protecting reliability and ensuring that rates are just and reasonable. I believe this objective is still sound.

We pursued this goal by establishing a set of comprehensive queue management procedures. However, some regions of the country are experiencing various challenges

1 to the interconnection queue process.

2 In general, surges and development of new
3 generation are taxing the queue management process.
4 Unprecedented demand in some regions for renewable
5 generation presents different challenges. The planning
6 horizon for wind generation may be shorter than for other
7 generation facilities. Wind facilities can generally be
8 brought on line more quickly. Any delay in the
9 interconnection process is significant.

10 There also is the reality that many states have
11 adopted aggressive renewable portfolio standards, which
12 drives much of the demand for new and renewable energy
13 facilities. In regions that have adopted capacity markets
14 such as New England, the key issues are different still. A
15 question of whether a resource that is chosen through a
16 capacity marketing auction moves to a higher place in the
17 queue has arisen. Queue management issues are not limited
18 to the organized markets. They stand outside regional
19 transmission organizations and independent system operators.

20 Order 2003 adopted a first come-first served
21 approach to queue management. That has a manifest virtue of
22 preventing undue discrimination in prefacing queue
23 management. However there are competing policy goals such
24 as a need for new electricity supply, the demand for
25 renewable energy driven in large part by state renewable

1 portfolio standards, and the need to complement newly
2 established capacity markets.

3 Today the purpose of this conference is to
4 identify the various challenges relating to the queue
5 management process with some precision and to explore
6 possible process reforms. Perhaps there are different
7 approaches to the queue management process that better serve
8 these competing policy goals while still guarding against
9 the potential for undue discrimination in preference.

10 I think there's sufficient flexibility within
11 Order 2003 to adopt certain reforms. I want to commend Ray
12 Palmer. This is the maiden voyage, you could say, and I
13 want to thank Ray and his staff for organizing this
14 conference today. I think it's very well organized and the
15 briefing books are very helpful.

16 I do want to encourage the speakers -- ask the
17 speakers in their comments to differentiate between proposed
18 solutions, short-term solutions, to deal with immediate
19 queue problems and differentiate those with longer-term
20 approaches that we might want to consider.

21 And I do want to provide an explanation: I have
22 to leave this technical conference a little early. I'm
23 going to stay for the panel of our state colleagues. But I
24 will have to leave a little bit earlier. We have an
25 important congressional hearing tomorrow regarding our

1 authority to permit market manipulation and I have some
2 meetings on Capitol Hill regarding that hearing.

3 But I don't want anyone to infer from my
4 departure that I don't have an interest in this subject.
5 It's just tomorrow's hearing is very important.

6 In my absence I've asked Commissioner Kelly to
7 chair the hearing. And in my absence I think it's only
8 fitting, since this technical conference was her idea in the
9 first place. I assure you I will review the record of the
10 technical conference after we're done. My staff will
11 participate.

12 With that, I will turn to my colleagues and ask
13 them to make some opening statements.

14 Commissioner Kelly.

15 COMMISSIONER KELLY: Thank you, Joe.

16 Thank you all for being here.

17 I think we're here today almost because of an
18 embarrassment of riches from open access in Order 888 and
19 Order 2003. How they combined have provided significant
20 business opportunities for merchant generators in many parts
21 of the country, particularly generators in renewables. And
22 we've seen the response. The response has been overwhelming
23 in some parts of the country.

24 So it's now time to look at our interconnection
25 process and see whether there are tweaks that need to be

1 made to ensure that we can continue to study these projects
2 and interconnect them as quickly as we need to.

3 I know that today we're going to hear from a
4 number of different panels. I want to thank you all for
5 being here, particularly the states, to tell us what the
6 concerns are for you.

7 The subsequent panels are going to talk about
8 whether the first come-first served goal is the only goal we
9 should be following.

10 As Chairman Kelliher suggested, there are other
11 potentially competing policy goal or goals that we need to
12 consider as well. We'll be looking today at options for
13 reducing the size of the queue, options for managing a large
14 queue, including perhaps clustering, stricter milestones in
15 the study process, perhaps the use of outside consultants to
16 help the study process move along and other options for
17 facilitating queue management, including perhaps open
18 season, which Bonneville is exploring.

19 I'm looking forward to a very productive day. I
20 like the idea that we're having a conference here not only
21 to highlight the problem but also to talk about solutions
22 and solutions that we can implement on a quick basis.

23 Thanks.

24 CHAIRMAN KELLIHER: Commissioner Wellinghoff.

25 COMMISSIONER WELLINGHOFF: Thank you, Joe.

1 I think the queue process is broken; it needs to
2 be fixed. In MISO we have 85 percent of the development of
3 the queue is wind in Cal ISO. 61 percent of the development
4 is wind at a critical time when we need to get these
5 renewables online. We've got to figure out how this process
6 can be made more efficient, more effective, for the
7 developers waiting patiently for the place in these queues
8 so we can get these renewable portfolio standards set aside,
9 but more importantly so we can reduce greenhouse gas
10 emission through the use of renewable resources that are
11 waiting to be put on the transmission line.

12 I want to definitely thank all the panels for
13 participating in this. And I really want to thank the
14 Energy division sector for their work in organizing this
15 panel. What you put together is very useful and very
16 helpful and I'm very much looking forward to the proposed
17 solutions people are going to offer today.

18 Thank you.

19 CHAIRMAN KELLIHER: Commissioner Spitzer.

20 COMMISSIONER SPITZER: Thank you, Mr. Chairman.

21 I first want to thank Commissioner Kelly for
22 meeting with me and bringing this issue to my attention a
23 couple of months ago. Then we heard from the community, and
24 that has been very helpful as well, as well as the materials
25 that we've received, each of which in its own way proposes

1 some solutions.

2 It's my hope that with the work of the Staff we
3 can move forward in fleshing out some of these proposals and
4 discussing the pros and cons. Clearly we have a paradigm
5 that was based upon the combined cycle gas turbine. The
6 realities are quite different from that original paradigm.
7 It's always a challenge from government to keep up with
8 changes in the marketplace and changes in technology. And I
9 think that is one of the impeding factors in the current
10 circumstance.

11 The second -- and it's been alluded to -- and why
12 we're so appreciative of our state colleagues being present
13 at the first panel -- is the state parties regarding
14 renewable standards. Having spent many years -- in fact, my
15 first vote as an Arizona Commissioner in 2001 was an RPS and
16 making modifications to that. It was a long difficult
17 process during which many competing interests had to be
18 balanced.

19 Each RPS is going to be reflective of the
20 circumstances and priorities of the states. That's entirely
21 appropriate with our federal system. But I am very
22 cognizant of the importance of the state RPS and the need
23 for the Federal Government to accommodate where it can state
24 interests.

25 We've got that further dilemma of where the

1 Federal Government must have uniform federal statutes and
2 rules, yet be flexible enough to accommodate the divergent
3 interests of the various states. That's appropriate.

4 What jumped out at me in reading both the Staff's
5 matrix as well as some of the proposals from the
6 jurisdictions, the ISOs and the parties, is this dilemma of
7 efficiency and fairness. Obviously there are some areas
8 where there can be a harmonious resolution. But there can
9 also be a tension.

10 I remember in my days in the legislature I would
11 have wind developers come and -- I don't mean to be
12 pejorative, but the ponytail set, because I can't grow a
13 ponytail. And those folks would come in. And then you had
14 the mainstreaming of the ponytail folks who now have to live
15 harmoniously with the suits. And there is, frankly, a
16 tension.

17 I would like that discussed for those who are
18 working on the proposals, including changing first in time
19 milestone standards, increasing application fees, the
20 concept of open season. These are all very intriguing and
21 interesting. But I want to make sure that we don't in our
22 goal of getting more renewable resources online and
23 increasing the efficient interconnection to reduce the
24 queue, I don't want to sacrifice the fairness with the idea
25 that each developer, regardless of their wealth and

1 financial circumstances, has the ability to have a fair
2 opportunity because government is also about fairness as
3 well as efficiency. Aligning it properly to calibrate those
4 competing interests I think is a real challenge.

5 That challenge I think is going to be how we
6 dispose of these various proposals, all of which I'm very
7 excited about and looking forward to listening to.

8 Thank you very much, Mr. Chairman.

9 CHAIRMAN KELLIHER: Commissioner Moeller.

10 COMMISSIONER MOELLER: Thank you, Mr. Chairman.

11 I want to thank you and Commissioner Kelly for holding this
12 and having the idea to essentially get us all together here.
13 It's a Staff-led conference. But the five of us are here,
14 which should indicate our level of interest in this subject.

15 I, too, want to thank the panelists, many of whom
16 came from a long ways away and made a significant effort to
17 be here, and the fine work of the Staff in putting the
18 material and the conference together on relatively short
19 notice.

20 As Commissioner Kelly said, this is, though, kind
21 of a good problem to have. You might not think so as a
22 developer. But we did have the issue about 2000, 2001 where
23 queue problems were creating a real uncertainty,
24 particularly in the west. And then that faded away. As the
25 glut of generation was out there and obviated the need for

1 new plants. Now we have the same problem. So it's a
2 challenge.

3 But it's a challenge of riches in figuring out a
4 more efficient way of dealing with people who want access to
5 the grid. But it's clear that not only the raw numbers
6 we've heard about the size of the queue throughout the
7 country in the different regions. But the level of interest
8 in this room and presumably on the Internet, this is
9 something we need to deal with sooner rather than later.

10 I also want to point out that we don't want to
11 forget that we still need more transmission in this country.
12 Although that will not be a cure-all for all the queue
13 problems, it will certainly help alleviate some of the
14 problems we have. And obviously more infrastructure will
15 benefit the markets and the products that are being sent to
16 markets.

17 Thank you again for holding the conference, Mr.
18 Chairman.

19 CHAIRMAN KELLIHER: I just want to repeat my
20 colleagues. We've all been impressed with the preparation
21 for this. We were impressed it wasn't a six-inch binder. I
22 think that has something to do with the organizers. The
23 prodigal daughter, Mary Morton.

24 MS. MORTON: That's what happens when we have a
25 short time to prepare.

1 (Laughter.)

2 CHAIRMAN KELLIHER: I'm giving you the benefit of
3 the doubt. You knew your market, you knew your audience,
4 and you gave us exactly what we needed. Not every piece of
5 paper in the building that related to the queue.

6 So I do want to thank my colleagues, our state
7 colleagues for being here. I think we have some of the best
8 state commissioners and regulatory staff. I hope you won't
9 tell your colleagues that I just said that.

10 (Laughter.)

11 CHAIRMAN KELLIHER: Why don't we turn to Ray just
12 to provide a few words about how the day is going to proceed
13 and an overview of the meeting.

14 MR. PALMER: Thank you, Mr. Chairman.

15 I would like at this time to remind the audience
16 to please silence your pagers and cell phones.

17 Also just to announce that if anyone needs to use
18 the facilities they're located behind the two elevator banks
19 on either side of the Commission room.

20 I also remind the speakers that we would like to
21 keep your comments to five minutes. For your convenience,
22 we have a timer available. This timer, there will be a
23 green light and then it turns yellow when there's a minute
24 left where you presumably should start summing up, and then
25 red light when the five minutes are up.

1 Also, if the speakers are unable to get all their
2 points made that they would like to during their time, we
3 will be taking written comments for a period of thirty days
4 after this conference -- that is until January 10th.

5 I believe that's all the administrative
6 announcements. And I will turn it back to you, Mr.
7 Chairman.

8 CHAIRMAN KELLIHER: The first panel is seated.
9 Why don't we start at the beginning.

10 I'd like to recognize the Honorable John Norris,
11 Chairman of the Iowa Utilities Board and president of the
12 Organization of MISO states.

13 Welcome.

14 CHAIRMAN NORRIS: Thank you, Chairman.

15 Thank you, Commissioners, for this opportunity.
16 In ginning up this first panel you've asked us to address
17 how the current queue processes are affecting attainment of
18 state policy goals. Let me just add this also has the
19 potential to affect federal policy goals as we see RPS and
20 fuel diversification issues arising at the federal, too.

21 It has become broadly recognized that the
22 interconnection queue process has become a serious
23 impediment to the development of the new generation
24 resources. If you literally interpret the MISO queue it
25 would be 300-plus years to process all current requests. If

1 we break it down into study groups it would shorten that
2 time frame under MISO's restriction to only 40-plus years.
3 For Iowa and the Midwest this represents a serious
4 obstruction, particularly to wind development.

5 Currently MISO has over 71,000 megawatts in the
6 active queue process. Of these 55,000 megawatts are wind
7 projects. In the western portion of MISO that represents
8 49,000 of those 71,000 megawatts in the active queue
9 process. Iowa currently has 992 megawatts of wind
10 generation and an additional 384 megawatts of wind
11 generation are under construction in Iowa.

12 Iowa has 24 active projects in the MISO queue.
13 Approximately 4,023 megawatts of potential generation in
14 Iowa is in this MISO queue. About two-thirds of potential
15 generation in the MISO queue is expected to come from wind.
16 So about two-thirds of Iowa's queue backlog, if you will,
17 represents wind.

18 As some of you are aware, seven Midwest governors
19 recently sent a letter to MISO CEO Graham Edwards
20 experiencing serious concern for the interconnection queue
21 process and backlog and its negative impact on wind's
22 development. This queue backlog will have serious
23 consequences, real consequences for states with newly
24 enacted RPS standards and goals.

25 We sent an advance staff of the Iowa Utilities

1 Board to prepare just a quick summary of recently enacted
2 standards or goals of Midwest states of renewable portfolio
3 standards. Iowa former Governor Vilseck set a goal in Iowa
4 by 2010 to have 1000 megawatts in wind. We are now only
5 eight megawatts short of that in 2007.

6 And of course one mistake I made was Iowa on
7 this, our new Governor Culver has set a goal of 2015
8 megawatts renewable energy by 2015. We can get there. But
9 it's going to involve fixing this queue problem.

10 I think many of these RPS goals and standards set
11 by Midwestern states are achievable with the exception of
12 having to fix this queue problem. It also -- to put this in
13 perspective, what it means for Midwest states, an April '07
14 study entitled Projections of Wind Generation in the Upper
15 Midwest says there are 11,289 megawatts of new generation
16 worth \$22.5 million in the twelve states that will be
17 constructed between 2007 and 2013. This represents \$59
18 million of these payments to farmers and ranchers, \$148
19 million in property taxes largely benefiting the rural
20 schools who need those resources, and over 10,000 jobs. So
21 we're talking about real consequences for not getting this
22 fixed.

23 The current process is broken and needs to be
24 fixed. We think we need to recognize that renewable
25 generation requires shorter time frames to install; that

1 while the stakeholder process is focusing on long-term
2 solutions, the short-term solutions are essential to fix
3 this backlog in the queue.

4 I would note that in the 2003 order the focus --
5 and I'll quote this:

6 "This delay undermines the ability of generators
7 to compete in the market and provides an unfair advantage to
8 utilities that own both generation and transmission."

9 A number of reasons are listed under Important
10 Factors for the standard interconnection process to limit
11 opportunities for transmission providers to favor their own
12 generation. I bring this to your attention because what I
13 think we have done here is in the emphasis to avoid undue
14 discrimination largely targeted on transmission owners and
15 generators we have now had this first in-first out process
16 that extends undue discrimination probably to where we
17 didn't need to extend it, and that many of the people in the
18 queue -- entities in the queue have significantly different
19 circumstances and that they probably don't need -- or should
20 be treated equally.

21 So I would just urge you to look at are we
22 extending this unfair discrimination beyond the intent of
23 2003 and we need to treat these proposed generation
24 facilities differently, and they shouldn't necessarily
25 receive a -- quote -- equitable treatment in the first in-

1 first out process.

2 Secondly, I would just encourage you to continue
3 to create opportunities for transmission investment. MISO
4 was looking at the verification of transmission projects
5 through the long-term expansion planning projects to address
6 remote-located generation such as wind.

7 I would also encourage you to continue to press
8 forward on transmission investment, allow planning for
9 transmission to have equal footing with planning for
10 generation.

11 Thank you very much.

12 CHAIRMAN KELLIHER: Thank you very much, Chairman
13 Norris.

14 I would now like to recognize the Honorable Ron
15 Binz, Chairman of the Colorado Public Utilities Commission.

16 CHAIRMAN BINZ: Thank you, Chairman Kelliher and
17 members of the Commission. I appreciate the opportunity to
18 speak today. I am here to talk about the situation in the
19 intermountain west.

20 Although I have attempted to gather anecdotal
21 information from my colleagues, you should take my comments
22 to be my own. Nevertheless there are certain
23 characteristics of the intermountain west that I think ought
24 to inform any changes you make in your rules governing the
25 queue process.

1 I was appointed in January by the new governor of
2 Colorado who made Colorado's new energy economy a major
3 plank in his platform in running for governor. The energy
4 economy in Colorado, the energy industry in Colorado is
5 inextricably tied to our state's economic development given
6 the wealth of renewable resources in our state.

7 Colorado is blessed with huge amounts of wind
8 resources and solar resources of the type that can
9 eventually be turned into base load dispatchable solar
10 resources through concentrating solar. You're going to hear
11 a lot about wind today, but you should also keep solar in
12 the back of your head as you consider this.

13 Colorado's economy is tied to this not only in
14 the energy industry per se, but also in the ancillary
15 businesses that attend that, such as manufacturing.
16 Colorado is now the site of a 400-employee wind blade
17 manufacturing facility from Vestis in Winds for Colorado.
18 That's in our view just the start.

19 While queuing may be an abstruse issue in some
20 ways, once you start tracing what its effect is you're going
21 to find that it's going to be right at the heart of what a
22 lot of these states wish to be able to do.

23 In some ways you've got a tale of two countries
24 here. You're got the organized markets, mostly in the
25 Midwest and the northeast. You've got the intermountain

1 west, which is largely still a vertically-integrated
2 regulated utility structure. That means that you are going
3 to see in the west probably not only a maintenance of the
4 amount of integrated resource planning, but probably an
5 increase in that as climate change requirements come down
6 either from state legislatures, regional regulatory
7 authorities, or congress, eventually.

8 So I think you need to again accommodate that
9 consideration as you view various changes in these rules.

10 And you may want to consider that your rules
11 ought to accommodate separately states such as ours, which
12 enforce the competitive bidding for contracts for power for
13 the utilities who regulate the concerns about the potential
14 of a transmission owner to affect the fairness of the
15 selection of resources is in some sense mitigated in our
16 state by regulatory control over how those resources are
17 acquired by the utility. We support, of course, the thrust
18 of the series of decisions, beginning with Order 888.
19 However, there are some problems with the queuing process.

20 I'll be the second in a line of five who are
21 probably going to list many of the same issues. One issue
22 is the phantom project issue projects which inhabit the
23 queue. They've gotten there for a \$10,000 down payment only
24 to eventually never show up in the resource selection
25 eventually.

1 Another is what I'm going to call the PTC gold
2 rush. Every time Congress rolls over on the PTC you
3 suddenly get a rush of projects all ready to go all of a
4 sudden. That's nothing under your control but you can use
5 your good graces to convey to Congress how their start-stop
6 approach on PTC is wreaking havoc in the states with these
7 kinds of issues.

8 The prioritization of first come-first served is
9 in some sense inconsistent with the IRP process. Excel
10 Energy has created a work-around in Colorado. I'm going to
11 cite a paragraph in their OAT, Paragraph 4.2.2. That
12 basically allows the clustering by the load serving entity
13 and also permits them to obtain multiple scenario studies
14 from transmission organizations, something which they found
15 to be very useful. I want to be sure to highlight that.

16 I'm going to just skip to the end here I think
17 that's tweaking or clustering rules along the lines that you
18 suggested is something we would support you moving forward
19 on. Considering open season I don't know the implications
20 of that. But it is endorsed by some folks I've been talking
21 with. And I think it's certainly worth considering.

22 Finally, I realize this is the third rail of
23 transmission regulation. But I think reviewing your
24 standards of conduct and considering possible modifications,
25 especially in those states where you've got a state

1 regulatory commission with its hand on the tiller ensuring
2 that the state's resource planning supports improved
3 processes might promote reasonable amounts of communication
4 between transmission owners and companies which have
5 vertically integrated resources.

6 Thank you very much again for this opportunity.

7 CHAIRMAN KELLIHER: Thank you, Ron.

8 I'd like to now welcome the Honorable Anne
9 George, Commissioner with the Connecticut Department of
10 Public Utility Control Authority.

11 COMMISSIONER GEORGE: Thank you.

12 Good morning to everybody. I am a Commissioner
13 with the Connecticut Department of Public Utility Control.
14 But I'm also immediate past-president of the New England
15 Conference of Public Utility Commissioners. I'm here this
16 morning on behalf of those entities.

17 I appreciate this opportunity to give you the New
18 England perspective, which is somewhat different than I
19 think the other panels' perspective. As the chairman
20 acknowledged, new capacity markets have emerged that did not
21 exist before your Order 2003. They have created a potential
22 conflict with the current queue procedures. That is the
23 issue that is being dealt with now in New England.

24 We had a broad stakeholder processes, as you
25 know, that came up with the forward capacity market that was

1 approved by this Commission. We have been very encouraged
2 by the enthusiastic response to the forward capacity
3 market's new generators and demand response providers. They
4 have submitted qualified offers to provide more than 6500
5 megawatts of new capacity for this February auction, which
6 is the first auction under the forward capacity market.

7 This uniquely competitive capacity market offers
8 a long-term prospect for reliable new capacity when and
9 where it is needed. Nevertheless state regulators and
10 others within the region remain concerned that the
11 interconnection queue in its present form can disqualify
12 efficient low-cost generators from participating in the
13 forward capacity market, thereby undermining the central
14 objective of a fully competitive market for new resources.

15 Under ISO New England current rules new
16 generators with a lower queue position can be excluded
17 automatically from the forward capacity market if their
18 interconnection would overlap impermissibly with a higher
19 queued new generator. As the Commission concluded in
20 response to the Connecticut DPUC and NECPUC protest, this
21 arrangement is far from ideal.

22 The New England regulators, ISO New England and
23 other stakeholders are currently involved in a process where
24 we're looking at harmonizing the forward capacity marketing
25 and the queue. We have agreed to a timetable for an ISO New

1 England filing by October 1st, 2008.

2 Steve Rourke from ISO New England -- who is on
3 your fourth panel -- and another supply representative co-
4 chaired this special stakeholder committee charged with
5 developing any necessary rules to improve the ability of new
6 generators to compete in the forward capacity market. We've
7 already held five meetings devoted to a comprehensive review
8 of current SPM and queue rules, exploration of potential
9 approaches to eliminating conflicts, and development of
10 fundamental principles that will guide our further efforts.

11 The Connecticut DPUC has devoted substantial
12 effort to devising a fair transparent mechanism that will
13 permit new generators to compete directly to allocate scarce
14 interconnection space to the most efficient least-cost
15 resources. Under the Connecticut proposal if there are
16 multiple requests for limited interconnection the forward
17 capacity market's descending clock option will continue in a
18 sub-auction to determine which resource values that
19 interconnection the most and therefore should receive
20 priority regardless of the queue position.

21 This proposal is still at an early stage,
22 however. And other stakeholders have offered constructive
23 and insightful suggestions and comments.

24 We had a very good dialogue at our last meeting
25 where we got a lot of feedback on that proposal. We are

1 also in the process of identifying guiding principles for
2 integrating the queue with the forward capacity market.

3 The Connecticut DPUC has proposed the following
4 key points. Any changes to the queue process should be
5 consistent with the forward capacity market settlement. The
6 interconnection priorities should be allocated on the basis
7 of efficiency and lowest overall system cost. Forward
8 capacity market qualification procedures and interconnection
9 request procedures should be coordinated and streamlined.

10 When resources have overlapping interconnection
11 impacts competition should determine the most efficient use
12 of that interconnection space. Resources with long lead
13 times should not be disadvantaged by the forward capacity
14 market and interconnection rules and should be able to
15 compete with shorter lead time resources for scarce
16 interconnection rights provided that they maintain their
17 critical path schedule.

18 In addition, NECPUC has indicated that it will
19 work with regional stakeholders to consider whether existing
20 queue resources that are displaced by more efficient, lower
21 queue projects should be permitted to recover certain
22 incurred out-of-pocket costs related to obtaining and
23 holding their queue position.

24 Finally, as the Commission stated in its notice,
25 the unprecedented levels of renewable generation seeking

1 interconnection has raised unique queue-related challenges
2 that are particularly important for the New England states
3 where five out of the six states have RPS standards in
4 place.

5 In Connecticut we have a 20 percent requirement
6 by 2020 for the most pure renewable projects. Many of these
7 potential projects are relatively small and locally
8 constrained generation. And the present process does not
9 promote their economical access to transmission.

10 Although we haven't addressed any specific
11 proposals for meeting these RPS requirements, we urge the
12 Commission to address these concerns in any of the changes
13 you make to the interconnection queue rules.

14 With that I will wrap up and thank you for this
15 opportunity this morning. I look forward to our further
16 dialogue.

17 CHAIRMAN KELLIHER: Thank you, Commissioner
18 George.

19 I would like to now recognize Mr. Jerry Lein,
20 Public Utility Analyst with the North Dakota Public Service
21 Commission

22 Welcome.

23 MR. LEIN: Thank you, Mr. Chairman,
24 Commissioners.

25 North Dakota has made it a top priority to

1 develop the wind resources and other energy resources that
2 we have. Actually, North Dakota is ranked number one in
3 wind energy potential. Studies have shown that North Dakota
4 wind could actually supply 36 percent of U.S. electric
5 energy consumption. So far as we have about 185 megawatts
6 of installed capacity and we have 330 more megawatts under
7 construction hopefully by the end of the year.

8 We have other energy. We have hydro power. We
9 have a 500 megawatt Garrison diversion project and we have
10 lignite coal. We have about 4000 megawatts of installed
11 capacity that's mostly mine-mouth generation with
12 transmission lines east. We have about a 300 year supply of
13 lignite coal at our present consumption rates.

14 Interestingly, one thing that makes North Dakota
15 a good place to live is that we meet all of the federal
16 ambient air quality standards in spite of having all that
17 generation. We have worked hard and cleaned it up with
18 scrubbers. And we would like to develop more coal
19 generation as well.

20 I supplied a map showing the wind resources in
21 North Dakota. We have some areas with class five and class
22 six, even, areas. And we can reach 40 to 45 percent
23 capacity factors with our wind generation.

24 I provided another map that shows that the wind
25 that we have is strong in the regional generally. South

1 Dakota is ranked number four for potential wind generation.
2 And actually the upper Great Plains states in general have
3 just a tremendous wind resource.

4 If you contrast that to the population areas in
5 the eastern part of the state -- or the country, there's not
6 so much wind there.

7 Our problem, though, is that we're having some
8 trouble getting interconnected. The developers are ready to
9 invest now. MISO is estimating that many years will be
10 needed to obtain interconnections.

11 We have regional transmission constraints and the
12 failed queue process. Most of our new and existing wind
13 interconnections have been with non-MISO participants.
14 Western Area Power Administration, Basin's integrated system
15 is quite a bit of it. And we're getting some
16 interconnections with Dakota Electric Cooperative as well.
17 But these opportunities were like low hanging fruit, pretty
18 much. And they're about getting used up.

19 MISO's queue is just overwhelmed with wind
20 interconnection requests from our region. Minnesota has
21 26,827 megawatts in the queue. South Dakota has 11,000-some
22 and North Dakota has 8000-some. There's not enough regional
23 load or transmission capability to accommodate the
24 interconnection requests.

25 There's a stability constraint between the

1 Dakotas and Minnesota that needs to be overcome. There's
2 further constraints between Minnesota and points east.
3 Minnesota is not able to take all this power either. We
4 need to maintain our minimum base load generation levels.

5 I'd like to offer support for the Midwest ISO
6 queue process working group. We've been monitoring that
7 group. And just briefly, primarily, the first in-first out
8 needs to change. We've talked to the group about a
9 milestone-based -- maybe even in phases -- moving through
10 the queue.

11 I'd also like to support the open season
12 proposal, which recognizes the need for new transmission.
13 There's some more work there that needs to be done for cost
14 allocations and so forth.

15 As a possible solution, there is an MTEP
16 visionary study out -- Midwest ISO Transmission Expansion
17 Plan -- with a proposal or a vision of a 765 kV transmission
18 system overlaying the transmission grid to take power from
19 the Great Plains and take it to the East Coast. Funding and
20 siting of such a large interstate, inter-RTO project might
21 be difficult. Maybe we could get some federal assistance
22 there. I'm talking maybe something along the lines of the
23 Path 15 example.

24 I have provided a map of the final skeleton
25 overlay taken from the MTEP 08 draft that's been in

1 production right now.

2 And in conclusion, I think that the stakeholder
3 process that the Midwest ISO has is the best for going
4 forward with finding a good solution to the queue problems.
5 But in the long term we need significant new transmission.

6 CHAIRMAN KELLIHER: Thank you very much, Jerry.

7 I'd like to now recognize Mr. Laurence Chaset,
8 senior counsel at the California Public Utilities
9 Commission.

10 MR. CHASET: Thank you.

11 On behalf of the California Public Utilities
12 Commission I want to thank your Commission for providing
13 this opportunity to address the timely and important topic
14 of interconnection queue management.

15 My remarks today will focus on two points. The
16 CPUC is very concerned that the current queue management
17 process will adversely affect our state's RPS goals. These
18 goal can only be reached if large amounts of new renewable
19 generation can be interconnected to our transmission grid.

20 Two, on a positive note, the key transmission
21 stakeholders in California, including our Commission, the
22 California ISO and our utilities, have been working toward
23 the goal of alleviating the congestion we've been
24 experiencing in managing our queue.

25 As to the first point, I'd like to convey the

1 message that we in California are united in our commitment
2 to interconnect new generation facilities, especially
3 facilities relying on renewable resources, as quickly as
4 possible. Such interconnection is critical for the
5 achievement of the State's energy policy goals -- in
6 particular our renewable portfolio standard.

7 As you are undoubtedly aware, under current
8 California law 20 percent of the energy used by Californians
9 used by the end of 2010 is to be provided by renewable
10 resources. Moreover, it's the State's policy that 33
11 percent of our energy is to be provided by renewables by
12 2020. These very ambitious goals can only be met if large
13 amounts of new renewable generation -- primarily in-state
14 but also in neighboring states -- can be interconnected to
15 the grid.

16 However the current model of interconnection
17 queue management, which relies on the first come-first
18 served approach, is undermining our collaborative efforts to
19 move towards compliance with the State's RPS goals and
20 seriously impeding the ability of the California ISO and its
21 participating transmission owners to carry out their
22 existing responsibilities under Order Number 2003 in an
23 effective and efficient manner.

24 To put this problem into a factual context, there
25 area bout 70,000 megawatts of interconnection requests in

1 the California ISO's queue. Over half of this represents
2 renewable generation.

3 I want to briefly mention just two of the
4 obstacles to interconnecting new generation that are caused
5 by the current queuing process.

6 First, under the current rules there is a
7 disproportionate allocation of the cost of the transmission
8 upgrades needed to interconnect new generation to only a
9 handful of the many prospective generators in the queue.
10 Such inequitable cost allocations are typically predicated
11 on nothing more than the fickle finger of queue position.

12 Thus, Generator A proposes to build a 300
13 megawatt wind facility but would have to pay tens of
14 millions of dollars or more up front and immediately to
15 interconnect, whereas the neighboring Generator B, who has a
16 lower queue position, will be able to take advantage of the
17 upgrades paid for up front by Generator A to interconnect
18 for a small fraction of the dollars that his or her
19 competitor will be obligated to pay on an up-front basis.

20 The second problem derives from the first
21 problem. Generator A, seeing these huge up-front costs, can
22 easily and without penalty withdraw from the queue, thereby
23 withdrawing its large initial upgrade network costs onto the
24 next generator down the queue in the same electrical zone.

25 In our view the rules encourage perpetual

1 uncertainty and a game of tag-you're-it on generators whose
2 facilities may ultimately be beneficial and desirable
3 additions to the electric system. This game makes it harder
4 to allocate costs and often triggers expensive and
5 unnecessary restudies after an entity who has been tagged
6 decides to withdraw from the queue in order to let some
7 other entity bear the upgrade costs associated with a given
8 queue position.

9 The other main point I want to make today is that
10 we in California have been working hard to develop a
11 solution to resolve the current problems we're having in
12 managing the interconnection queue. This proposed solution
13 has two components: A, a backward-looking solution to
14 address the current backlog in the queue, and, B, a forward-
15 looking solution that would provide an alternative
16 methodology for conducting interconnection studies in the
17 future.

18 Under the backward-looking solution the CISO and
19 its transmission owners would seek authorization to manage
20 the current queue in a manner different from the approach
21 set forth in FERC's large generator interconnection
22 procedures. T

23 he backward-looking solution would alleviate the
24 backlog in the current queue as efficiently and quickly as
25 possible without compromising the interests of prospective

1 generators seeking interconnection by establishing a set of
2 groups for interconnection study based on the geographic
3 location and commonality of the electrical impact. All
4 interconnection requests in a given group will be studied
5 together rather than in a sequence based on queue position.

6 The proposed forward-looking solution would
7 typically rely on procedures different from those in the
8 CISO's current tariff that will be implemented by means of a
9 proposed tariff position. This solution will replace the
10 current process of addressing interconnection requests
11 serially based on queue position with an approach based on
12 the use of cluster windows combined in a more efficient
13 process for weeding out non-viable projects.

14 All interconnection requests that fall within a
15 given cluster window would be studied during the period
16 beginning after that cluster window closes.

17 Importantly, both backward- and forward-looking
18 processes will be synchronized with the transmission
19 planning process that we are developing in California in
20 response to your Order 890 as well as with the state-
21 initiated ready process, which is intended to identify new
22 renewable energy development opportunities through an open
23 multi-stakeholder study process.

24 We look forward to FERC's favorable consideration
25 of these creative proposals that we are developing.

1 And I thank you very much for your attention
2 today.

3 CHAIRMAN KELLIHER: Thank you very much.

4 I want to thank all the panelists for their
5 statements.

6 Let me turn to my colleagues.

7 Commissioner Kelly.

8 COMMISSIONER KELLY: I have a question for
9 Chairman Binz and Mr. Chaset.

10 In Texas there are competitive renewable energy
11 resource zones. I understand that the western governors are
12 considering something along those lines.

13 Do you anticipate much support for something like
14 that? And would that help solve the queue management
15 process?

16 CHAIRMAN BINZ: Commissioner Kelly, I have some
17 news for you. The Colorado legislature actually adopted
18 legislation this past session sort of comparable to the
19 Texas legislation. We now have renewable energy zones in
20 Colorado which have been identified. The report of the
21 study group has just recently been forwarded to this
22 Commission so we'll be looking at that.

23 I think that it will at least narrow
24 geographically the focus, allowing us to sort of make
25 rational clusters in those geographies. So I think that

1 will improve things, yes.

2 MR. CHASET: In the written comments that I
3 submitted the other day there's a two-page appendix that
4 summarizes our renewable transmission initiative. You know,
5 we have pretty much everyone at the table in California
6 working toward the goal of identifying projects in
7 California and nearby California. We are hopeful that this
8 process will come up with a specific set of identified
9 resources. At some point next year that process will
10 hopefully be integrated into CISO's transmission planning
11 process under Order 890.

12 Hopefully also this backward-looking queue
13 management proposal that we're going to be submitting to you
14 hopefully soon will also be able to synchronize with that.
15 There are going to be a lot of folks in the queue who will
16 hopefully also be in the identified CREZ and be able to
17 identify specific plans of service to interconnect
18 significant new generation.

19 Our hope at least at this PEC is that these three
20 processes can work in a synchronized and harmonious fashion
21 to accomplish the goal of interconnecting large amounts of
22 new renewable resources. That's going to mean new
23 transmission.

24 So I hope that answers your question.

25 COMMISSIONER KELLY: Yes, it does. Thank you.

1 One thing that I take away from this panel, I
2 believe -- and I'd like you to correct me if I'm wrong -- is
3 that everyone here I think has said that first come-first
4 served is no longer the only consideration that we should
5 take into account in managing our queue process.

6 Does anybody disagree with that?

7 CHAIRMAN NORRIS: I don't disagree. I just say
8 the first come-first served to me is based on the assumption
9 that they're all equal coming in. And they are so disparate
10 there has to be some process for treating them based on
11 their characteristics -- not just first in line.

12 COMMISSIONER KELLY: Chairman Norris, I did like
13 your characterization that if we're going to treat the
14 entities in the queue without discrimination we should be
15 looking at other things rather than first come-first served
16 because that discriminates.

17 CHAIRMAN NORRIS: Yes. I mean I think it's
18 important to continue to recognize that anybody who's a
19 transmission owner and a generation owner -- not everybody
20 who's a transmission owner or a generation owner unfairly
21 discriminates. However this isn't helping anyone else in
22 this first-in and first-out category. And it's actually
23 creating an unjust situation.

24 COMMISSIONER KELLY: Thank you.

25 CHAIRMAN BINZ: Commissioner Kelly, I didn't get

1 to say this as explicitly as I might have in my comments. I
2 think there needs to be in the case of states which have
3 resource planning processes some ability of those states and
4 those projects to jump the queue and get considered as a
5 package at a higher point in the queue.

6 It's simply irrational for a state to go through
7 a resource planning process only to have the queue process
8 slow down the implementation of a resource plan which the
9 Commission and the states typically spend a year or two
10 developing.

11 COMMISSIONER KELLY: I also wanted to raise a
12 process question.

13 CHAIRMAN KELLIHER: We should have I think seven-
14 minute rounds. In seven minutes it will get us to eleven
15 o'clock.

16 COMMISSIONER KELLY: Will you tell me, Ray, when
17 my time is up?

18 CHAIRMAN KELLIHER: Take five more minutes, I
19 would suggest.

20 COMMISSIONER KELLY: Let's see. What was my
21 question.

22 CHAIRMAN KELLIHER: Sorry to throw off your
23 questioning.

24 COMMISSIONER KELLY: I know it was a brilliant
25 question.

1 (Laughter.)

2 COMMISSIONER KELLY: I'm going to pass the gavel
3 to you, Joe, with the caveat that as soon as I can remember
4 it--

5 CHAIRMAN KELLIHER: You will have five minutes
6 remaining. It will be great, too. I may not use all my
7 time.

8 If so, Staff, you get to use whatever I don't
9 use. So think of really good questions -- better than I can
10 ask.

11 But I want to follow up with Laurence.

12 You referred to a more efficient method for
13 weeding out non-viable projects. There's a general interest
14 in that among the panelists. But what is that more
15 efficient method? Is it simply higher deposits or is it the
16 staff launching some different indicators of progress that if
17 not met someone goes to the back of the queue?

18 MR. CHASET: For example, site control is very
19 important. One of the things we would want to see is an
20 earlier commitment to site control.

21 If someone just has a project they plunk down
22 \$10,000 and they reserve a queue position. That creates
23 some serious obstacles for folks who come along who may have
24 a more viable project. We are going to try to work out with
25 our stakeholders what the specific indicators will be.

1 You'll hear from the California ISO this
2 afternoon and they will give you some more detail on what
3 they're thinking about. But my sense is that we will
4 initiate a stakeholder process very soon.

5 We're going to try to come up with a set of
6 stricter requirements for folks once they're in the
7 interconnection queue. Then we're going to hold them to it.
8 And higher deposits are probably one of the elements that
9 will be in there.

10 But just keep in mind-- and this goes back to the
11 question that Commissioner Kelly asked a minute ago -- cost
12 allocation is a big potential problem because if -- we've
13 got 40,000 megawatts of renewables in our queue. We've
14 identified specific areas where there needs to be developed.
15 If we build transmission on a queue position by queue
16 position basis it's not systematic; it's not efficient. And
17 the costs get allocated in an unfair manner.

18 If there are 3000 megawatts of wind generators
19 out there we don't want the one generator who triggers the
20 necessary upgrade with the large costs of the up-front
21 transmission expansion. And we would be hopeful that the
22 process we come up with will allow an even distribution of
23 the costs of interconnection among all of the generation
24 that would benefit from it.

25 And there is, as there was at the Tehachapi

1 region, the possibility of up-front funding by the
2 utilities. I believe you'll hear from one of our utilities
3 this afternoon that is something that's being explored.

4 Certainly our commission has been supportive of
5 utility up-front funding of these large projects to access
6 large quantities of new generation. So that's one of the
7 possible ways to alleviate cost allocation problems.

8 CHAIRMAN KELLIHER: I certainly agree with the
9 goal of weeding out phantom projects. But I think we have
10 to be careful in that we don't come up with indicia that are
11 facially neutral but will actually tend to favor the utility
12 project rather than the new entrant.

13 Something like site control appears to be
14 facially neutral. But the utilities have an advantage in
15 terms of site control and wind developers.

16 MR. CHASET: I take your point, Chairman
17 Kelliher.

18 But in California most of the generation in our
19 queue is independent generation. And we've been very
20 supportive of the development of lots of new independent
21 generation. We have a resource adequacy program which
22 requires our utility to put out requests for proposal. Most
23 of the responses to those requests for proposal is coming
24 from independent entities.

25 I think in California, at least, the concern that

1 it would favor utility-based projects is not likely to
2 happen.

3 CHAIRMAN KELLIHER: I just want to ask my
4 colleagues about that, too. There's a lot of concern about
5 first come-first served.

6 There was -- I remember from my school days that
7 there was a certain fairness associated with that. Cutters
8 were not favored very much. But I can see how it may not be
9 perfect in this scenario. But we don't want it to be like
10 Studio 54, too, where someone is chosen on a completely
11 arbitrary basis -- on clothing or appearance -- and how they
12 get to the front of the line, too.

13 I just wonder -- I can see conceptually different
14 indicia, perhaps. But what are those? I just want to ask
15 my colleague, which would be the Commissioners, if -- what
16 is the alternative to first come-first served?

17 Is there something that can be concrete and
18 developed? And you're looking at it in New England, really,
19 with an eye toward capacity markets. Are you choosing -- it
20 could be that first come-first served is fine. But if
21 you're chosen in the capacity market then you just on that
22 single basis.

23 Ron might have been suggesting if you are chosen
24 through some kind of independent resource planning, first
25 come-first served is fine and you jump on that basis. A

1 modification to first come-first served is what we're
2 looking for and not a complete alternative?

3 COMMISSIONER GEORGE: Speaking for New England, I
4 think it is probably just a modification.

5 We don't want to get into a situation where
6 obviously somebody's sitting there and they're meeting their
7 milestones but still not really going to be there when we
8 need them.

9 In New England in looking at the resources that
10 are potentially going to bid into the capacity market and
11 figuring out is someone going to be sitting there in a
12 higher queue position that could require the automatic
13 disqualification of another resource from even bidding.
14 That's the way the current rules are established right now.
15 If there's an overlapping interconnection impact with regard
16 to two resources, the higher queued pretty much blocks out a
17 lower queued.

18 We're looking at some other way to decide which
19 one of those projects gets to continue forward, whether it's
20 done through a sub-auction and they compete for that space,
21 whether it's through a bilateral contract where they work
22 out some payment arrangement for the higher queued resources
23 recovering out of pocket expenses, something like that --
24 but some other mechanism so that you don't have situations
25 where just because someone came into the queue first they're

1 able to block out a nearby resource.

2 CHAIRMAN KELLIHER: Let me ask another question,
3 a related question.

4 If someone isn't making progress should the
5 consequence be that someone can jump them, or do they go to
6 the end of the queue if they're not making progress? What
7 do you think is the right consequence for failing to make
8 progress and meet certain indicia? Is it that someone can
9 jump you or do you go to the back of the line?

10 MR. CHASET: My sense is that if we're going to
11 do this in the future in chunks we'll have six-month chunks
12 or one-year chunks. The queue closes at the end of a
13 specified period of time and we look at everyone in there.
14 If you fail to meet the criteria for some reason you drop
15 out of that study group. But you can reapply and be in the
16 next chunk.

17 So my sense is that generators who fall short
18 don't go to the end of the line. They may be at the front
19 of the next line.

20 CHAIRMAN KELLIHER: Thank you very much.
21 Colleagues?

22 Can we go back to Commissioner Kelly?

23 COMMISSIONER KELLY: I remembered my question.
24 Thank you, Joe. It's a process question.

25 We're talking about some sort of reforms here to

1 the queue management process. So the question comes up how
2 would these reforms be implemented. To the extent you've
3 thought about it, I'd like to hear your thinking.

4 If it's a reform that isn't dealt with in the
5 tariff then it could just be implemented because it wouldn't
6 be contrary to the tariff as long as it's consistent with
7 tariff language. If it's a reform that's a deviation from
8 the tariff then the question is how do you do it. You could
9 come in RTOs or transmission providers could come in for a
10 waiver or could come in for a one-time fix to the tariff
11 under Section 205. Then at the other end of the spectrum is
12 a rulemaking.

13 My initial thinking is that a rulemaking is
14 probably not where we want to go, at least not initially,
15 for a couple of reasons. One, the one-time fixes or the
16 waivers will be faster. And, two, it seems that we have
17 different kinds of issues in different areas of the country.

18 Although we may be able to get some sort of
19 overarching concept that would cover it in a rule, it may be
20 easier and more efficient to handle it on a region by region
21 or transmission provider by transmission provider basis.

22 I was wondering have you thought about this? Do
23 you have an opinion?

24 COMMISSIONER GEORGE: I would agree with you,
25 Commissioner Kelly, that because of the differences in these

1 issues in the particular regions I think that dealing with a
2 waiver would be a better approach at least from the New
3 England standpoint because we do have unique issues that
4 other regions don't see. So that seems to be the most
5 appropriate avenue to take.

6 CHAIRMAN NORRIS: I'd second that. I think
7 rulemaking is not the place to start. A waiver would allow
8 -- MISO I know is focusing on trying to resolve this. Let
9 the individual RTOs and ISOs come up with creative solutions
10 and see where that gets us first.

11 COMMISSIONER KELLY: Thank you.

12 MR. CHASET: Your Commission kindly approved a
13 waiver for the Tehachapi cluster. That's working very well.

14 We expect that there will be a tariff revision
15 that will be filed, hopefully before too long in the New
16 Year. Whether we deal with a backward solution to the
17 tariff revision or waiver hasn't been decided yet. You
18 might want to ask CISO this afternoon. But I would second
19 what everyone else is saying.

20 COMMISSIONER KELLY: Thanks.

21 CHAIRMAN BINZ: I'll join that.

22 I think our concern is that a rule might
23 inadvertently paper over the differences between the regions
24 that a waiver process would be able to handle. And I cited
25 to a waiver of sorts in the Excel Energy. As long as you're

1 singing an order coming out of this process what you're
2 receptive to, I realize, it's akin to rulemaking. But if
3 you can signal that I think that would be very helpful.

4 COMMISSIONER KELLY: Thank you.

5 CHAIRMAN KELLIHER: Colleagues? Jon?

6 COMMISSIONER WELLINGHOFF: Thank you, Mr.
7 Chairman.

8 I again want to thank all the panelists. To the
9 extent you have prepared remarks in a format that you could
10 send them to me electronically, I would appreciate that very
11 much. I don't think I've got everybody's, but I would
12 really like to have copies of everybody's remarks. That
13 would be great.

14 With respect to Chairman Norris's discussion on
15 this issue of discrimination, I have to agree that we can in
16 fact be in a situation of not engaging in undue
17 discrimination but still treat different resources
18 differently by their characteristics. I've said that for a
19 long time. And I would endorse that with respect to this
20 particular process.

21 Moving this process forward I think we have to
22 consider whether or not, for example, a resource has in fact
23 qualified under a state integrated resource planning
24 process, whether in fact that resource has site control and
25 these other indicia.

1 I think we also agree that the issue of
2 clustering is one we ought to look at. But certainly, you
3 know, as you said, Chairman Norris, it's not the full
4 solution. We have to look at these other indicia.

5 I would like to ask some questions of
6 Commissioner George.

7 I was very interested in the principles you were
8 laying out in respect to how to differentiate between some
9 of these different projects and how they might be treated
10 differently. Were these principles developed by the
11 Connecticut Commission?

12 COMMISSIONER GEORGE: Yes.

13 COMMISSIONER WELLINGHOFF: I think one of them
14 you said is allocation based upon efficiency.

15 COMMISSIONER GEORGE: Yes.

16 COMMISSIONER WELLINGHOFF: How would you deal
17 with that?

18 COMMISSIONER GEORGE: If there is a scarce
19 interconnection space and you have two resources, one of
20 which has been in the forward capacity market, neither one
21 of them would be disqualified based on where they are in the
22 queue. They would continue on and they would bid into the
23 forward capacity markets through the descending clock
24 auction they would stay in.

25 Let's say they got down to the declaring price --

1 \$7. Then if they're both still in at the declaring price
2 they continue in a cell auction where they would actually
3 decide. The clock would still be ticking down and they
4 would decide how much they value that interconnection space.
5 Whoever ends up staying in the longest would determine that
6 that resource is the one that goes forward.

7 Now the delta between the declaring price and
8 what they are actually willing to be in for, we're still
9 developing how this would all operate. We could take that
10 delta and use those funds to compensate the resources that
11 didn't stay in for any out of pocket expenses.

12 That way it's a way to get the resources to
13 actually compete against each other for the scarce
14 interconnection space. Instead of trying to figure out,
15 administratively maybe, which one makes the most sense, you
16 actually get them to compete against each other.

17 There's also been some discussion about getting
18 them provisional qualification before you get to the actual
19 bidding for the auction. Then any resources that are both
20 trying to fill in the same area with the same
21 interconnection spot would in turn see if they have interest
22 in any bilateral agreements to determine if one pays the
23 other to back off.

24 We're struggling with the mechanisms of how we
25 would allocate those scarce interconnection spaces. But

1 those are some of the ideas that we're tossing around.

2 COMMISSIONER WELLINGHOFF: You're in essence
3 talking about economic efficiency. There would be a sub-
4 auction bidding process.

5 Have you looked at operational efficiency in any
6 way? In other words, there might be some independent 'I
7 want to go to Chairman Binz.'

8 I have to get used to saying 'Chairman Binz,'
9 Ron. That's a great thing to say.

10 CHAIRMAN BINZ: Touch, Commissioner Wellinghoff.

11 COMMISSIONER WELLINGHOFF: I'm going to go to Ron
12 in a minute.

13 But if you looked at another efficiency measure,
14 which might be operational efficiency where you do load flow
15 studies or other studies that would determine which of the
16 two resources based upon their operating characteristics and
17 maybe characteristics of their generation resource might be
18 better for the system, that might have an effect upon where
19 they would be in the queue.

20 COMMISSIONER GEORGE: You know, I know -- and ISO
21 New England will be up here later today -- I know part of
22 their analysis that they do during the show of interest for
23 the new resources. They do look at all of the different
24 areas. I'm not sure if they then determine which one is
25 operationally the most efficient resource.

1 It's a good question. Actually I don't know the
2 answer. But that is something that should be taken into
3 account, I would think, instead of just completing focusing
4 on economic efficiency.

5 COMMISSIONER WELLINGHOFF: And you would think it
6 might be something that would affect your queue standing if
7 you were more efficient.

8 Going to you, Ron, and talking about IRP, that's
9 really in essence what IRP is supposed to do. Maybe you can
10 elaborate on that.

11 CHAIRMAN BINZ: Well, John, as a set-up, I just
12 want to reiterate Colorado just rewrote its resource
13 planning rules. We had, as many states had, migrated over
14 time to what became known as least-cost planning where
15 basically short-term costs or first-in costs and short-term
16 costs were given precedence over any other things which we
17 know call externalities. We rewrote our rules to bring in
18 the externalities that climate change is bringing to the
19 table.

20 So we now have a process which is more like the
21 IRP, although not as much command and control. There's
22 plenty of room still, I think, for competition within that.

23 In the event, we're going to come out some time
24 next year for Excel Energy, which is the state's largest
25 electric utility, with an approved resource plan. In my

1 view -- I used the word earlier -- it's irrational for us
2 then to be hostage in any sense to when these projects got
3 in the queue. Some of these projects will be projects whose
4 technology is changing rapidly. I'll use concentrating
5 solar as the example.

6 In the two years that our resource planning
7 process will run the technology will evolve significantly
8 for those resources. So their ability to get in a queue two
9 years ahead of the time at which their technology is ripe is
10 probably not something we should expect them to do. It
11 would be our preference to the point that when Colorado
12 issues its resource selection in the IRP that somehow that
13 set of projects as a package be given precedence for the
14 studies that have to be done for transmission.

15 COMMISSIONER WELLINGHOFF: Thank you, Ron.

16 Thank you, Mr. Chairman.

17 CHAIRMAN KELLIHER: I'd like to recognize
18 Commisario Spitzer.

19 COMMISSIONER SPITZER: There's been quite a bit
20 of discussion and some unanimity on the panel on the first
21 in-first time issues. Certainly the Tehachapi order alluded
22 to by Mr. Chaset stands for the proposition that the
23 interconnection regime for wind sources ought to be
24 different than the combined cycle. And there are certain
25 distinctions. The concept is related. That's the temporal

1 equity issue.

2 On the other hand, you have in terms of weeding
3 out of phantom projects what I might describe as a balance
4 sheet issue where you have some projects where you have the
5 developer with a balance sheet able to finance and then some
6 purely dependent upon non-balance sheet financing.

7 Certainly if you quintuple an application fee to
8 weed out certain projects the burden might fall more on the
9 non-balance sheet projects. That doesn't mean that they're
10 viable. I think some of the language was weeding out non-
11 viable projects.

12 There seems to me a degree of unfairness with
13 regard to balance sheet versus non-balance sheet projects.

14 In some of the papers we've seen the discussion -
15 - I heard mentioned what has traditionally been used in the
16 gas area. In the gas area there are certain projects that
17 are financed through balance sheet and off-balance sheet and
18 the open season has a long history of being proved as non-
19 discriminatory under both state and federal law.

20 So who wants to take the first shot at describing
21 the open season prospect of dealing with means of weeding
22 out the non-viable projects without discriminating based on
23 the financial arrangements for the developer?

24 MR. CHASET: I'll admit that this is an area that
25 I'm not an expert in.

1 But let me say that the notion of an open season
2 or something like it will hopefully be incorporated into the
3 California ISO's order 890 transmission planning process so
4 that each year there's going to be projects for new
5 transmission or generators will be able to say, 'Well, we
6 think we need this new kind of new transmission' that we'd
7 put on the table.

8 I believe on Thursday the CISO board is approving
9 some tariff provisions that will be submitted to you pretty
10 quickly. But there will be something like an open season
11 approach in terms of transmission planning.

12 Let me emphasize the point that at least for us
13 in California fixing the queue looking at interconnection
14 requests in groups and what's going to be happening under
15 Order 890 systematic transmission planning is also going to
16 be informed by this renewable initiative and will hopefully
17 address the problem that you're concerned about. We'll make
18 sure there is no discrimination because anybody who's really
19 got something they want considered will be able to bring it
20 into the planning process that's going to be open and non-
21 discriminatory and multi-stakeholder.

22 I hope that begins to answer you.

23 COMMISSIONER SPITZER: Are you saying that the
24 planning process is an ersatz open season?

25 MR. CHASET: It's a de facto open season, yes.

1 CHAIRMAN BINZ: Commissioner Spitzer, I was going
2 to go back to the conversation I was having with
3 Commissioner Kelly earlier about renewable energy zones.
4 That's a type of open season in itself. On a regional basis
5 you get the simultaneous announcement of all the projects in
6 that region that are likely to go forward. It doesn't have
7 the characteristics of having these proved up economics of
8 the projects.

9 But let's also recognize that even if we had a
10 CREZ type process in Colorado they're still as a group
11 subject to the queuing process. That's another type of
12 accommodation you may want to make, even if you don't go all
13 the way: an open season type approach.

14 COMMISSIONER SPITZER: The other types of
15 approaches are the economic approaches of increasing this
16 type of project or this milestone process. It would seem to
17 me you could have some serious disagreements in terms of the
18 amounts.

19 How do you prove you're a viable project,
20 particularly when we hear from the developers that there's a
21 chicken and egg. You know, they want transmission before
22 they write the check to finance but can't get the
23 transmission.

24 So how -- it's like dealing with any bank: You
25 have to prove you don't need the money.

1 (Laughter.)

2 CHAIRMAN BINZ: It occurs to me that we ought to
3 at least look at what the costs of the studies are when
4 setting the down payment.

5 One of the things you see is that for \$10,000
6 somebody gets in, only to be faced with the fact a couple of
7 years down the road that they owe \$100,000 for the studies
8 they've caused to happen. I don't know that anybody's done
9 this, to actually look at what the sort of average median
10 cost of studies is and used that to inform what the holding
11 fee ought to be.

12 COMMISSIONER SPITZER: What Mr. Chaset was saying
13 was that if it's through a governmental or quasi -
14 governmental process that may be enough of a certainty of
15 receipt of transmission to permit the financial arrangements
16 to be put in place. That's what I'm hearing.

17 I heard this in my state job and now at the
18 federal level. The uncertainties are what is hampering
19 financing of what I think people would agree to be viable
20 projects, even if they're not balance sheet projects.

21 What ways can you all in your various
22 jurisdictions ascertain? Do you have a great degree of
23 comfort in ascertaining the milestones if that were to be a
24 change that would be made in terms of weeding out these non-
25 viable projects?

1 CHAIRMAN NORRIS: Without going into the
2 specifics, weeding out the milestones is one way to
3 alleviate some of the cost considerations for people unable
4 to compete at that level. I think we can get the milestones
5 over.

6 COMMISSIONER SPITZER: What about the concern
7 that you have a property right here? Certainly if you have
8 a due process issue, are you confident that you can deal
9 with a due process issue without prejudging the question of
10 whether under state law you have a property right?

11 CHAIRMAN NORRIS: That's the right question. I'm
12 not sure.

13 I think we have to look at -- give some weight to
14 the short term, sort of what's the longevity of the projects
15 or the short-term projects which tend to be renewables. Do
16 they fare better in our milestone process? Is that fair?

17 There's a serious public policy question here
18 that we should try and answer to emphasize renewables and
19 low-carbon generation. But I think it's a legitimate public
20 policy answer that we should try to address.

21 COMMISSIONER SPITZER: Let me be very clear.

22 I did definitely read very carefully the letter
23 from the governors and the concerns I've heard through the
24 industry and the serious backlog of this issue. The concern
25 is it's very easy to say weed out non-viable projects, just

1 as a lot of folks and legislators want to get rid of waste,
2 fraud and abuse.

3 (Laughter.)

4 COMMISSIONER SPITZER: It's very hard when you
5 actually deal with somebody's specific appropriation getting
6 to that. And I do have the concern. I'm not sure it's a
7 legal matter if it's a federal or state issue.

8 The question whether a property right arises from
9 the position in the queue and if that position were to be
10 eliminated without any right to be heard what would be the
11 consequences. And then if you do have some due process
12 hearing does that unduly hamper the state process in
13 adjudicating the costs that you all are trying to achieve.

14 CHAIRMAN KELLIHER: Can I encourage extremely
15 short answers because I think your time has run out, and we
16 want to be fair to Commissioner Moeller.

17 MR. CHASET: Let me just say it's not clear that
18 there's a property right in a queue position. I think once
19 you've paid your money you have a right to be studied. The
20 question is when you're going to be studied.

21 If we've got 40,000 megawatts renewable energy
22 projects in the queue and we've got a peak load in the CISO
23 of 50,000 megawatts, not all those generators are going to
24 come on line right away. I don't think there's a serious
25 property right concern so long as once you've paid your

1 money you get studied at some point in the reasonably
2 foreseeable future.

3 CHAIRMAN KELLIHER: Very well.

4 Commissioner Moeller.

5 COMMISSIONER MOELLER: Specific to that, Mark --
6 I've been discussing with my advisors -- the key is that the
7 property right is tied to the project. So I mean you can't
8 claim the position in the queue is your right as property.
9 It's only when it's associated with the project you're
10 developing. So it's key, too, in terms of finding that
11 solution.

12 This afternoon we'll hear from Bonneville, who is
13 trying to put together a cluster approach where the
14 commitment from the developer, as I understand it, is to
15 have that project available at a certain time. The
16 commitment back from Bonneville is that they will have
17 access -- they will have guaranteed access to the Bonneville
18 grid.

19 But it kind of goes both ways. But it's not a
20 cure-all, again, as I understand, because you could still
21 have a developer back out even though they've made the
22 commitment further down the line. But it has had the effect
23 of getting some of the phantom projects out of the queue up
24 there.

25 I think we have a long afternoon of good

1 discussions on that.

2 John, I'm kind of curious, from your personal
3 perspective on this, knowing a little bit about Iowa, Iowa's
4 been a leader in wind energy both because of its natural
5 resources there but also because of kind of the philosophy
6 that the state has encouraged wind development. Part of it
7 is kind of a small-d democratic that there are a lot of
8 different owners of wind development projects in the state.
9 And obviously the utilities have some interest, too. But
10 they're seen as kind of the big guys as opposed to the
11 smaller types. And it seems like Iowa has a unique
12 challenge to try to kind of balance the interests of small
13 developers and large developers going forward.

14 I'd like your thoughts on that.

15 CHAIRMAN NORRIS: We actually like windmills in
16 Iowa.

17 COMMISSIONER MOELLER: I know.

18 CHAIRMAN NORRIS: We've spurred small wind
19 development. Those are under 20 megawatts. We're not
20 talking about the small generator in the interconnection
21 queue. It's a different rubric here.

22 But going forward it is a continued concern of
23 Iowa that smaller operations and independent investors get a
24 chance to enter this market.

25 I'm not sure I can answer your question very

1 directly how it's going to fit into this large energy queue.
2 But going forward we just want to make sure that everyone
3 has a chance to invest and compete in this industry. And
4 whatever we can do -- that's why I mentioned milestones may
5 be a better approach than to try to solve it with higher
6 fees. That kind of trade-off I think is important to
7 consider.

8 COMMISSIONER MOELLER: Potentially that
9 philosophy is a clash against making it harder to get into
10 the queue, whether through financial measures or others.

11 CHAIRMAN NORRIS: I agree.

12 COMMISSIONER MOELLER: Good luck to all of us on
13 that, I guess.

14 Jerry, I'm interested in your conclusion. You
15 mentioned you think that the Midwest ISO stakeholder process
16 is still the most appropriate forum. Do you think it's
17 moving quickly enough, though?

18 MR. LEIN: Commissioner Moeller, it started in
19 September, really, with our first kick-off meetings. We're
20 talking about tariff filings maybe in late spring here. And
21 I don't think all the problems will be solved with the
22 tariff filings.

23 But I think it's moving along. They're going
24 about as fast as they really can with giving the
25 stakeholders a chance to see what everybody's thinking and

1 look and see how it affects them. There's no other Midwest
2 ISO process with the stakeholder process. It works pretty
3 well for pretty much everything so far.

4 One of the big problems is that everything was
5 way too fast with way too much stuff going on. So it's hard
6 to keep up.

7 COMMISSIONER MOELLER: I'll be in Carmel tomorrow
8 night so I'm sure I'll be hearing -- I hope I will be
9 hearing a lot about it.

10 Mr. Chaset, as I mentioned briefly to you, I was
11 at the CPUC a week ago Friday. I was impressed with the
12 level of commitment to new transmission that I heard from
13 four of the five Commissioners. I think the ready process
14 is worth elaborating on a little bit more.

15 It's more of your going-forward approach was
16 opposed to clearing up the backlog. But again, it seems
17 like a model that maybe other regions will want to embrace
18 depending on where it goes. But it certainly sounded
19 promising.

20 MR. CHASET: Do you want just a quick thumbnail?

21 The ready process as currently constituted has
22 three phases. The first one is identifying and ranking the
23 competitive renewable energy zones. Hopefully that's going
24 to be done the summer of this year.

25 We have a consultant -- I believe a consultant is

1 on board -- that's going to work to do that.

2 Phase two is refining that analysis and
3 developing a state-wide conceptual transmission plan to
4 interconnect all these competitive resources. That's going
5 to take another eight months. So hopefully early 2009 that
6 will be done.

7 Based on that there will be detailed transmission
8 planning for the CREZs that are identified for development.
9 They'll be staged over time.

10 This is obviously going to have to be coordinated
11 carefully and closely with the CISO's transmission planning
12 efforts under Order 890. Hopefully some of this queue
13 rectification that we're going to be engaging in will
14 accommodate a lot of this. A lot of the folks in the queue
15 are renewables.

16 I hope that's helpful.

17 COMMISSIONER MOELLER: That's good.

18 Thank you, Mr. Chairman.

19 CHAIRMAN KELLIHER: Thank you.

20 I realize we're right spot on time. I'd like to
21 ask Staff if there are a couple of questions we should have
22 asked that we didn't ask that would help for you all to ask
23 now.

24 Ray? Mary?

25 MR. PALMER: I have one question, Mr. Chairman,

1 whi ch i s:

2 It would be great to hear from the state
3 representatives while there here, particularly in the states
4 that are involved in multi-state regional transmission
5 organizations, whether they see any differences or any
6 concerns and how to balance the interests of states that do
7 have renewable portfolio standards and those states that
8 don' t.

9 And a more general question in terms of are there
10 any different interests we should be aware of of states that
11 are net producers of renewable energy versus states that are
12 net consumers of renewable energy.

13 CHAIRMAN NORRIS: I' d just say we' ve got to be
14 hesitant. It' s going to be a transfer from states that have
15 a rich and real resource potential and states that want to
16 have lower carbon emissions. It' s important we resolve
17 this, I think, on a regional basis so we get a good flow of
18 renewable energy across state lines irrespective of who' s
19 producing it and who' s consuming it.

20 CHAIRMAN BINZ: Ray, as I was explaining to the
21 Chairman in his office before this meeting, Colorado has
22 probably between two and ten times as much renewable
23 capacity as it' s going to be able to use in-state.
24 Similarly, Wyoming and similarly New Mexico. We' re drooling
25 over the prospects of getting to the Phoenix and LA markets

1 with some of that power.

2 So we are starting with how the advantage or
3 disadvantage, depending where you sit, of a regional RT0,
4 we're beginning to work cooperatively to move those states
5 along together on multi-state projects. I think you'll see
6 some of that coming forward from utilities in our area,
7 which will put additional stress on the queue.

8 COMMISSIONER GEORGE: I would just say the
9 northern New England states are definitely the major
10 producers of the renewable energy and the southern states
11 are the consumers. Although we have individual RPS
12 requirements in five of the six states, we do operate very
13 pro-actively regionally to try to come up with solutions

14 As this Commission is probably well aware, we've
15 had some disagreements mainly on cost allocation for
16 transmission to move power around. But we do work well.
17 And with our ISO New England planning process the states
18 work well together because, as Chairman Norris indicated,
19 this is a regional issue and has to be dealt with
20 regionally.

21 MR. LEIN: North Dakota is a net exporting
22 producing state. As I said before, our problem is
23 transmission. That's the fix for us. We have that
24 stability limit between North Dakota and Minnesota and South
25 Dakota. There's a constraint there. The loads are east,

1 and east is Minnesota, too. So we need more than just
2 getting past that stability constraint.

3 MR. CHASET: We're a single state ISO, so I'll
4 pass.

5 (Laughter.)

6 CHAIRMAN KELLIHER: Great.

7 I wanted to thank the panelists for helping us
8 today. A very interesting discussion and one that should
9 continue.

10 Thank you for joining us today.

11 I'd like to ask panel two to come up.

12 (Pause.)

13 COMMISSIONER KELLY: Consistent with our
14 observation that this is a regional issue, we've organized
15 the rest of the panels regionally. Our first panel up is from
16 the Midwest.

17 I'm pleased to introduce Steve Kozey, vice
18 president and general counsel and secretary of the Midwest
19 ISO, Charles Hendrix, senior engineer, Southwest Power Pool,
20 Dean Gosselin, vice president, FPL Energy, Kris Zadlo -- is
21 Kris here? -- vice president Calpine for transmission, I
22 believe. That's Calpine Corporation. Don Furman, senior
23 vice president, PPM Energy. Rob Gramlich, policy director,
24 American Wind Energy.

25 Thank you all very much for being here. I think

1 we'll stick with the same ground rules. Be sure to turn
2 your mike on when you speak and take five minutes and let us
3 know your thoughts.

4 Steve.

5 MR. KOZEY: Thank you, Commissioner, and all of
6 you, for making time to do this. Fortunately, you've all
7 been well briefed by the Staff and you've heard the states.
8 Rather than repeat how much it's broken, I'm going to try to
9 focus on the path forward.

10 I took some pleasure -- a sad pleasure -- in
11 hearing that other parts of the country have problems too
12 because there are days when if seven governors send your
13 boss a letter and the state board process doesn't seem to be
14 moving fast enough, it seems that you may be the only place
15 that's not getting it right.

16 I do want to say we have a situation where we
17 think we're running the process we've got correctly. The
18 process isn't well designed for this. It's frustrating
19 every consumer segment and regulatory segment, developer
20 segment that we've got. We know that. We do take it
21 seriously. We do plan to file early spring. There's staff
22 behind me that has to do the real work. They'd love it if I
23 said June first. But that's why officers pressure staff.

24 We do, Commissioner Kelly, imagine the approach
25 of filing tariff sheets with language for you, for the

1 Commission to adjudicate the justness and reasonableness.
2 We do plan to address in that filing change that would be
3 effective to projects already in the queue as well as
4 forward-looking change.

5 It's not that nothing has gone on in our
6 footprint. We've got thirteen and a half gigawatts that
7 have been through the queue and have reached interconnection
8 agreement stage. There's about 2000 megawatts of installed
9 wind capacity in the region. So it's not that nothing has
10 happened.

11 But again a backdrop of our members where there's
12 about just under 130 gigawatts of installed capacity and a
13 peak energy use last summer at about 113 gigawatts, you look
14 at our queue and with 71, almost 72 gigawatts in the queue,
15 that's a remarkable proportion of resources as against real
16 load.

17 We think that mismatch between what's in the
18 queue in amount and what the load in our region is in amount
19 is one of the things that creates the frustration for
20 everybody.

21 We're clearly not in the position to pick winners
22 and losers to judge which projects are going to win
23 commercially and which ones have better equipment and which
24 ones are going to ultimately win out. But we do know that
25 not all of these projects will.

1 We've got some statistics in our brief history
2 that about 30 to 31 percent of the projects in the queue end
3 up reaching the interconnection agreement stage and proceed.
4 It's our speculation that that's in large part due to the
5 lack of demand by load identification up front.

6 Again, Commissioner Spitzer, I'm not trying to
7 advocate that somebody has to have a power purchase
8 agreement for the long term before they have queue position.
9 We don't want to do that.

10 But if, for example, on renewable mandates
11 there's a measurable amount of consumption in the region and
12 we have three, six, ten, twenty times the amount of wind in
13 the queue that there's regional demand for, it suggests we
14 have to file something with you to change; otherwise we'll
15 never get to a solution.

16 So we have group studies. Some of the people
17 involved in the group studies are frustrated with them.
18 They do help get the world forward in a fashion. But if
19 you're in a group study and somebody in your group drops out
20 the Midwest ISO's response is we have to restudy. If you
21 expected a definitive answer to provide commercial certainty
22 to allow your projects to go ahead you'd just be frustrated.

23 Business people rationally want commercial
24 certainty. They want enough certainty to plan on. Our
25 process is one part of the certainty. State siting is

1 another. We need to give them better certainty in terms of
2 what we think the solutions are likely to be. I don't want
3 to prejudge our stakeholder process, but it's going to have
4 to come to conclusion early winter for us to draft tariff
5 sheets to make the spring filing.

6 I think I finished first out to address the
7 process of what does it mean if somebody can buy turbines
8 faster, can secure sites better, and then also to link this
9 planning notion to get demand and generators in touch. A
10 regionally identified project or path is in one state, so
11 we're not going to be in the position of picking, say, North
12 Dakota -- even though Jerry had those very kind comments as
13 to the winning state.

14 And I just ran out of time.

15 COMMISSIONER KELLY: Thanks.

16 Charles.

17 MR. HENDRIX: I appreciate the opportunity to
18 participate in today's technical conference to share with
19 you SPP's perspective with regard to our generation queue.
20 Our experience certainly bears out the Commission's
21 observation that stress has been placed on the queue
22 management approach due to unprecedented demand, principally
23 in the area of generation from 2003 through 2005.

24 We received approximately 24 new interconnection
25 requests each year. Last year we received 49 requests. So

1 far in 2007 we've received 53 new requests. Currently we've
2 got 76 active requests in our queue. Of these, 67 are for
3 wind projects and a total of about 15,000 megawatts.

4 When you add in the wind farms that already have
5 an interconnection agreement signed, that jumps to 19,000
6 megawatts, compared to last year. We had 27 requests for
7 about 4300.

8 Our peak load in our footprint is approximately
9 43,500 megawatts. The wind with IAs and other study amounts
10 to over 40 percent of our peak load. The current
11 projections by the Department of Energy on wind development
12 in SPP suggests that two to three times can be in our queue
13 in the next two years.

14 This development has significantly increased work
15 load on our staff. We've hired additional staff and our
16 consultants. But it doesn't appear the way it's going that
17 throwing manpower at it is going to solve this problem.

18 We believe there's a few areas of concern.

19 One of the issues is the load cost and lack of
20 commitment necessary to file interconnection requests. And
21 as a result many requests seems like the state would enter
22 the queue and they executed an interconnection agreement and
23 are later suspended, which complicates our study process.

24 We have a large portion of the interconnection
25 request that we receive that doesn't have a buyer for the

1 energy. A load-serving entity will go out for an RFP and
2 then we'll see a significant increase in queue requests
3 responding to that one RFP. We've had instances where a
4 customer will make requests without knowing which machine
5 they're using, and we wind up having to restudy that
6 particular request two or three times when they change what
7 turbine they're using.

8 There's an option of rescinding a project, as
9 they call it, for three years. SPP currently has
10 approximately 1900 megawatts of IA on suspension. All of
11 those are wind projects. This makes the studies extremely
12 hard to complete as the models used for the study become
13 unrealistic.

14 Another concern is the distinction we have been
15 interconnection and delivery. In SPP's process the only
16 network upgrades we assign are for short-circuit
17 instability. This can result in some minimum network
18 upgrades assigned to a project and encourages developers to
19 sign on on suspension.

20 There have been some discussions about
21 clustering. We still feel that clustering would trigger the
22 interconnection upgrades that are necessary to interconnect
23 the generation. But we fear that the cost allocation
24 provisions would probably trigger restudies that we so far
25 haven't seen due to our low withdrawal rate. It's also

1 unclear how a project that would be cost allocated at
2 network upgrade in a cluster setting could fulfill that if
3 they go on suspension.

4 We do have experience in clustering the
5 transmission service studies referred to as the aggregate
6 study. Our experience with the aggregate study has been
7 mixed in that we have sold 3600 megawatts of service. But
8 we are seeing multiple restudies due to the problems we've
9 been having with the study.

10 We do believe there's a few changes that can be
11 looked at. First, the refined application requirements, the
12 customer commitment to be considered, the application could
13 be increased and make it applicable to construction costs.
14 The application could contain indications of a viable
15 project. If they don't have these indications then they
16 could stay on the present process, but the ones that could
17 could be on a fast track.

18 Second, the option to suspend the IA at no cost
19 should be revisited. A shorter time frame and a possible
20 charge should be considered. SPP would request guidance be
21 given to a cost allocation of projects that are also
22 scheduled.

23 Third, if clustering is required I believe it
24 should probably be in conjunction with the changes mentioned
25 above for better commitment.

1 Thank you for your attention.

2 COMMISSIONER KELLY: Thank you, Charles.

3 Dean.

4 MR. GOSSELIN: Thank you for this opportunity.

5 My name is Dean Gosselin, Vice President of FPL Energy and
6 Development.

7 FPL is the largest owner-operator of wind energy
8 in the United States today. We own roughly one-third of the
9 generating capacity, with nearly 5000 megawatts in ownership
10 and operation today.

11 Also earlier this year we announced plans to
12 install an addition 8- to 10,000 megawatts by the end of
13 2012.

14 As we look at this we say the broad scope of this
15 conference reflects the critical role interconnection plays
16 in bringing more renewable generation onto the grid. The
17 realization that current interconnection policies are
18 inhibiting wind development and the urgent need to address
19 the growing needs of the states and the challenges they face
20 in meeting their renewable portfolio standards,
21 interconnection policies in the Midwest have failed to
22 timely integrate wind resources because the process lacks
23 the efficiency, transparency and predictability that was
24 contemplated in the FERC Order 2003. Urgent reform is
25 needed as the volume of wind interconnection requests has

1 soared in recent months to meet the public's growing need
2 for these renewable resources.

3 While our views are more fully expressed in a
4 white paper we submitted in advance of this conference, we
5 do believe there are a number of practical near-term
6 solutions to this interconnection challenge. And that's
7 what we'll focus on today.

8 We also believe that many other generation types
9 beside wind can have the same principles applied. But we do
10 recognize there are differences, both regionally and in
11 technology.

12 Lengthy interconnection study procedures present
13 one of the most immediate regulatory barriers to wind
14 development. The completion of these studies, which
15 examines the technical feasibility of wind integration and
16 its effect on neighboring transmission systems and the need
17 for corresponding upgrades have taken far longer to produce
18 than provided for in the Midwest ISO's tariff, underscoring
19 the urgent need for reform. As a result, thousands of
20 megawatts of wind generation are not being interconnected as
21 they're stuck in various group studies established by the
22 Midwest ISO.

23 We believe that the interconnection process can
24 be greatly improved by expanding the use of third parties to
25 perform out of sequence system impact studies to enable

1 energy resources to be interconnected without getting stuck
2 in a group study and making feasibility studies optional and
3 requiring the Midwest ISO to provide sufficient information
4 to enable its customers to assess feasibility on their own.

5 The Midwest ISO queue is not clogged with
6 projects that will never be built because its tariff does
7 not have appropriate mechanisms for distinguishing between
8 viable projects and unrealistic applications. All that's
9 required to get in and remain in is a \$10,000 deposit.

10 We believe the queue can be dramatically improved
11 by taking immediate measures to ensure that only viable
12 projects remain in the queue: The posting of additional
13 security during the study process that would be refundable
14 upon demonstration of full site control or the dropping out
15 of the queue; an LGIA execution making the security
16 requirement non-refundable, full site control has not been
17 demonstrated, and requiring a demonstration that wind
18 turbine equipment has been procured, and shortening the
19 suspension period of an executed wind interconnection
20 agreement to one year.

21 The current interconnection service for wind
22 falls into two categories: energy resources and network
23 resource interconnection services. Both require
24 interconnection studies and network upgrades that assume
25 wind output at full output during all hours of the year. By

1 allowing more wind interconnection customers to take service
2 under an alternative product in which there is a provision
3 for service of conditional energy resource interconnection
4 service, we believe interconnection policies can better
5 recognize the unique characteristics of wind energy.

6 By requiring operating procedures for such
7 resources that could require their disconnection from the
8 grid during certain critical system conditions the expansion
9 of the service would ensure safe and reliable
10 interconnections for wind generation.

11 In FERC Order 890 FERC made its provisions in the
12 transmission provider's tariff mandatory and enforceable
13 subject to civil penalties of up to a million dollars a day,
14 including transmission service study requests. FERC did not
15 expand those interconnection procedures. FERC should do so
16 now.

17 The specific penalties and RTOs that fail to meet
18 study deadlines should be deferred until near term queue
19 reforms have been implemented and non-viable interconnection
20 requests have been eliminated from the queue.

21 Lastly, unlike other generation requests that are
22 schedulable, wind is variable and generally an off-peak
23 resource. FERC should request that the Midwest ISO modify
24 the modeling assumptions to better reflect the wind
25 characteristics during peak periods as others have already

1 done so.

2 COMMISSIONER KELLY: Thank you, Dean.

3 Kris.

4 MR. ZADLO: Good morning.

5 I hate to say it, but a lot of this conference
6 for me seems to be a rerun of the conference that happened
7 about four years ago. Whereas Order 2003 went a long way of
8 standardizing procedures and expectations, a lot of the
9 underlying problems still exist today.

10 Let me start off by saying that any changes or
11 improvements should apply to all generators. Four years ago
12 the queues were filled with gas generators; today it's
13 renewables. Three or four years from now it's going to be
14 another generation technology.

15 The grid doesn't discriminate between megawatts.
16 It doesn't matter if it's nuke, coal, wind, gas. It all
17 impacts the grid.

18 Our country's energy needs cannot be fulfilled by
19 any single generation technology. Again, for all those
20 reasons, any changes should apply to all generators.

21 Now there's three things that we can do to
22 improve the queue. Transmission providers need to increase
23 their resources to help with processing. Transmission
24 providers need to streamline their internal approval
25 processes, and they need to be held accountable. Let me

1 illustrate this with a real life example.

2 The example I'm going to provide you is before
3 the glut of wind in the interconnects that just happened in
4 the last several years. We submitted a request. We waited
5 15 months to get a scoping meeting. In that scoping meeting
6 the first thing that was told to us is it's going to take
7 three weeks to get a schedule. Three months down the road
8 when we're supposed to get a study we're told that an error
9 was uncovered in the base case and the study needs to be
10 redone.

11 The long and short of it, it took six months to
12 get a study.

13 Some additional background information. There
14 are three transmission providers and the ISO involved.
15 There was no restudy performed for a higher queue position
16 dropping off this was just a controlled straight line study
17 And the transmission provider wasn't waiting for any
18 information from us.

19 So what went wrong? Why did it take so long?
20 Lack of resources.

21 The transmission engineers assigned to the
22 project are overtaxed. They have a multitude of
23 responsibilities that prevented them from focusing on the
24 analysis. They have to do base case development, expansion
25 plans. They have to participate in NERC committees. It was

1 just very difficult for them to focus on the analysis.

2 And there's a question of who's in charge. It
3 was very difficult for the ISO to schedule meetings with the
4 transmission provider. It's akin to herding cats. But more
5 importantly, it was very difficult to get everyone to
6 approve the analysis.

7 There's a lot of internal approvals that happen
8 at these utilities. The study itself, computing time takes
9 about a couple of hours. A good transmission engineer could
10 crank out a study in a week. But the transmission planner
11 has to get approval from his manager. His manager has to
12 get executive approval. He has to run it by legal,
13 regulatory, substation, real estate. So there's a lot of
14 other things happening behind the scenes that are delaying
15 the process.

16 Finally, accountability. The penalties are
17 asymmetric. If I miss a milestone I'm out of the queue. If
18 a transmission provider misses a milestone there's no
19 repercussions. Even worse in our scenario where there was
20 an error I had to pay for two studies. That's happened to
21 me multiple times. This isn't a single error; it's happened
22 to me multiple times.

23 In short, transmission providers need to increase
24 their resources, streamline their internal processes, and be
25 held accountable. These are fundamental issues that need to

1 be addressed before we move forward with any other
2 approaches because those approaches are going to fail as
3 well.

4 Since I've got a minute here I'll go off script
5 here and I'll mention two things about clustering.

6 My comment with resources applies to clustering
7 as well. We submitted two requests at the same time to PJM
8 East and PJM West. PJM East, we got our study back in time
9 per the tariff. All the deadlines were met. PJM West, the
10 comment I got back from PJM was, well, the transmission
11 provider is so backlogged we can't give you an estimate of
12 when you're going to get a request.

13 So clustering by itself is helpful; it's existed
14 from day one. When we're on the LGIP process it should have
15 been implemented long ago by some of these transmission
16 providers. But by itself it's not going to be the cure-all.

17 And phantom projects, one out of four projects
18 will reach development. And that's just because developers
19 have to balance a lot of other issues outside of
20 transmission.

21 And I'm over my time. Thank you.

22 COMMISSIONER KELLY: Thank you, Kris.

23 Don.

24 MR. FURMAN: Thank you, Commissioner Kelly. I'm
25 here on behalf of PPM Energy. We are the second largest

1 wind developer in the United States but we're the biggest in
2 the world.

3 (Laughter.)

4 MR. FURMAN: Ybadrol is a Spanish company that
5 acquired Scottish Power, which was our owner. And at the
6 end of the day we have the most operating wind ownership in
7 the world.

8 We're developing across the country. We're in
9 every region of the country. We're on both sides of this
10 issue. We're in the queue high up and we're in the queue
11 down low. We tried to figure out which side we wanted to be
12 on, and it's hard.

13 What my comments are going to reflect is our best
14 attempt to shoot down the middle and provide good public
15 policy guidance.

16 There are two general ideas that I want to throw
17 out. One is I would implore the Commission -- by the way, I
18 think it is great that you are having this today and it's
19 great that you guys are all here listening to this because
20 this is an important issue to us. But please don't throw
21 the baby out with the bath water.

22 LGIP has done a lot to make independent power --
23 allow it to continue to be viable. And independent power
24 today is under a great amount of stress. Many utilities
25 across the country -- most, probably the vast majority --

1 are being very vocal and very aggressive in their desire to
2 self-build. It's a difficult time to be an independent.
3 This is one of the protections that the independent industry
4 has against the exercise of vertical market power. It is in
5 large part working. It is not working very well in the
6 Midwest because it's being overwhelmed.

7 As Commissioner Moeller referred to earlier --
8 and some others have -- we've seen this before in the gas-
9 fired era of five years ago when Palo Verde I think had
10 30,000 megawatts of interconnection requests and no place to
11 go. So we will work through this.

12 I do think it's important for us to have -- It
13 is important for the commission, I should say, to take
14 action to tweak and to modify and to make some changes in
15 the policy that will improve it. But it is a critical --
16 and I think even the utilities would tell you it has been a
17 much nicer way to do business when there is clear policy
18 guidance and a process to follow. It is objective and not
19 subjective.

20 Part of that same issue is I would caution the
21 Commission not to get involved in the development process,
22 not to open this process up to inquiries into whether you
23 have committed turbines to a specific site, for example.
24 Site control is a slippery slope. We would much prefer to
25 see the kind of measures put in that I think everybody has

1 said would be effective, which is let's raise the stakes;
2 let's create more of a financial commitment and let the
3 developer decide, you know, okay, it's now or never; I've
4 got to make the decision and I've got something at stake; I
5 have some skin in the game.

6 The second broad point I want to make is a point
7 I try to make whenever I speak in public -- even at birthday
8 parties and bar mitzvahs, which is we need more
9 transmission.

10 (Laughter.)

11 MR. FURMAN: If you think about this, this
12 queuing problem will be much less of a problem if we weren't
13 so constrained. We wouldn't have to be doing all these
14 studies. And I won't belabor that point. But I think it's
15 a very important point that we need to keep in mind.

16 Specific positions that we would advocate is,
17 one, let's not do away with first come-first served. It is
18 objective, it is clear. And I'm not opposed to putting
19 other criteria in place. But it is one of those fundamental
20 protections to the independent developer. And it is not
21 subjective.

22 Second, I completely agree we need to add
23 resources. The ISOs, the transmission owners who are not on
24 ISOs need more transmission engineers, need to be encouraged
25 to hire more transmission engineers. This is not a blip.

1 There is broad public support for a lot more renewables in
2 the portfolio. We need a lot more megawatts on the ground.
3 And it's not going to go away.

4 Third, clustering I think is a good response but
5 it's got to be done right. You can't create a big
6 geographic area and throw all the generation in a massive
7 area and expect the transmission engineer to make sense of
8 that any time soon. There needs to be a rule of reason that
9 says let's carve out projects that are electrically
10 interrelated. Let's do it in a geographic area that's
11 discrete and be reasonable about it.

12 Financial commitments I've already mentioned. I
13 think they are important.

14 And probably the most important element of this,
15 and lastly -- I haven't heard anybody else mentioned this --
16 but when there are reliability benefits created by some of
17 the upgrades that are required those costs ought to be
18 allocated to the system as socialized. They shouldn't be
19 put on the backs of the developers. Frequently we'll see in
20 a study where that happens.

21 I'm over my time so I'll stop there.

22 COMMISSIONER KELLY: Thank you Don.

23 Rob.

24 MR. GRAMLICH: That's all right, Don, because as
25 my transmission committee chairman board member, it's all

1 your time if you want it.

2 (Laughter.)

3 MR. GRAMLICH: Rob Gramlich, policy director,
4 American Wind Energy Association.

5 We very much appreciate the Commission holding
6 this conference and this participation of the RTOs and ISOs
7 and various stakeholders here. It's a particular privilege
8 for me to be in a comfortable chair instead of where I'm
9 used to being, on the seats back there where I never had the
10 posture good enough to sit.

11 In particular, having Dean Bosselin here, who is
12 also a board member of NWEA -- and Sean Finnerty will speak
13 later. I also want to recognize there's a group from
14 California. Joshua Bar-Lev will speak. His remarks include
15 a lot of input from wind developers in California. So we
16 don't have wind on that panel. I'll try to speak a little
17 more nationally than just Midwest on this. But those
18 remarks are very consistent with some I think you're hearing
19 from the wind side up here.

20 You've heard by now that the interconnection
21 process is broken. AWEA has been saying that. We said it
22 in the Commission's ANOPR process for competition in ISOs
23 and RTOs.

24 We want to be clear when we say that, as we were
25 in those comments, that we don't want to give any impression

1 that this is a problem with the design of RTOs and ISOs. As
2 AWEA frequently says, you can integrate a whole lot more
3 wind energy into ISO and RTO market structures than you can
4 in the balkanized market structures outside of these areas.
5 And this should be an important national policy agenda item
6 if the nation is serious about climate change and renewable
7 energy.

8 Also, as Don just said, we want to be clear that
9 Order 2003 in standardizing generator interconnection really
10 moved the ball forward. We don't want to in this process do
11 anything that turns back to the clock to the good old days
12 of discrimination. We want to make sure it's a level
13 playing field in the process.

14 I want to complement what Dean and Don have said,
15 and also what I think Sean and Joshua are going to say, and
16 focus on one particular area that deserves a lot of
17 attention in this process. And that is the assignment of
18 transmission costs and participant funding.

19 Participant funding is the root of much evil in
20 this process. It's a crazy process if you think about
21 planning a shared regional network on the basis of the next
22 individual project in a generator queue. It would be like
23 planning a highway expansion and putting all the costs on
24 the first car to come up the entrance ramp. It just doesn't
25 work.

1 It didn't work very well for gas generation. It
2 may have worked somewhat okay for PJM based on their robust
3 grid. And that was a model for some of the regions.

4 But in areas where there are more transmission
5 needs and now that you have much of the generation being
6 wind, which is relatively small and generally more remote
7 from load, it's a totally broken process.

8 So it's our hope -- first of all, we know FERC is
9 not going to be able to wave its pen and undo this
10 politically -- maybe legally but not politically. So this
11 is an outreach issue for states. We think a lot of
12 utilities in the states need to recognize that this is a
13 fundamental issue that needs to be addressed.

14 I move now to solutions. I appreciate the focus
15 on solutions. I think it's helpful to envision success in
16 this area. You can look at Texas, where two-thirds of
17 current wind generation is being interconnected today very
18 successfully. The interconnection process is smooth there.

19 Outside of the RTOs and ISOs there is the
20 accrediting policy where generators don't pay the network
21 upgrade costs ultimately. And that is working better.

22 Somewhat ironically, the ISOs and RTOs based on
23 their superior market structure were given the opportunity
24 to use participant funding. Some of them have various
25 ratios apply and that has been again the source of the

1 problem.

2 I want to just briefly list -- well, I also
3 mentioned it's not that hard to change. Recently ATC in
4 Wisconsin and ITC in Michigan used their prerogative to file
5 an alternative approach even within the MISO footprint. And
6 things are working there. So it's not that hard to do.

7 I want to just list briefly some of the solutions
8 that are being discussed that I think makes some sense. The
9 geographically-based clusters make some sense. They have to
10 be well done. There are pitfalls with that approach, as
11 others have said. Dean mentioned this conditional energy-
12 only interconnection service. That's a very promising idea.
13 You know, the FPL comments are very interesting. Short-term
14 solutions to the particular MISO footprint, those should be
15 considered.

16 And I'm out of time. But I think generally a
17 number of the ideas I've heard today are consistent with
18 what wind industry members are open to and willing to talk
19 about in these regional processes.

20 Again, the one caution there is when things start
21 to get into issues that look like discrimination. But
22 otherwise I think there's a lot of incremental improvements
23 that are appropriately on the table.

24 Thank you.

25 COMMISSIONER KELLY: Thank you, Rob. I

1 appreciate all of your contributions here.

2 And I'm going to open the questioning to my
3 colleagues.

4 COMMISSIONER SPITZER: Madam Chairman.

5 Let's talk about the open season proposal. I
6 posed that question to the prior panel and there wasn't very
7 much response.

8 Do you have a Midwestern perspective or can you
9 more generally respond using the natural gas pipeline model
10 that has been pretty successful in separating the wheat from
11 the chaff without discrimination. How can that be applied
12 here?

13 MR. KOZEY: Commissioner, I'll take the first
14 start.

15 Again, our stakeholders together are trying to
16 balance the strengths and what you get from this process and
17 be mindful of what you sacrifice. In my own view it will
18 have the advantage if we can get states that have renewable
19 goals, targets, mandates, and certainly if Congress were to
20 move ahead on RPS it would include all our states as opposed
21 to just now some.

22 We'll admit that we have a certain minimal
23 infrastructure build-out that has to be accomplished. This
24 minimal build-out is more than several hundreds of miles of
25 at least 345 kV infrastructure.

1 If load that will have requirements or use 'x'
2 percent of its generation from renewables can hold place for
3 a while the cost of construction so that then the eventually
4 wind projects and others can take a fair share -- Mr.
5 Gramlich and I may differ what the fair share is -- but a
6 fair share on that, we can get I think certainty for policy-
7 makers that their goals in their states can be met with
8 consumption targets. We'll have infrastructure to support
9 the delivery of renewables to them.

10 So I'm hopeful that's where it will come out and
11 that will be an element of what we file, I expect, with you
12 in the late spring.

13 COMMISSIONER SPITZER: In what respect -- this
14 may be more for the developers -- and remember, Don, I'll
15 have you at my kid's bar mitzvah.

16 (Laughter.)

17 COMMISSIONER SPITZER: How would the
18 participation in an open season, which is a contract
19 situation, how could that be affected in your case? The
20 same idea, just a contract with the ISO?

21 MR. FURMAN: Commissioner, I think for one thing
22 in the subsequent panel Bonneville Power Administration will
23 be up. We have been working closely with them on their open
24 season proposal.

25 My take on open season -- and I've been on the

1 gas side as well -- it works well on the gas side for two
2 reasons which don't exist here: You have clear federal
3 regulation and one regulator. And I think Steven made some
4 reference to the fact that you have to keep states happy in
5 this, too.

6 Secondly, we're talking about power here. We're
7 not talking about pipelines where you can put something in
8 one end and make it come out the other. You do have the
9 planning issue and the fact that electrons go where they
10 want to go.

11 Having said all that, there are definitely in my
12 view going to be situations -- and I think Bonneville is a
13 situation where this can work. You know, I would suggest
14 that there are people better than me who can sort of walk
15 through what they're proposing and what are some of the
16 issues there. But I think it's viable.

17 COMMISSIONER SPITZER: Dean.

18 MR. GOSSELIN: Thank you, Commissioner.

19 When I think about open season I think about a
20 longer-term solution versus short-term and near-term use.
21 The great congestion right now, we need to clear the queue
22 up and allow it to go forward. But I also think there are
23 various proposals that can work. An open season could work
24 as well longer-term.

25 But Don's point, we think of wind as an energy

1 resource. As such it's not a capacity resource. So the
2 firmness should be able to be selected by the developer.

3 If they want network resource treatment they
4 should be able to ask for it and pay for it. If they want
5 truly energy resource, which means when the grid's available
6 we can use it, then use it; when the grid's not available or
7 its reliability has been compromised, get off or reduce your
8 output or constrain yourself.

9 We should have that -- wind should have that
10 ability to choose. Right now it does not. The open season
11 doesn't take care of that piece of it.

12 COMMISSIONER SPITZER: Why don't you tell me a
13 little bit more about the conditional energy interconnection
14 service.

15 MR. GOSSELIN: The thought is pretty
16 straightforward. Back to wind being an energy resource, by
17 its very nature not being a capacity resource, it should not
18 require firm interconnection service. And that's what it
19 gets: firm service. The planning process says all of the
20 wind on the grid is going to be there when the system is at
21 its weakest point or at peak. That's not true. That's not
22 what happens with it.

23 We should rationalize those inputs, but also
24 rationalize that wind again can be removed from the system.
25 It's not there; it's not contributing to the firmness, to

1 the fact that the lights are on. So take it off when it's
2 compromising the system. That's the conditions.

3 Describe the conditions and then back to that
4 finance-ability or that market test, if you will. Describe
5 the conditions so that the wind developers, the wind owners
6 can value it. Is it ten percent of the time? Is it 100
7 percent of the time?

8 You know, in a way LMP markets send you signals.
9 Locational marginal pricing markets send you signals. What
10 we're looking for is similar signals from the
11 interconnection process: When do we expect to compromise
12 system reliability and, when that happens, get off the
13 system. Create operating guidelines that say don't
14 compromise the system.

15 COMMISSIONER SPITZER: Steve, from your
16 perspective these are climatological as opposed to economic.
17 What are the challenges that incorporate that from your
18 perspective?

19 MR. KOZEY: If it were one project they're finite
20 challenges.

21 The engineers tell me, you know, fiber optic
22 communications, a developer with significant enough
23 investment and technology themselves could be able to
24 literally upon a signal disconnect from the grid. If it's
25 hundreds of them I don't think that our engineers are

1 confident we can come up with a set of operating protocols
2 stacked on one another without entering some of the same
3 discussions about is it first in-first out, you know, and
4 who has what rights there. It's not a closed door.

5 We and FPL Energy are in concert with one
6 another. They're part of our stakeholder process. But
7 again, if it were one project, yes. If it's a hundred
8 projects, I don't think so, that we can say yes yet.

9 COMMISSIONER KELLY: Thank you, Mark.

10 John.

11 COMMISSIONER WELLINGHOFF: Thank you,
12 Commissioner Kelly.

13 Let's start off with Dr. Zadlo's second point.
14 And then I'll address to Mr. Hendrix Mr. Kozey related to
15 streamlining the process.

16 Where are the roadblocks? What is taking the
17 time? I need to understand the process better. What's the
18 first thing we can hit, you know, first to reduce the time
19 to get these studies done?

20 Mr. Kozey.

21 MR. KOZEY: On the resource side I think this
22 process already has required management of everybody who's
23 doing these studies to address the resources they have, the
24 questions you've got. If when we bring forward solutions we
25 shorten some time frames that will crimp some projects'

1 flexibility as part of also holding the steadier two time
2 frames, Commissioner, that are in the tariff I think that's
3 fair.

4 Getting base model assumptions to have
5 credibility in your transmission provider community has been
6 something that has dragged us so far. I believe we're much
7 closer to that. Part of that means in our system every
8 transmission owner has to be comfortable through a
9 transparent process.

10 Everything we say about the base case is
11 reasonable so that the frustration that Kris talked about
12 doesn't happen when one guy says we didn't update our
13 assumption list to you last quarter like we were supposed to
14 and we're sorry but now here's the update.

15 By other rules on file with the commission we're
16 required to use system ratings provided to us by the TPs.
17 That's one area.

18 COMMISSIONER WELLINGHOFF: Let me stop you for a
19 second.

20 Keeping the base case updated is a problem is
21 what you're saying. That seems sort of fundamental, that
22 we've got a base case and any developer walks in off the
23 street and you say, okay, we've got the base case to start
24 with: Here it is. That has to be something we need to
25 figure out how to get the resources to do and get everybody

1 together and get that done.

2 MR. KOZEY: Yes, sir. It should be further
3 advanced than it is and we're committed to get it further
4 advanced.

5 It's just that in a real world problem when you
6 get it set and you have, say, a 1200 megawatt coal plant
7 whose folks have got authority to build the plant in the
8 state where it's going to be located, a state that is going
9 to certificate a transmission line for it is not sure it
10 will or not, that plant is in our base case. When
11 regulatory developments happen in the plant -- maybe changes
12 its size, scope, year of in-service -- that's going to
13 change, too, what we have to do.

14 We have your problem. We're conscious of your
15 problem. We're trying to make all the transmission
16 requirements.

17 COMMISSIONER WELLINGHOFF: Let me understand.
18 That plant's in the base case. But that plant is also in
19 the queue, right?

20 MR. KOZEY: Yes. But it's not able to get on
21 unless --

22 COMMISSIONER WELLINGHOFF: How do you determine
23 somebody else's plant is not in the base case. I'm confused
24 as to what is in the base case.

25 MR. KOZEY: We are putting things that have

1 reached the generator interconnection agreement stage.

2 COMMISSIONER WELLINGHOFF: They've got an
3 agreement? Okay. I'm sorry. So they're not in the study
4 queue.

5 MR. KOZEY: Right. They've made it all the way
6 to interconnection.

7 COMMISSIONER WELLINGHOFF: All right.

8 But just because it's got an interconnection
9 agreement doesn't necessarily mean that you say somebody is
10 going to approve the transmission line to actually have that
11 project built.

12 MR. KOZEY: Correct.

13 In terms of importance within the company we have
14 annual incentive goals that are set every year -- not just
15 for the officers but for all employees -- and strategic
16 initiatives making a filing with this Commission is good
17 enough for you to accept it. It's something that when our
18 board adopts it, as I expect they may here either this month
19 or next month, it will be part of what affects all incentive
20 compensation for all employees at the Midwest ISO. That
21 should remind every manager that when he or she needs
22 resources that it's prudent to bring it up through the
23 change of command as to wherever there's a crimp so that we
24 can get this going.

25 COMMISSIONER WELLINGHOFF: Let me again talk

1 about the process of streamlining it. Specifically beyond
2 this issue of getting the base case straight what other
3 things are slowing this process down as to how it operates?

4 Mr. Zadlo indicated the computer run takes a
5 couple of hours. Is that correct?

6 MR. KOZEY: Yes, sir, for a non-group study, a
7 simple project interconnection.

8 The group studies, unless better shaped, as
9 they've described, to electrically related folks in a finite
10 geographic area take longer. They take longer whether we do
11 them, whether Siemens does it for us as a contractor, or
12 whomever can do them, especially in the part of our
13 footprint, where Jerry Lein from North Dakota reminded you
14 all that there are stability problems: that the major
15 resources that can be committed to allow the safe and
16 reliable continued operation of the grid are themselves a
17 factor.

18 The other kinds of elements that we think can
19 improve this process about studies is to shrink times again
20 for durations, but also to request more from the folks in
21 the development queue, more physical data. You've heard
22 from Charles what if a developer says when you have a wind
23 item it's only this many megawatts -- it's 80 megawatts but
24 I'm changing technology. So more data, firmer data.

25 We can push that. that's an improvement in one

1 way. But it's a crimp on the flexibility afforded somebody
2 who's going to interconnect.

3 COMMISSIONER WELLINGHOFF: Mr. Hendrix, do you
4 have any comments on the question?

5 MR. HENDRIX: We have similar problems in getting
6 the studies finished, not so much in doing a general base
7 case.

8 But we put thousands of megawatts that are prior
9 queued in the model. The projects that have an
10 interconnection agreement are in the model. The projections
11 that have an interconnection agreement on suspension are in
12 the model. None of them have deliverability associated with
13 them. And so you have a completely saturated power flow
14 model. You know, we don't know where to send the energy to.

15 We synch it within the footprint or synch it
16 outside. SPP, the hole is going to be in the supporting
17 region. We take it outside of SPP. Cost allocation, you
18 know, and transmission are areas outside of SPP. But those
19 are just issues that just make the studies difficult and it
20 does slow the process down.

21 COMMISSIONER WELLINGHOFF: Mr. Zadlo, do you have
22 any comment on those answers?

23 MR. ZADLO: Yes.

24 Commissioner, you highlighted a point of
25 frustration of mine that I've had. I find it ironic that

1 ISOs have base cases in topology models that they use to run
2 the system that they use for their expansion plans. But
3 when it comes to interconnection they have to recreate the
4 world. I think that could go a long way -- if you had an
5 off-the-shelf case it would improve the processing and the
6 turn-around of these studies.

7 COMMISSIONER WELLINGHOFF: That makes a lot of
8 sense.

9 The next question I've got for Mr. Furman, I
10 guess, Mr. Furman, Mr. Gramlich and Mr. Gosselin are all the
11 ponytail guys we've got here today working on the wind
12 stuff.

13 (Laughter.)

14 COMMISSIONER WELLINGHOFF: Mr. Furman, I was
15 interested in your comment that you didn't want, number one,
16 to change the first in-first out system, and that if there
17 were any criteria you wanted to put on to people getting in
18 the queue it would be primarily financial commitment
19 criteria.

20 Could you talk about that in relationship to also
21 your concern about ensuring that we maintain a
22 discriminatory process that allows for independent power
23 producers to compete equally with vertically integrated
24 entities, because I would think the vertically integrated
25 entities would have more ability to provide this financial

1 commitment than a lot of independents because they're
2 obviously responsible to their rate-payers or shareholders
3 and you're going to be taking out of your pockets.

4 MR. FURMAN: To answer the last point first, the
5 financial commitment is, well, let's face it, this is not a
6 ponytail business any more. Big companies with big boy
7 pants and balance sheets. So I don't think there's much of
8 a disparity any more, certainly for the vast majority of the
9 projects that are in development. There are still small
10 developers out there that are a critical part of the
11 business. We may want to think about that a little bit.

12 But the other thing is this is a threshold issue.
13 I think the proposal here is you still have the first in-
14 first out rule. But you have a threshold where you have to
15 write a pretty big check. And there may even be a little
16 bit of pain associated with it.

17 COMMISSIONER WELLINGHOFF: Should the check be
18 commensurate to the size of the project?

19 MR. FURMAN: Maybe. I don't have a hard and fast
20 proposal on that. But it ought to be more than what it is
21 today.

22 What that does is -- the other thing that I have
23 observed, even when I was on the other side, on the utility
24 side, is there are developers and then there are developers
25 and then there are projects and then there are projects.

1 There's a lot of people who can make a lot of noise about a
2 project that is never going to get built. I've seen that
3 many, many times. So that financial commitment really
4 creates I guess the sieve through which you filter people.

5 The other answer -- the other response or
6 elaboration I would give on the concern is the more
7 subjective you make the criteria the more -- this is
8 particularly true with vertically integrated as opposed to
9 ISOs -- the more subjective you make the criteria the more
10 you put it into the hands and create the temptation to
11 exercise vertical market power. And that's the issue.

12 If you're in a situation where a vertically
13 integrated entity who's selling transmission service can
14 pick and choose in the queue who they want, they're going to
15 pick their own projects or they're going to pick somebody
16 who's going to sell them their project as opposed -- that
17 may not be the best thing for consumers. I guess that was
18 my point.

19 COMMISSIONER WELLINGHOFF: Just to follow up on
20 that, what about the suggestion on the last panel that
21 someone who qualified in an IRP process might have some
22 priority in the queue.

23 MR. FURMAN: I think that's going to create issues
24 because -- I'll pretend I still work for a multi-state
25 utility. That would put me in an awful position because I'd

1 have one state saying this is in the IRP, another state
2 saying this is not; how do I apply that? I mean I think
3 that's a difficult way to go about it.

4 You introduce legitimate state interests in
5 planning. But you introduce that into what is clearly the
6 federal scope, I think, meaning the interconnection process.

7 COMMISSIONER KELLY: Commissioner Moeller.

8 COMMISSIONER MOELLER: Thank you, Commissioner
9 Kelly.

10 First to Mr. Kozey. I think the answer to this
11 question has to do with Congressional action.

12 We can do all we want here. But we don't operate
13 in a vacuum. Congress can change the law on production tax
14 credits or let it expire, and it affects the marketplace.

15 But where did the queue interconnection problem
16 really bog down in the last few years? I mean I've seen the
17 stats in the last few months. But what really happened to
18 create this huge backlog, in your perspective?

19 MR. KOZEY: Commissioner, there's something going
20 on between the end of 2006 and calendar year 2007. The
21 developers know better than I do the availability of tax
22 credits and the terms under which they are earned or likely
23 to happen.

24 But to increase that much in a year, it made us
25 lose all the ground we had gained in queue reform and

1 efficiency in the process.

2 COMMISSIONER MOELLER: Any other perspectives on
3 that?

4 MR. GOSSELIN: I might add successful wind
5 projects really are a convergence of several large issues.
6 One is market structure. Is there appropriate market
7 structure? MISO clearly has. Is the wind resource there?
8 MISO is a wind-rich resource. Lastly, grid access. That's
9 what we're here to talk about.

10 When you have those elements, which are almost
11 unique in the U.S. -- okay? -- you have the convergence of
12 the economics with the wind resource, with the desire to
13 have it, you get this confluence of desire. And this desire
14 is what I believe is coming out.

15 Wind is a big business. There's a lot of
16 potential in the MISO footprint in the wind-rich states in
17 the middle of this country. And it will continue to be so.
18 It won't just be a MISO issue. There's just a big focus on
19 it now.

20 COMMISSIONER MOELLER: But the prospect of
21 expiring production tax credits that arguably are pretty
22 generous certainly has some impact.

23 MR. GOSSELIN: I would argue no, other than the
24 near-term desire to put investment in the ground and the
25 near-term shows that a MISO footprint and those wind-rich

1 states have nearly all the elements to do so. That's the
2 real key to it.

3 COMMISSIONER MOELLER: Fair enough.

4 Again back to Mr. Kozey -- but I want to open
5 this up to other folks -- you mentioned you didn't want to
6 be in the position of picking winners, maybe picking
7 technology. But is it appropriate maybe for only the higher
8 class of turbines -- I think it's class three and class four
9 -- the ones that can better accommodate different wind
10 speeds, better accommodate a shut-off, either if the winds
11 blow too high or have real reliability advantages over an
12 earlier technology, why isn't it appropriate for that to be
13 a consideration in terms of a project development?

14 MR. KOZEY: It will be a consideration for the
15 economics of the project. It will also be a consideration
16 as to how that project relates to our reliability criteria.

17 When I said I didn't want to pick, I don't want
18 to through our stakeholder process have a technology ranking
19 and bring that to you. But having said that, if our group
20 stays with first finished-first out as a way to jump ahead
21 in the queue better developed technology, more available
22 technology in the hands of somebody who's acquired it --
23 whether they're small or large -- should be able to place
24 them more to the forefront.

25 Also, even though at the moment we and FPL Energy

1 are not of one mind on the energy-only conditional kind of
2 resource, if technology changes and advances of those kinds
3 of things can be shown to us to be really operable without
4 complicated operating guides and too much communication,
5 then maybe that technological leap gets us to another
6 product that we don't have today that it would be
7 appropriate to offer.

8 COMMISSIONER MOELLER: Other thoughts?
9 Kris?

10 MR. ZADLO: I'd like to highlight a few things.
11 I think we're on a slippery slope here.

12 When we develop projects probably one out of four
13 development projects go forward. That's the nature of the
14 beast. So when I hear comments of phantom interconnect
15 requests it makes me cringe because as a developer you're
16 managing a lot of issues. You have to manage zoning, gas
17 interconnect, fuel interconnect, try to get local approval
18 for your project. There's a lot of things that can go
19 wrong.

20 And going to Commissioner Spitzer's for there be
21 an open season, I can think of a lot of places on the grid
22 where there is available transmission capacity where
23 generation will never be built and interconnected to it
24 because the local entities will not allow you to do it.

25 I am concerned that we're putting -- the tail is

1 wagging the dog here. The reason why transmission was
2 created in the first place was to deliver an efficient
3 central generating facility's power to load. That's why
4 transmission was built in the first place. And now we've
5 kind of turned it all around. And it's okay, we're going to
6 build generators where there's transmission.

7 We're talking about multi-million, half a billion
8 dollar generating projects here. So I think we need to keep
9 that all in mind here when we take this into consideration.

10 COMMISSIONER MOELLER: Fair enough.

11 Mr. Hendrix, I'll be in Kansas on Friday at the
12 Kansas transmission summit. I was there last year. I heard
13 a fair number of complaints about the queue kind of
14 developing at the time. You in your testimony have given us
15 three suggestions on ways the queue process can be improved.

16 Because I know I'll hear more complaints on
17 Friday, can you elaborate on many a timetable where you're
18 inspired to deal with the SPC's three suggestions?

19 MR. HENDRIX: We really haven't discussed a
20 timetable when we'd need to get together stakeholder groups
21 and bring this to the forefront.

22 Right now the concern among our transmission-
23 owning members, it's kind of heavily weighted in the western
24 end of our system. Some of the others haven't been too
25 concerned. But where the most problem is, that's where we

1 hear. But we need to get the entire stakeholder group
2 together and discuss some of these things.

3 I have discussed it with a couple who gave me
4 numbers. But I would think we would need to discuss that
5 further.

6 COMMISSIONER MOELLER: I'll report to you next
7 week on what I hear on Friday. But I have a pretty good
8 feeling on what I'm going to hear.

9 I guess, finally, I think most of you know I'm a
10 pretty strong proponent of the independent transmission
11 model because to me it logically makes sense that if you're
12 only focusing on transmission you're going to do it better.
13 I think the evidence suggests that independent models are
14 getting more transmission built, a theme we've heard
15 throughout the day.

16 I guess I'd like both Mr. Furman's perspective
17 and Mr. Zadlo's perspective, given that you come from
18 different fuel sources generally, as to whether you've had a
19 better response particularly from the resources' perspective
20 of an independent transmission provider versus an
21 alternative model.

22 MR. ZADLO: I love independent transmission
23 entities. We interconnect at three facilities with American
24 Transmission Company. The process was wonderful.

25 When you're an independent transmission company

1 you're a customer and you're treated like a customer. And
2 they don't care if your load, if you're the incumbent
3 utility, if you're an IPP, they treat all customers equally
4 and they'll bend over backwards and perform the analysis.

5 We've had just a wonderful experience with the
6 ITCs.

7 COMMISSIONER MOELLER: Mr. Furman.

8 MR. FURMAN: I would agree. While there's been a
9 lot of struggle in the independent industry, they also are
10 getting things done. We don't have the luxury of always
11 having that independent option.

12 ISOs are certainly a good thing as well. There
13 are certainly vertically integrated utilities out there that
14 follow the rules and do it well and are interested in making
15 investments in transmission. Those people ought to receive
16 all of our encouragement.

17 But I would generally agree: I think independent
18 transmission is a good thing.

19 COMMISSIONER MOELLER: Any other thoughts? Mr.
20 Gramlich? Mr. Gosselin?

21 MR. GOSSELIN: I agree with Don's statement.
22 Both can work. And we've seen them both work. Both work
23 well. There are models that support and get our support.

24 MR. GRAMLICH: I might just add in response to
25 your question and Commissioner Spitzer's about open seasons,

1 part of what we need is transmission developers to propose
2 projects. The queues are known. The locations of the
3 generation in the queue are known. Let's get busy.

4 If there are vertically integrated providers who
5 aren't interested in building transmission let's let
6 somebody else do it. If that means ITCs, great. And if
7 it's an open season where you resolve the chicken and egg
8 problem by putting the transmission first and putting it out
9 there and saying to the generators, 'You all come,' you
10 know, that's great.

11 We need a lot of generation proposed, a lot of
12 transmission proposed. Which comes first, I don't care.
13 Let's do them both.

14 COMMISSIONER MOELLER: Thank you, all.

15 Thank you, Commissioner.

16 COMMISSIONER KELLY: Thank you.

17 Steve, we didn't get to your list of proposals
18 that you expect to present us with. It would be helpful if
19 you could list those.

20 MR. KOZEY: Sure.

21 In the reforming of the queue process -- if you
22 like backward-looking, like one of the other panelists
23 called it, but I'd say applying it to everybody who's there
24 -- recognition of milestone-based queues that would allow
25 projects to proceed on their readiness rather than solely on

1 queue order. Most of the things, Commissioner Kelly, we're
2 talking about relate to that.

3 If you've got something done you can go ahead to
4 the next step without regard to a person being ahead of you
5 in the queue. They themselves are moving at their own pace.
6 But just getting into the queue doesn't lock in a permanent
7 position. Some of this against the background of its needed
8 investment and whatnot.

9 For our wind areas there isn't extent capacity
10 where somebody's in the queue and they're going to get
11 hooked up for free and no backbone development costs and
12 they're just clogging other things for us. Every
13 significant area for wind development is going to require
14 upgrades to the backbone facilities to get on.

15 So for people who are willing to pay and want to
16 go ahead, I personally think they ought to be able to get
17 that chance and that thought. So we don't have the luxury
18 of there's some buffer and ten people are fighting about it.
19 This process ought to give the people who are willing to
20 take on cost and development risks the chance to get ahead
21 in the queue to do that.

22 COMMISSIONER KELLY: Before you move to the next
23 point, let me ask the generator representatives is that idea
24 consistent with what I've heard from all of you, I think --
25 although I'm not sure Kris actually said it -- that

1 requiring the developer to put more financial commitment up
2 or more security in advance, is that consistent with your
3 view that that's a good way to move the queue along?

4 MR. FURMAN: It is with mine, yes.

5 MR. GOSSELIN: Yes. I don't think it's the only
6 mechanism. As Mr. Kozey has said, we've been working very
7 closely with the MISO organization to try to determine a
8 path forward. And it does go back to a state of readiness.

9 There are certainly projects that are ready to go
10 but for the interconnection study facilities phase of the
11 project. That's what we're trying to get through.

12 COMMISSIONER KELLY: Kris.

13 MR. ZADLO: I think clustering, reasonable
14 clustering and reasonable milestones would alleviate a lot
15 of the problems. I'm a little hesitant about people
16 starting to leapfrog in the queue. I see that bringing with
17 it different problems, and even different tracking problems
18 for the ISO.

19 COMMISSIONER KELLY: But the idea that there
20 would be more attention paid if additional security was put
21 up front or a greater financial commitment was made or a
22 generator, I think Don said, with skin in the game is ready
23 to go. You don't think that they should?

24 MR. ZADLO: Absolutely. I think the way we
25 structured LGIP when we wrote it, it was either/or. It was

1 either some significant milestone or collateral. Getting an
2 air permit can be millions of dollars in certain state
3 jurisdictions. That's a significant collateral expenditure.
4 If you're doing that, that should count for your collateral
5 portion.

6 COMMISSIONER KELLY: Thanks.

7 Steve.

8 MR. KOZEY: Commissioner, two concepts there.

9 One, increased upfront money, which we talked
10 about. There was a question of another panel: do those
11 costs change with size. We're going to be doing the
12 statistical analysis and present it to our stakeholder. But
13 there is some minimum amount that everybody faces, no matter
14 if you're an 18 megawatt unit or an 80 megawatt unit, that
15 to determine a little bit what's a cost-based rational
16 higher threshold.

17 But then, although as you can hear, people who
18 are constituents of ours have differing views about whether
19 the proposal to jump in queue order based on progress is an
20 unalloyed good thing.

21 But one of the elements that will allow that is
22 this demonstration of milestones. Whether it's money
23 deposited with us, I'm not thinking that so much as evidence
24 of the company achieving milestones in its project
25 development scheme. We will probably bring back to you some

1 requests to perhaps give consideration to shortening the
2 three-year suspension that people are allowed to have.
3 Whether that's ultimately only appropriate for wind because
4 it can build and develop faster than base load coal or
5 nuclear, I don't know. It may be.

6 COMMISSIONER KELLY: Do the generators have
7 difficulty with shortening the three-year suspension period?

8 MR. FURMAN: I'll go first.

9 Dean and I differ on this. We do object to it
10 primarily because somebody -- I can't remember if it was on
11 this panel or the earlier panel -- things happen in the
12 development process. When I look at the numbers, the
13 suspensions, for example, they're eight percent, ten
14 percent; it's not the bulk of the problem.

15 The bigger problem is there's this big flood that
16 has come into the queue. We very much value that,
17 certainly. We can talk about some shortening of it. Down
18 to a year would be a significant impediment to our business,
19 I think.

20 MR. GOSSELIN: If I may, we come at it a
21 different way. If we fix this backlog and there's a clear
22 path to the solution, a clear, unambiguous avenue to an
23 LGIA, you don't need the backlog. You know when you have to
24 get in the queue to get to the end point. So part of our
25 thought is removing the suspended projects or reducing the

1 suspension is also taking care of the current logjam, which
2 we need to do.

3 But we do ultimately see there's got to be a
4 clear path. And that's what gives us comfort that we can
5 continue to develop and be so successful.

6 COMMISSIONER KELLY: Thank you.

7 MR. ZADLO: I look at it a little bit
8 differently.

9 There's a lot of risk putting steel in the
10 ground. What we're talking here is studies, studies
11 performed in an office whereas the construction delays in
12 putting steel in the ground are numerous. There's an
13 infinite amount of things that could go wrong in the field.
14 And three years is reasonable.

15 To be frank, if you're building something and
16 something happens the workers -- are on strike or something
17 blows up and you need to replace equipment -- then you
18 should be afforded an extension. I'd go the other way.
19 There's problems with kicking people out of the queue.

20 And I'd point out a problem we had in PJM. PJM
21 has a rule that if you're mothballed longer than a year you
22 lose your ISA. We didn't know that. We mothballed one of
23 our facilities. We wanted to bring it up. It's in the
24 east. The RPM market's red hot. Well, we've been
25 mothballed for 16 months. We have to go back into the

1 queue.

2 You might inadvertently be creating another queue
3 problem because all of a sudden everybody has to go back to
4 the back of the line whereas you have viable projects that
5 are moving forward.

6 COMMISSIONER KELLY: Thanks, Kris.

7 Steve and Charles, the generators suggested -- I
8 think I heard the suggestion that as the queue numbers ramp
9 up you should be ramping up your resources to handle the
10 studies. Do you agree with that? If you do, can you do it?
11 Do you have the resources available? Do you have the money
12 available? Or would that not solve the problem?

13 MR. KOZEY: The profession is resource-
14 constrained, not just with the employer.

15 We have had major businesses who are consulting
16 businesses or consulting engineers who will do this: turn
17 down work from us because they have enough of this and they
18 have some other higher value projects or uses for their
19 staff. So it is not a question of Midwest ISO agreeing to
20 hire three more people in order to meet the deadlines, even
21 if we had failed to do so uniformly, that are provided for
22 in our tariff. We will hire outside folks.

23 There's been a suggestion that maybe some of
24 those outside folks for some studies could be from the
25 developers themselves. I think that would be problematic

1 unless very, very carefully done for everybody else to feel
2 that the result that came back on these studies from the
3 person that wishes to build a plant has the same
4 credibility, if you will, or independence from others.

5 COMMISSIONER KELLY: A final question from me and
6 then I'll let Ray ask his question.

7 It sounds like in the MISO area you're pretty far
8 along with the stakeholder process with a proposal to bring
9 to us to actually solve the problem retroactively, if you
10 will, and prospectively. What could we do that would best
11 help your process at this point?

12 MR. KOZEY: If you can stay briefed by your
13 Staff, the people who ultimately report what that
14 stakeholder process is ultimately considering so that by the
15 time we bring it to you the Staff is familiar with what's
16 likely to come, that would be a great help.

17 Also, Commissioner, when you said that maybe the
18 Commission would be entertaining company by company filings
19 as opposed to feeling it had to do a rulemaking, that's a
20 great help as well.

21 COMMISSIONER KELLY: Thank you.

22 Ray.

23 MR. PALMER: Thank you, Commissioner.

24 Following up on Commissioner Moeller's question
25 about limiting wind machines, for example, for a certain

1 grade of technology, are there certain aspects of the study
2 process or the qualification process that can be
3 standardized or automated in a way to make the actual
4 analysis go faster or be more robust in terms of a model
5 developed for a certain situation having to be restudied if
6 there is a generator who drops out for whatever reason?

7 MR. HENDRIX: Well, that may cut down on some
8 restudy.

9 I didn't speak of it before, but I don't think
10 limiting studies to one -- or developers to one particular
11 type of turbine would probably be overly discriminatory in
12 that a lot of these factories are built out and nobody can
13 get in line. But if you were to do that and were studying -
14 - all the turbines you're studying have a very similar
15 technology, then, yes, the restudies may not need to be
16 performed.

17 MR. PALMER: When you say 'similar technology,'
18 is there potentially some kind of performance specification
19 from the transmission system point of view that could be
20 enforced regardless of who's making the machine, or maybe
21 other differences in technology?

22 MR. HENDRIX: Right now -- I guess it's Order
23 661, and the local provisions are what we have right now.
24 But there's very specific requirements.

25 Wind issues that I've heard we don't address with

1 the local provisions are keeping up with the voltage
2 regulation during wind fluctuation when the turbines drop
3 off, regulating the voltage at that point. Some turbines
4 are better able to accommodate that than others. But yet
5 they may not have the SPC type devices to accommodate that.

6 MR. KOZEY: Mr. Palmer, we've really tried hard
7 not to be fuel-choosers. We've therefore also tried really
8 hard not to be equipment-choosers.

9 In addition to the megawatts of wind we've got
10 nuclear stuff in the queue, we've got base load coal plant
11 in the queue. And we haven't yet seen our job as having a
12 relevant portion that's picking technologies. It's more
13 towards interconnection to the grid of the technologies that
14 the owner wants to bring rather than us being an agency to
15 channel that.

16 We do rely on NERC, NAESB and other equipment
17 manufacturer requirements and protocols as thresholds for
18 what can be brought to us. But we don't pick preferred
19 technologies.

20 MR. HENDRIX: Also, the power factor requirements
21 for wind generators, it says that you can only apply these
22 if you can completely prove it in the studies. And, like I
23 say, for 8760 type situations it's hard to actually prove
24 that in the context of these situations. So possibly if
25 that requirement was lifted and we apply this plus or minus

1 95 percent power factor to all wind generators.

2 MR. KELLY: I just have one question.

3 We're calling this a queuing or intersection
4 problem. And yet there are really two aspects to
5 interconnection. One is what I'd call kind of limited local
6 interconnection, the ability to hook a generator up without
7 disturbing the grid in such a way that a neighboring
8 generator isn't disadvantaged electrically.

9 Then there's the second problem. You can't pour
10 a quart of water into a one-cup container. And if you're
11 trying to put too much new power into a local grid you have
12 to have the ability to export it. So you need to build
13 transmission that may be beyond the control of local
14 transmission operators to build.

15 Is it possible to say how much of the problems
16 we're seeing are the first type: pure, simply local
17 interconnection problems and doing those studies and how
18 much of it is the problem of export and really needing new
19 transmission as opposed to having a pure, simple
20 interconnection problem?

21 MR. KOZEY: If the person who was supposed to be
22 giving these remarks were here--

23 (Laughter.)

24 MR. KOZEY: Our vice president of transmission
25 asset management, he'd be better able, Kevin, to give you an

1 off-the-cuff answer. I'll prepare a written answer to your
2 question and we'll get that to you.

3 MR. HENDRIX: We do see as far as local
4 interconnection that we do have a big problem because we
5 will see one interconnect point, multiple -- three, four --
6 interconnection requests. And the first one is easy; the
7 second one may work, may not work. By the time the third
8 one comes along there's frequently a line. But then the
9 problem compounds with us.

10 Now the first one, he's on suspension. He
11 doesn't have any deliverability and we're still studying
12 him. He's got a queue position but he's there.

13 And then as far as the latter, the exports type
14 situation, we do have some export-constrained regions. And
15 even though we're studying just interconnection, we're just
16 studying small areas. But because of the entire area it's
17 more constrained. Then the same thing happens.

18 MR. FURMAN: Kevin, as you know, I'm not a
19 transmission planner but I play one on TV.

20 I had this exact conversation with one of our
21 electrical engineers last night. He was the one who urged
22 me to make the transmission point. If you had a bigger cup,
23 to use your metaphor, a lot of this problem would go away.
24 It is not the initial issue you addressed. It is largely
25 the latter, the lack of adequate transmission.

1 MR. GOSSELIN: If I could say, when I think about
2 the competitive energy zones or the CREZs, that's a regional
3 system planning. That's about trying to get in front of
4 where they expect the next regional resource to come from.
5 That's building the backbone. It's a combination at the end
6 of the day of local and regional. We see it just about
7 everywhere.

8 I can tell you the general constraint to our
9 projects is the interconnection capability and the local
10 thermal limits, not the regional. But it's becoming the
11 regional as we saturate the local.

12 MR. KOZEY: Kevin, I did find on page six that we
13 addressed your question in part.

14 It's not the whole queue but this Buffalo Ridge
15 area which is Minnesota, Iowa, South Dakota, kind of
16 together. There's about 22,000 megawatts of requests for
17 interconnection. But the outlet capacity plan for the
18 region by 2014 is under 2000 megawatts. There have to be
19 new major backbone facilities other than those that are
20 already being pursued by builders, transmission builders in
21 the region to make that a plausible place for the strong
22 wind resource that people have identified to get on the grid
23 at all.

24 I'll still give you a written answer.

25 COMMISSIONER KELLY: Do you have a 30-second

1 question, Ray?

2 MR. PALMER: Just real quick.

3 When you talk about those local drag through and
4 other issues around that, would it be more efficient to have
5 some grid level solutions such as a static bar compass here
6 that encompasses a wider area rather than looking at this
7 particular type of situation?

8 MR. HENDRIX: I believe the issues would be
9 turbine local area wind farm specific. If it's not a
10 turbine that can produce more, they don't have an SPC,
11 that's where we're studying.

12 I believe wind farms would be okay.

13 MR. GRAMLICH: Mr. Palmer, I believe first of all
14 many of these questions were raised two or three years ago
15 and Order 661 I think resolved many of them.

16 On that question I think the reasoning in 661 is
17 often the solution is not most efficient at putting it on
18 the generator but there is a more efficient system solution.
19 That's why the standard in place on reactor power is a
20 demonstration of whether it's the right solution and whether
21 it's needed from the generator.

22 COMMISSIONER KELLY: Thank you.

23 I understand Clair Muller wasn't able to be here
24 today. And I do want to take the opportunity to publicly
25 acknowledge his significant contributions in this area. I

1 know that he has been up front, a leader, not only in
2 understanding what the problem is but in proposing
3 solutions. And although I hear from a lot of people who are
4 frustrated with the queue process, I don't hear any
5 frustration with Clair. So if you'd pass on our thanks to
6 him.

7 I'd like to invite all of today's panelists --
8 past and future -- to the eleventh floor for lunch and to
9 let the rest of the audience know the Sunrise Caf is open
10 and waiting for your business.

11 (Laughter.)

12 COMMISSIONER KELLY: We'll reconvene at 1:30.

13 (Whereupon, at 12:35 p.m., the technical
14 conference was recessed, to reconvene at 1:30 p.m., this
15 same day.)

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A F T E R N O O N S E S S I O N

(1:35 p.m.)

COMMISSIONER KELLY: We've reconvened.

Today we have Armando Perez, vice president, planning and infrastructure development, California Independent System Operator, Elliot Mainzer, manager of transmission policy and strategy, Bonneville Power Administration, Dennis Desmarais, director of transmission service, PacifiCorp, Ronald Litzinger, senior vice president, transmission and distribution, Southern California Edison Company, Jan Smutny-Jones, executive director, Independent Energy Producers Association Joshua Bar-Lev, vice president for regulatory affairs, Brightsource Energy, and William Engelbrecht, vice president, planning and analysis, Sempra Generation.

Thank you all very much. We'll follow the same protocol as we did with the last panel. We'll take five minutes each for you to give us your remarks and we'll follow up with questions and answers.

Mr. Perez.

MR. PEREZ: Good afternoon. Thank you very much for pronouncing my name correctly. It's such a nice experience.

Transmission providers and generation developers across the country are now experiencing frustration and

1 significant hurdles to bring on their new resources. The
2 current interconnection problems in the ISO footprint are in
3 large part centered on the unprecedented proliferation in
4 the number of interconnection requests driven by aggressive
5 state renewable portfolio standards.

6 Since implementing the LGIP on July 1, 2005
7 through November 30 of '07 we've received 212
8 interconnection requests totaling 65,645 megawatts.
9 Approximately 40,000 megawatts of those are renewable.

10 To give you an idea of what the problem really
11 is, in January of '06 we had 5700 and in January of '07 we
12 doubled to 11,000. As of November we quadrupled to 40,000.

13 It's interesting to note that that amount of
14 megawatt is trying to serve a peak load of 50,270. So the
15 large number of requests and the high level of capacity in
16 the CAISO queue have exposed certain deficiencies in the
17 current serial study process.

18 We've identified many of those deficiencies. And
19 I want to address several particular problems because it
20 will impinge on this process of solutions.

21 The queue process is too easy to join and too
22 easy to abstain and withdraw from. Simply put, developers
23 can come and go without any significant commitment and with
24 only minimum financial risk. Low barriers to entry and
25 inadequate progress milestones appear to allow unacceptably

1 high levels of speculative projects that ultimately withdraw
2 from the queue or linger in the queue by exercising their
3 current right to suspend for a three-year period.

4 Many of those projects may not have a buyer or
5 financing, or any realistic prospect of control or oversight
6 or an ability to timely obtain the necessary equipment to
7 fulfill its stated on-line date.

8 When a queue is populated by a large number of
9 projects that lack commercial viability it leads to
10 significant delays and uncertainties in the process.
11 Uncertainty is particularly problematic. Project developers
12 do not have a clear understanding of their ultimate
13 transmission costs and that impairs their ability to obtain
14 financing.

15 Financing difficulties are exacerbated by the
16 fact that under the serial study approach these
17 disproportionately high costs may be allocated to the
18 developer unlucky enough to be assigned the queue position
19 that triggers the necessary, yet lumpy, upgrades.

20 Other projects located in the same electrically
21 connected region may benefit from the capacity lumpiness by
22 having little or no upgrade costs. Moreover, both project
23 developers and transmission providers can have little
24 confidence in completed study results knowing that those
25 results are likely to be rendered irrelevant by the

1 withdrawal of higher-queued projects.

2 While the problems with the management of the
3 current queue process should not be underestimated and
4 clearly must be addressed by the Commission to facilitate
5 access to renewable resources, these problems should not be
6 singled out as an excuse for failing to meet California RPS
7 goals.

8 Following close cooperation with the CPUC, the
9 CAISO approved participating transmission owners and other
10 stakeholders, two network transmission projects intended to
11 facilitate renewable resource development. The Tehachapi
12 Renewable Transmission Project will provide access to 4500
13 megawatts of wind generation, and the Sunrise project, which
14 will make approximately 1800 megawatts of geothermal and 900
15 megawatts of solar. These projects represent a potential
16 for approximately 29,000 gigawatt hours from renewable
17 resources, certainly enough to meet California's 20 percent
18 goal.

19 The queue management process needs reformation.
20 We'll be working with the CPUC and the market participants
21 to develop for Commission consideration potential solutions
22 to address this, as well as establish a basis for
23 effectively going forward. The basic objective is to reform
24 the queue so that the study outcomes are more realistic and
25 ensure more efficient interconnection of resources to match

1 system needs.

2 First the ISO must utilize existing clustering or
3 group study authority. The CAISO envisions performing group
4 studies for requests with similar electrical impacts and
5 assigning upgrade costs to the projects on a pro rata or
6 similar basis. Assigning costs in such a manner will more
7 equitably spread cost responsibility for upgrades and
8 mitigate the negative effects of the current 'but for'
9 allocation approach.

10 Moreover, pro rata cost allocation should greatly
11 reduce but not wholly eliminate the expense and time
12 implications of restudies caused by generator withdrawals.
13 Clustering without further queue reforms will not by itself
14 effectively address the fundamental problems of reducing the
15 unrealistic level of requests and capacity seeking
16 information. As such, the second set of reforms must adjust
17 the current approach by requiring greater developer
18 commitment.

19 There are many potential permutations of such
20 adjustments that the Commission should consider. The CAISO
21 believes several adjustments will likely be necessary. For
22 example --

23 MR. PALMER: Mr. Perez, can you summarize very
24 quickly?

25 MR. PEREZ: I'll stop right now. We can talk

1 about that more later.

2 But I just want to note in conclusion, thank you
3 for allowing me to be here. In the next couple of months
4 somebody should step in my office and say that, 'I'm from
5 the Federal Government. I'm here to help.'

6 Thank you.

7 (Laughter.)

8 COMMISSIONER KELLY: Mr. Mainzer.

9 MR. MAINZER: Thank you for the opportunity to
10 comment today. I'm going to address the open study process
11 that BPA has developed in the Pacific Northwest and why we
12 think that the proposal, while certainly not a panacea, does
13 address some of the more intractable problems associated
14 with transmission service request queues.

15 Like other transmission providers faced with
16 large geographical footprints and growing loads and meeting
17 portfolio standards, it's also become clear to BPA that we
18 need a mechanism to identify the most mature and viable
19 requests in the transmission service queue. In Order 890
20 the Commission required transmission providers to conduct
21 studies if requested by customers and indeed feasible.

22 At BPA we're taking clustering a step further and
23 embracing it as our basic way of doing business to support
24 system expansion. Borrowing from the national gas industry
25 and relying on several transmission providers who have

1 experimented with a similar approach, we have developed an
2 open season process for the BPA transmission network.

3 During the network open season we will offer all
4 parties with a transmission service request in the BPA
5 network queue an opportunity to sign a precedent agreement.
6 A precedent agreement is a binding contractual commitment to
7 take transmission service from BPA contingent on BPA's
8 ability to deliver that service at our embedded cost rate
9 and complete required environmental work prior to
10 construction of any required new facilities. We are
11 structuring the precedent agreement as a good faith offer of
12 transmission service.

13 Those parties who do not sign precedent
14 agreements will have their requests withdrawn from the
15 queue. BPA will then aggregate all of the requests of
16 signed precedent agreements and conduct a cluster study
17 which will monitor the impact of multiple new generationally
18 dispersed resources to disperse future loads and expected
19 low growth, which many new facilities will be required to
20 accommodate the requests as well as the timing and cost of
21 the new facilities.

22 With signed precedent agreements and a completed
23 cluster study, BPA will then conduct a financial evaluation
24 as part of a new commercial infrastructure policy. That is
25 also then heavily vetted with regional stakeholders.

1 This financial analysis will determine whether
2 there is sufficient present value in the form of contractual
3 commitments to take long term service plus future beneficial
4 use and collateral reliability benefits to proceed with
5 construction of new facilities and offer the new ATC at
6 BPA's embedded cost rate.

7 For BPA this commercial infrastructure policy
8 marks a shift away from the requirement to generators to
9 provide up front financing for generation transmission lines
10 and addresses the longstanding problems associated with such
11 an approach. Once BPA has met the terms of the precedent
12 agreement offering transmission service at embedded cost at
13 completion of environmental work in support of the new
14 lines, it will execute agreements for the transmission
15 service in the customers' original transmission service
16 requests.

17 There are strong indications that two major
18 upgrades -- the Interstate 5 corridor linking Portland and
19 Seattle and the line connecting to the high wind resource
20 areas in eastern Oregon and Washington -- will be required
21 to accommodate all executed agreements. We've been looking
22 at those lines for quite a long time.

23 We're in the process of finalizing terms and
24 conditions for the precedent agreement through a stakeholder
25 process. Although close, we're still working on a few final

1 issues related to minimum contract terms and how conditional
2 firm service might be integrated into the open season
3 process is a bridge product between requested service
4 commencement dates and the time when construction of new
5 facilities is complete.

6 While recognizing the rights of parties to submit
7 requests of any duration of at least one year in length,
8 we're structuring the precedent agreement to incentivize
9 contracts at least ten years in duration. We're
10 deliberately minimizing the amount and complexity of
11 allocating study costs in our initial network open season to
12 minimize obstacles to widespread participation.

13 We have yet to design the process that's
14 associated with developing an incremental cost rate. We are
15 unable to offer service at our embedded cost. That can be
16 required of additional work left.

17 Our plan is to describe our network open season
18 cluster study project in our 890 tariff, which will be filed
19 in early 2008. We're moving aggressively and aiming to
20 conduct our first network open season in the first half of
21 2008. It will be a repeatable process coordinated with
22 other regional transmission and integrated resource planning
23 efforts. It will to some extent replace and to some extent
24 complement the existing process for conducting system
25 facilities studies.

1 To emphasize, this process is primarily focused
2 on the transmission service request queue. Out in the
3 Northwest we've certainly had some challenges associated
4 with the LGIA but we've been reasonably successful in the
5 last couple of years. We've built over a \$100 million
6 interconnection infrastructure. We're going to have 1450
7 megawatts of wind energy in the BPA control area by this
8 winter, putting in another 700 this year.

9 A big pressure point this year is focused on the
10 transmission service requests. We figure in future
11 iterations, especially learning quite a bit this morning
12 about LGIA, we'll continue to address that as well.

13 Thank you for the opportunity to comment.

14 COMMISSIONER KELLY: Mr. Desmarais.

15 MR. DESMARAIS: Thank you for allowing
16 PacifiCorp the opportunity to participate in today's
17 conference and to present our views on existing practices
18 and potential alternative practices and enhancing queue
19 management.

20 PacifiCorp welcomes the Commission's invitation
21 to address current queue management challenges while still
22 honoring the foundation and goals under Order Number 2003.
23 PacifiCorp approaches this issue as both a transmission
24 provider operating one of the largest investor-owned open
25 access transmission systems in the western United States,

1 and as a load-serving entity who are required by our state
2 regulators to have significant renewable resources over
3 time.

4 With this perspective in mind I'd like to offer
5 several observations about the state of interconnection
6 queue management on our system and put forward several
7 recommendations as the Commission considers possible changes
8 to the standard queue management approach laid out in Order
9 Number 2003.

10 Compared to the interconnection logjam and other
11 challenges that transmission providers and project
12 developers alike are facing in certain regions,
13 PacificCorp's situation can best be described as stressed
14 but manageable. In our view queue management largely works
15 as Order 2003 intended, particularly with respect to long
16 lead time resources and our interconnection customer base is
17 generally satisfied with the current tariff practice.

18 To put our views in context, since the
19 implementation of Order 2003 we have interconnected 22
20 generating facilities totaling 2200 megawatts. Most but not
21 all of that development consisted of convention generation
22 sources that were almost exclusively being developed on our
23 system at the time Order Number 2003 was issued.

24 More recently, however, we witnessed a dynamic
25 evolution in the makeup, volume and nature of our queue

1 requests. The number of large generation interconnection
2 requests in our six-state service territory has nearly
3 tripled in two years, from 30 at the end of 2005 to 78
4 currently, totaling 10,000 megawatts. Our queue is now
5 predominantly wind, 75 percent, followed by natural gas and
6 the remainder of the resources including coal.

7 With that said, since May 2006 we have still
8 managed to complete more than 90 percent of our feasibility
9 system impact and facilities studies within Order 2003 and
10 tariff prescribed guidelines. This is not to say that our
11 customers would not like to have them completed faster; we
12 know they would. As you might expect, we have had instances
13 where our customers desire an even faster process.

14 However, PacificCorp is fortunate not to share
15 the queue management struggles experienced elsewhere in
16 meeting the tariff prescribed timelines. We believe this is
17 in large part due to the nature of our expansive service
18 territory in the west. The built-in flexibility provided by
19 Order 2003 and the changes we've made to our transmission
20 business practices offer some flexibility to shorten the
21 overall process.

22 Three efficiency-enhancing accommodations allowed
23 by Order 2003 are particularly worth highlighting. One, the
24 option to skip a feasibility study when requested by the
25 interconnection customer; two, executing an engineering and

1 procurement agreement prior to the facility's study and
2 therefore prior to execution of a large generator
3 interconnect agreement; three, allowing the interconnection
4 customer to build facilities -- typically interconnection
5 substations -- that PacificCorp will own.

6 Such accommodations generally provide customers
7 with the ability to accelerate the interconnection process
8 to meet projected in-service dates and the ability to
9 appropriately accept construction risks where the
10 transmission provider is not able to meet the desired in-
11 service date.

12 In our view the uniform first come-first served
13 approach generally remains reasonable as a default industry
14 practice. Under the sequential study process the withdrawal
15 of higher queued requests has not significantly hampered our
16 restudy efforts for lower queued projects.

17 Certainly it takes resources to study all
18 requests. But the reality is that many projects will
19 withdraw. We do not know which requests are going to go
20 forward and which ones will withdraw but assume higher
21 queued projects were in play as we were performing the
22 studies for lower queued projects. And we adjust if
23 requirements change.

24 Among the alternatives receiving attention as
25 potential improvements, PacificCorp has had only limited

1 success evaluating interconnection requests with a cluster-
2 like approach. For this reason PacificCorp is not
3 supportive of the imposition of any mandatory requirements
4 for clustering interconnection requests or the imposition of
5 rigid time periods or geographic cluster study requirements,
6 proximity study cluster requirements, which could just as
7 easily backfire by excluding or including certain projects
8 that make sense to be studied with others.

9 Likewise, PacificCorp does not see any advantages
10 to requiring open season-like processes in the
11 interconnection queue. The biggest challenge we see with
12 open seasons is completing them in a timely manner and
13 getting interested parties to make commitments while
14 conducting restudies as queue customers drop out.

15 In short, our queue management experience makes
16 us very skeptical that material revisions to the
17 Commission's current Order 2003 standardized tariff approach
18 would yield superior customer service and outcomes on all
19 transmission providers' systems. That said, minor
20 adjustments such as accepting proposals that deviate from a
21 standard queue process and encourage transmission providers
22 and project developers to fully avail themselves of the
23 beneficial tariff flexibilities provided under Order 2003
24 are two practical ways the Commission could accelerate.

25 Again, thank you for the chance to contribute our

1 perspective. I look forward to answering any questions you
2 may have.

3 COMMISSIONER KELLY: Thank you, Mr. Desmarais.
4 Ron Litzinger.

5 MR. LITZINGER: Good afternoon, Commissioners and
6 Staff.

7 Southern California Edison also appreciates your
8 convening this technical conference to consider the
9 challenges presented to everyone by the current queue
10 process. As you've heard from several others this morning,
11 it does hinder us as well to get generators interconnected
12 in a timely manner.

13 We've provided the Commissioners -- and we have
14 copies available in the audience -- our queue situation is a
15 subset of the overall Cal ISO queue. But you can see within
16 our service territory we have over 40,000 megawatts of new
17 generation capacity in our queue, which is nearly double our
18 peak demand of 23,300 megawatts, which we set this past
19 summer, and well above the latest ten year load forecast
20 prepared by the California Energy Commission.

21 Southern California Edison, along with the
22 California ISO, has been proactive in developing major
23 transmission projects and addressing prospective generator
24 interconnection issues arising during the process, such as
25 in the case of our 4500 megawatt Tehachapi renewable

1 transmission project. In fact, we intend to start
2 construction on this project in January 2008.

3 As you have heard already today, despite such
4 efforts the sheer volume of interconnection requests and the
5 many interdependencies among the projects has rendered the
6 current serial interconnection study process difficult.
7 Both generators and owners are frustrated with the current
8 process.

9 Under the current serial study process generators
10 have trouble financing and planning their projects because
11 of lack of certainty regarding their upfront cost
12 responsibility. Transmission owners are equally concerned
13 that completed interconnection studies can quickly become
14 obsolete due to withdrawals of the higher queued projects
15 and the subsequent restudies, which we demonstrated in the
16 second slide, our point here being with restudies it often
17 becomes toward the tail end of the deadlines and we press
18 against those deadlines and take too long.

19 Southern California Edison has been working with
20 the California ISO, the California Public Utilities
21 Commission and the other investor-owned utilities in
22 California to develop a solution that will work in
23 California. In the near term SCE believes that systematic
24 implementation of clustering appears to be the best solution
25 to streamlining the process. I emphasize, however, that to

1 be most effective clustering needs to be implemented both on
2 a retroactive basis and on a prospective basis.

3 I'll address those here.

4 For a glimpse into what SCE sees as far as
5 solutions to the problem, we envision a forward clustering
6 solution that allocates cost responsibility on a pro rata
7 basis within each cluster so as to more equitably spread the
8 responsibility for network upgrade costs among all projects
9 that benefit from the capacity. Pro rata allocation
10 mitigates the potential for gaming with the 'who triggers
11 pays' allocation methodology or reducing the need for
12 numerous restudies should a generator withdraw from the
13 cluster.

14 Generators would receive credit back upon
15 commercial operations, similar to the current practice.

16 Under the forward clustering solution
17 transmission owners would retain the option to upfront fund
18 the networks. Under the retroactive solution SCE also
19 believes the transmission owners should likewise retain the
20 option to up-front fund on a case by case basis if specific
21 criteria are met, just as SCE agreed to upfront fund the two
22 billion dollar Tehachapi project.

23 Southern California expects that retroactive and
24 prospective clustering solutions may require FERC approval
25 of certain tariff changes, possibly even a waiver of certain

1 tariff provisions such as the case in the developing of our
2 transmission plan of service for Tehachapi, where ISO did
3 request a one-time retroactive cluster waiver.

4 We will continue to work with the stakeholder
5 group and hope to have some proposals in the spring as well.

6 SCE believes that a regional solution for
7 California is appropriate and does not see the need for a
8 national solution. We think that all situations are
9 different.

10 I would also like to highlight what the
11 California Public Utility Commission pointed out earlier.
12 The California Renewable Energy Transmission Initiative --
13 or RETI -- which serves many of the attributes of the CREZ
14 initiative in Texas, we feel that this type of an approach
15 will be most effective.

16 Again, SCE appreciates the opportunity and will
17 be happy to take your questions at the end.

18 COMMISSIONER KELLY: Thank you, Mr. Litzinger.

19 Mr. Smutny-Jones is next.

20 MR. SMUTNY-JONES: Thank you very much. I
21 appreciate the invitation to be here today.

22 I was invited I guess to be the ghost of
23 Christmas past. IEP represents the entire 300 megawatts of
24 coal in California. So we wear many hats. We have been
25 doing this for about 25 years; I've been there about 20. So

1 this topic is not new to us; it's just taken a different
2 form.

3 As an opening observation, a distinction between
4 the glass being half full or half empty and everybody
5 concluding that it's not large enough, it's clear that we
6 need additional transmission to be built. If in fact I'm
7 speaking now of renewables, if we're to meet our global
8 climate change goals in the IPS, I believe that probably
9 exists in other regions as well.

10 I think the efforts afoot here at RETI and
11 elsewhere to build the transmission into areas -- and we
12 know where those areas are, frankly -- is a good one. This
13 is no different than the transmission lines that were built
14 in the Northwest to bring hydro resources to California, or
15 the lines that were built to Four Corners to bring coal in
16 from New Mexico. This is a good effort and the direction to
17 go. The Tehachapi approach we think should be explored
18 further on this.

19 With respect to the existing queue -- this is the
20 second point I want to make -- it's a matter of existing
21 policy if a first in-first out -- I think everyone has kind
22 of talked about that a little today. We ran into some
23 problems here. There may be multiple reasons why people
24 have multiple sites. Renewable developers are looking for
25 all kinds of places where they may be able to develop their

1 projects. It's not always a given that they have the
2 optimal site. They may have environmental review
3 requirements with having alternate sites. So there may be
4 all kinds of reasons for that.

5 In addition to that, one man's phantom is another
6 man's dream. It's really difficult if you get them to try
7 to sort this out, you know, woe unto you. There is really
8 no objective way other than what I will recommend in a few
9 minutes.

10 With respect to the property issue -- and I
11 thought that was kind of interesting -- one of the questions
12 I have been toying with is what does that really mean. It
13 sort of seems to me that having a property right in a queue
14 for an interconnection to a transmission line that doesn't
15 exist is sort of like owning land on the moon. I have an
16 acre on there. I don't know what comes out of that.

17 But the point is we've got to be careful about
18 how we mess with the existing queue, to be quite candid with
19 you. Most of my members support the LGIP. They think that
20 has actually been progress and believe some of the pre-LGIP
21 projects that are on the queue in California right now need
22 to be moved into that queue so we can basically move things
23 forward.

24 The question of managing that queue is not new to
25 California either. The concept has been here of throwing

1 milestones out there. In the early queue updates we found
2 out the first in-first out created problems. We came up
3 with a milestone procedure where money and milestones
4 actually mattered.

5 The other data point there that's very important
6 is that the administrator is actually administering the
7 queue properly. And I don't think in this case that would
8 be a problem.

9 With respect to going forward in that queue
10 management you basically need to design the milestone that
11 has a development plan around it so you basically have your
12 data points of what they're supposed to do, some specific
13 earnest money or revocable letter of credit that needs to be
14 real and may or may not need to escalate over time. You
15 need basically a triggering mechanism of what it needs to
16 fairly meet a milestone, which is either increase the
17 earnest money or forfeit your place in line.

18 You also need -- basically there are reasons why
19 people may feel that have nothing to do with their efforts.
20 So those are the elements you're going to need for any
21 basically milestone procedure there.

22 In closing here there's a couple of other data
23 points that I was asked to share with you. One is my
24 members do support, Commissioner Kelly, your observation
25 that perhaps third party studies would be important here in

1 terms of adding additional resources. There's issues that
2 have been used with respect to the transparency of the base
3 load cases, making sure they're available to third party
4 consultants, and the ability to basically cluster and
5 engineer those types of projects.

6 Lastly, I just kind of want to point out, again
7 going into Mr. Peabody's Wayback Machine when we were
8 putting QFs in place, a number of the generators actually
9 built their cogeneration system. We had cogenerators
10 building up tests out at Stockton, the Salton Sea, all that
11 was built. And there were new resources coming in at
12 Tehachapi. So there's some precedent for third parties
13 actually being engaged in this. Obviously, everybody should
14 be facing the constraints so only so many people are
15 available to do this.

16 One of the problems is there's not enough
17 resources, not enough hands on this. Perhaps coming up with
18 standards and coming up with these studies is the right
19 direction to go.

20 With that, I'm ten seconds over. So I'll
21 conclude.

22 Thank you.

23 COMMISSIONER KELLY: Thank you very much.

24 Joshua Bar-Lev.

25 MR. BAR-LEV: I'm not sure how much more I can

1 add to what Jan just said.

2 I represent Brightsource and other solar
3 developers and a number of wind developers through the
4 California Wind Energy Association. We've been working
5 together to develop a common sense solution to the problems
6 associated with this mess in California.

7 Our solution is summarized in the handout that
8 we've developed, developed particularly by Dariush
9 Shirmuhamadi, right behind me, and who can answer some
10 questions if we get to that level of detail. One is the
11 actual queue problem. The other is sort of the actual
12 larger problem.

13 I guess I'd like to start with the metaphor Jan
14 just used. I was there at PG&E after the great inter-tie
15 was built between the Northwest and California. I can tell
16 you that was planned and built, if my memory is correct, in
17 all of three years. It's a monumental achievement in the
18 west. We're all proud of it. But it was done in three
19 years.

20 The important thing about it is it was done not
21 from the bottom-up but from the top-down. There was a
22 decision made that if you build the highway it will be used,
23 it will be needed. That was a very important principle to
24 have operable at that time.

25 Here what we're doing is we're designing

1 everything from the bottoms-up. I think that's just a basic
2 flaw in the system because what that means ultimately is
3 that every time someone comes in that creates the need for a
4 new study. Every time someone opts out that creates a new
5 cost allocation and a new study.

6 This is taking months and months and a giant
7 amount of money for an asset that is ultimately four to six
8 percent -- I've heard seven percent -- of our total electric
9 bill, and one that we know we're going to end up using:
10 transmission. We should really not be approaching it this
11 way.

12 You know that the study process is complex. It's
13 reiterative. It's duplicative. And it doesn't even match
14 what's going on right now by the utilities for their system
15 studies. So the first solution we think needs to be made is
16 that the actual transmission upgrades needed to interconnect
17 projects should be planned through a regional transmission
18 planning process so there's no difference between the
19 developers and the utilities. This would allow the
20 interconnect study process to be significantly streamlined
21 and you would establish cost responsibility more or less
22 definitively.

23 I'll get to costs in a minute because I believe
24 ultimately the costs should be socialized.

25 In the short-term we've got to create an HOV

1 lane. We've got to really be creative on this. Folks
2 should grant a one-time go into the queue right now. It
3 needs to create a one-time waiver of existing queue rules to
4 allow for retroactive clustering.

5 Generators who are willing to sign an
6 interconnect agreement resulting from that and making an
7 earnest money deposit should receive a timely
8 interconnection agreement. The major benefits of this
9 approach would be that we could clear the queue within six
10 months to a year. And when I say six months to a year, we
11 should be able to reach the point where everyone's signed an
12 interconnection agreement within one year from right now,
13 not three years from right now.

14 When I say timing certainty, we need to have
15 utilities and the ISO committing to dates, committing to
16 budgets, and having the entire process transparent. We
17 should be able to do the restudy resulting from the
18 retroactive clustering in three to six months. We shouldn't
19 be then redoing the study, all again from the principle that
20 this is going to be a very valuable asset. We don't need to
21 study it and restudy it and restudy it and restudy it.

22 I guess we've all sort of agreed here. And I
23 guess I'd like to make one important point. That is that
24 the coordination required among the various government
25 agencies here -- local, state and federal -- is enormous but

1 quite doable.

2 If you look at the chart that I drew, which is in
3 front of you and tries to show the interrelationships, it's
4 very important to pay attention to that chart. What it
5 shows is the truck is in the middle of a multi-agency
6 process here where, to use Bill Graham's famous line after
7 the Loma Prieta earthquake, it's everybody's fault. And we
8 all have to contribute to the solution of this.

9 So that once, for example -- I don't know whether
10 Larry is here, Larry Chaset -- once we actually get the
11 study done, once we actually determine -- once everyone
12 signs and we have to go into the Commission, the Public
13 Utilities Commission for a CPCN, there's no reason we
14 shouldn't be going in there with a cluster CPCN. And
15 there's no reason why we can't try to shave off perhaps a
16 year off of that process. If we're able to do all those
17 things we will actually clear the HOV lane.

18 Thank you very much.

19 COMMISSIONER KELLY: Thank you.

20 William Engelbrecht.

21 MR. ENGELBRECHT: Thank you, Commissioners, for
22 having Sempra Generation speak today on this very important
23 topic. Sempra Generation is traditionally a greenfield
24 combined cycle generator and developer. However, over the
25 last 18 months we've really been focusing on wind and solar

1 development within Sempra Generation.

2 A few observations about the queuing approach.
3 We believe it is broken and needs fixing. There's far too
4 many phantom projects clogging the queue. This hampers the
5 study effort as well as queue management efforts.

6 As you've heard from Army at the other end of the
7 panel here, it's far too easy to stay in the queue -- to get
8 into the queue, and also to stay in the queue today.

9 The other thing. On the Cal ISO, depending on
10 when an interconnector put in their queue requests, there's
11 three to four different classes of queue rules depending on
12 when you enter the queue. That's not a good thing.

13 Also, if you choose to move forward as an
14 interconnector today you have no real interconnection cost
15 certainty as long as there's others in the queue ahead of
16 you. They could be real or phantom ahead of you. And if
17 some day they develop you could be sent a bill ten years
18 from now potentially. That's on the far out, maybe, but
19 there's no cost certainty when you interconnect today. We
20 think that needs to be changed.

21 One of the biggest issues today in running the
22 interconnection studies is they're done on a project by
23 project serially performed basis. When you have that it
24 leads to tremendous inefficiency and ineffectiveness. We
25 suggest they be done using a cluster approach.

1 If you have, say, a 1500 megawatt cluster you
2 don't just study the 1500 megawatt level, you study
3 different tiers getting up to 1500 megawatts so you know for
4 every incremental transmission facility addition, you know
5 the cost of that addition, the incremental megawatts it buys
6 you, all the way up to the top of the cluster. That way as
7 projects drop off, which they inevitably will, you're not
8 stuck knowing, okay, we know what we need to do for 1500
9 megawatts but what do we do for 800 megawatts.

10 This way, by doing a tiered approach, you know
11 all the costs of all the megawatts all the way up the tier.
12 We would suggest that enhancement to the cluster approach.
13 We think it's a much more effective way to do studies.

14 Several other suggested interconnection queue
15 changes. We do believe that there are more robust
16 milestones that are necessary in order to eliminate phantom
17 projects from getting in the queue and staying in the queue
18 for what seems like forever. These additional milestones
19 could be site-control, active permitting, those kinds of
20 things that you've heard earlier. They could be increased
21 deposits from the developers.

22 But the key message I want to portray here is we
23 need to have a process that rewards real projects and gets
24 rid of phantom projects or speculative projects. In a way
25 all projects are speculative up to a point. But there are

1 many in the queue today that are there for one reason:
2 that's to have a speculative position that they might some
3 day monetize to someone else.

4 We do think all projects in the queue need to be
5 treated with the same set of rules and not a different set
6 of rules like currently in the Cal ISO queue. We think that
7 interconnection costs should be allocated on a per-tier and
8 possibly a pro-rata basis. It's for those projects that are
9 ready to commit and move forward.

10 If I've got an interconnection request and I've
11 gone through the process and I'm ready to commit to my
12 project and move forward I should be able to do that with
13 price certainty on that interconnect. If a competitor of
14 mine isn't at that point yet they can still stay in the
15 queue in their current position but they shouldn't be
16 allowed to sit there and block real projects from getting to
17 the finish line.

18 When we look around the country, especially in
19 California where we're based, the different RPFs goals,
20 which are substantial today, but we see them growing over
21 time. Those goals are only going to be met if real
22 renewable projects get put in the ground. If we don't have
23 an interconnection process that allows real projects to
24 succeed and move forward the RPFs levels as the Federal
25 Government, California, and other states are setting out are

1 not going to be achieved. There's no possible way they'll
2 be achieved.

3 That's really the key message I want to deliver.
4 I thank you very much for having us today. We stand ready
5 to answer questions.

6 COMMISSIONER KELLY: Thank you very much.

7 We have a significant amount of time for
8 questions.

9 Commissioner Wellinghoff.

10 COMMISSIONER WELLINGHOFF: Thank you,
11 Commissioner Kelly.

12 Mr. Bar-Lev, I was very interested in your
13 proposal and I didn't get a copy of your handout. So if you
14 could make sure afterwards -- maybe you could pass it
15 around. If you've got an extra copy I'd appreciate that.

16 For whatever reason, all the papers here didn't
17 seem to be among them.

18 But anyway, I wonder if I could get -- I think
19 everybody in the California group seems to pretty much agree
20 with the clustering concept. But I think Mr. Bar-Lev put it
21 into a lot more detail. I'd be interested in having Mr.
22 Smutny-Jones, Mr. Litzinger, and Mr. Mainzer comment on Mr.
23 Bar-Lev's proposal.

24 MR. LITZINGER: As I understood the proposal in
25 talking a little bit over lunch as well, it is similar to

1 what we are thinking about within the READY process where
2 you're going and you're studying areas that you realize
3 where generation is going to develop and going through and
4 developing transmission plans in and around that. And so
5 it's very similar to clustering.

6 I think we would be willing to study it more as
7 we go through our stakeholder process.

8 COMMISSIONER WELLINGHOFF: Mr. Smutny-Jones?

9 MR. SMUTNY-JONES: Without endorsing it
10 completely because there's undoubtedly elements that members
11 of mine might have disagreements on, I think generally
12 speaking it's the right approach.

13 The fact of the matter is if you look at the
14 areas we're talking about while it looks really big on the
15 map, the areas where you can commercially develop geothermal
16 isn't a specific area, the area where you basically have
17 areas that can commercially develop wind as a specific area,
18 areas that you have insolation and the proper land patterns
19 for large solar development are only in certain areas. It's
20 basically conducive to try to bring in the areas where you
21 know where the resources are and try to determine some sort
22 of structure for developing that.

23 Actually the tiered approach that he's laying out
24 there also is interesting from the standpoint of as projects
25 fall off because developers determine that they don't want

1 to or cannot progress with those projects you may end up
2 designing the system in smaller increments without having to
3 go back to yet another study.

4 COMMISSIONER WELLINGHOFF: Mr. Mainzer.

5 MR. MAINZER: I wouldn't have too much more to
6 add. Those have captured my basic sentiments.

7 COMMISSIONER WELLINGHOFF: Let me understand the
8 stakeholder process in California. I think Mr. Litzinger
9 talked about a proposal in the spring. Is there any way to
10 get this to us quicker?

11 MR. PEREZ: We believe the stakeholder process,
12 the full stakeholder process has not started yet. We're
13 working on a select group of PTOs and the PUCs and the CUCs.
14 We think the stakeholder process will probably start early
15 next year and it should not take a tremendous amount of
16 time.

17 If you press me for an answer I'd say some time
18 prior to summer of '08. But if you want it sooner than that
19 --

20 COMMISSIONER WELLINGHOFF: Mr. Perez, let me
21 apologize. I was dyslexic in looking at your association.

22 If you could comment on Mr. Bar-Lev's proposal
23 rather than Bonneville it might be a good thing.

24 MR. PEREZ: I'd be happy to.

25 Basically I'm going to agree with Mr. Chaset this

1 morning. The way we're looking at the process is a three-
2 stage process.

3 Stage one, you look at all the areas to determine
4 what those areas are capable of doing in terms of
5 generation. You look at it at what I call the 50,000 foot
6 level. You look at the amount of transmission that is
7 required as a minimum to get that generation to market.
8 Third, you take all of that and bring it into the ISO
9 regular transmission process where things get down to the
10 fine detail.

11 We're pretty much in agreement.

12 COMMISSIONER WELLINGHOFF: Mr. Bar-Lev.

13 MR. BAR-LEV: I think actually we're all going in
14 the same direction. But I just have to emphasize that the
15 details are everything here. For example we're all agreeing
16 there needs to be clustering. Now the question is once the
17 data is collected is it going to be two years for that data
18 to be analyzed and is it going to be another year for the
19 cost allocation to take place. Or can we condense down the
20 time.

21 On the cost alone I would say when the Commission
22 agreed or approved the third alternative proposal by the ISO
23 half a year ago or so, I thought that was tremendous. I
24 thought, though, that it didn't go far enough.

25 We should be taking the whole issue of everyone's

1 cost responsibility. And actually if we eliminated that
2 because once we get the clusters then everyone is agreeing
3 these are valuable and needed. If they're valuable and
4 needed why are we bickering and studying exactly everyone's
5 cost responsibility and how much incremental time will that
6 take.

7 If we knew we could get the studies down to the
8 right amount and if we could either eliminate the particular
9 cost allocation or get into an easy formula of some time, I
10 think that would go a long way to shortening -- to get that
11 HOV lane built.

12 COMMISSIONER WELLINGHOFF: Do any of the
13 California representatives disagree with Mr. Bar-Lev's
14 aspect of his proposal, sort of the over-arching concept of
15 planning from the top down rather than working from the
16 bottom up that we appear to be doing now, turning it around
17 that way? Is everybody agreed that's the most efficient way
18 to work?

19 Mr. Perez.

20 MR. PEREZ: The way I look at it, it is top down.
21 You start with what we think is the maximum amount of
22 generation that's going to be in that area.

23 Usually you start by having little pieces and
24 coming up to the largest sum. This time you started with a
25 big piece and I'm breaking down those pieces into what's

1 going to be needed in transmission. It works quite well
2 assuming that the amount of generation on there has the same
3 certainty associated with it.

4 And also you have to take into account exactly
5 what the operating dates are. Do they spread 15 years, five
6 years? All of that will be looked at. Within those
7 constraints I think we're fine.

8 COMMISSIONER WELLINGHOFF: Let me follow up on
9 that.

10 Going to some of Commissioner Moeller's concerns,
11 is there any mechanism in California that would allow for
12 independent transmission to be built?

13 MR. PEREZ: Yes. We built Path 15. This is an
14 independent path.

15 COMMISSIONER WELLINGHOFF: That was kind of a
16 special case, wasn't it? In the normal course of things how
17 is --

18 MR. PEREZ: Let's define 'independent' as
19 something that you would like to build on your own and then
20 charge people for transmission service. They can do that
21 any time they want to if they accept the risk.

22 When it becomes a little different is if you want
23 to build something and you want us to give you all the
24 revenue back. In that particular case we have to have some
25 assurance that we're getting some benefit.

1 COMMISSIONER WELLINGHOFF: Let's say it's a
2 transmission line that's part of your plan. Is it assumed
3 that that line will be built by the utility entity that's in
4 the control area where that transmission is or is there some
5 opportunity for an independent entity to build in that area
6 as well?

7 Jan.

8 MR. SMUTNY-JONES: The point I was trying to make
9 earlier is hopefully we haven't gone backwards.

10 If you went back 20 years there are several
11 situations where developers who had contracts and were
12 running around saying 'We can't get you transmission built,'
13 basically came up with proposals that built out that
14 transmission. So when I take that experience and put it in
15 modern terms, if I'm being told -- if I'm a solar developer
16 and I get four or five other solar developers to agree to
17 build a transmission line, an interconnection into a
18 transmission line, if I can't do that that's a step
19 backwards.

20 I'm not sure that's what Army's saying. But if
21 that's not allowed I think we're actually moving backwards,
22 not forward.

23 By the way, in all those situations, those lines
24 were -- ultimately the title to those lines were transferred
25 over to utilities with one exception.

1 COMMISSIONER WELLINGHOFF: Mr. Litzinger, did you
2 have a comment there?

3 MR. LITZINGER: The tariff is subject to
4 interpretation.

5 Clearly in our company we're taking the position
6 when there's a line proposed in the transmission expansion
7 that we want to build it and we'll sort of take a first
8 refusal right interpretation of the tariff, acknowledging
9 that it's not perfectly clear. And I think that's evidenced
10 by our four billion dollar investment plan in the next five
11 years on the transmission that put transmission that's
12 needed in California to meet the needs of customers and the
13 public policy goals we would like to build. If we were
14 electing not to or other PTOs were electing not to there was
15 certainly the opportunity for independent transmission
16 companies to build.

17 COMMISSIONER WELLINGHOFF: Under your
18 interpretation, the tariff with the right of first refusal,
19 as you would interpret the tariff you'd be the first one to
20 determine whether or not you could build the line?

21 MR. LITZINGER: Yes.

22 COMMISSIONER WELLINGHOFF: Would that allow for a
23 bidding process where entities could bid and you have the
24 right of first refusal to match the lowest bid?

25 MR. LITZINGER: No. When the lines are in the

1 expansion plan our basic approach now has been that we've
2 stepped up and built it.

3 COMMISSIONER WELLINGHOFF: Why shouldn't we build
4 at the lowest cost?

5 MR. LITZINGER: We can get into discussions of
6 ITCs. It's really a matter of risk allocation, the ITC
7 model versus the regulated utility model. And I argue,
8 having worked for the IPP arm of our company for ten years
9 and understanding that model quite well on leveraging and
10 getting an enhanced return as a result of that, I think for
11 generation construction risk and licensing risk that's
12 appropriate on the transmission side.

13 My personal opinion is that the construction risk
14 associated with building the transmission line is fairly
15 minimal. It's all about licensing and the process we're
16 talking about today, getting to determine that the project
17 is needed. And I think it would be a shame to have those
18 higher levels of enhanced returns just reflected in the
19 construction portion of the project.

20 COMMISSIONER KELLY: Thank you, Mr. Litzi nger.

21 COMMISSIONER WELLINGHOFF: Thank you.

22 COMMISSIONER KELLY: We may have some time at the
23 end if you have a question.

24 Commissioner Spi tzer.

25 COMMISSIONER SPITZER: Thank you, Commi ssi oner

1 You heard the discussion from BPA regarding the
2 open season. I still have vivid recollections of pretty
3 good wind projects failing in my home state for inadequate
4 transmission leading to the financing failures. This is
5 directed towards the developers.

6 Where the variable is transmission and you've got
7 the other hurdles surmounted, is the precedent agreement
8 that down the road leads to transmission going to be
9 sufficient in the real world to get these projects financed
10 either through independent financing or the balance sheet
11 that goes through the corporate channels? Would that be
12 adequate?

13 MR. BAR-LEV: You know, in the normal scheme of
14 things our project is negotiated in about a year. It should
15 take roughly a year and a half to two years to get all the
16 permits, then takes roughly a year to a year and a half to
17 both finance and construct. We're ready to go in four, four
18 and a half years.

19 What's happening now is that transmission is
20 becoming a 50 percent. It's a two-year delay on top of
21 that.

22 I don't know whether we're going to have major
23 financing projects. I do know that a lot of people are
24 going to be pretty angry -- our equity owners and our
25 lenders -- to see that we're ready to go. But the highway

1 simply isn't being built. That's not in the model of the
2 open season.

3 I was involved in a lot of gas transmission open
4 seasons. It actually worked pretty well. The precedent
5 agreement was a mutual contractual obligation. The
6 developer of the pipeline, the gas pipeline, agreed to a
7 certain date. It was not an uncertain date. Of course they
8 had to come to the Commission to get approval. But
9 remember, you had federal approval so you had federal rights
10 of way. It all actually combined pretty well.

11 Right now what would an open season on the
12 transmission side actually mean if you still had to go
13 through multi-layers of state, federal and local approvals
14 and no one can actually promise you at the time that it's
15 going to be built.

16 It would be nice to know what your cost is going
17 to be. It would be nice to know that the transmission
18 company or the utility is committed to building it based on
19 the open season. But for us to not know when it's going to
20 be built has a major impact on the financing.

21 COMMISSIONER SPITZER: You have the federal
22 siting authority, and of course that's still a contingency.
23 But what you're saying is --

24 MR. BAR-LEV: You don't have federal siting
25 except under 1221 and 1222, which are the Energy Policy Act

1 of '05, which is not even close to what you have under the
2 National Gas Act.

3 COMMISSIONER SPITZER: I'm saying on the gas side
4 you entered into the agreement, you still have the federal
5 siting process subsequent.

6 MR. BAR-LEV: Yes. But it was efficient. It was
7 all done. My recollection is it would all be done in
8 roughly 12 months, that permitting process.

9 COMMISSIONER SPITZER: What would your response
10 be? What Mr. Bar-Lev is saying notwithstanding your best
11 intentions, the system -- there are still contingencies
12 outside of your control.

13 MR. MAINZER: That's right. It's never a slam
14 dunk.

15 I think for us the precedent agreement is
16 allowing Bonneville to secure commitments from developers to
17 purchase transmission from us. We're actually -- and this
18 construct is going to be the entity that would finance the
19 line.

20 What we are doing is we're saying in agreement
21 for signing this contract and in agreeing to take
22 transmission service from us if we conclude that there is
23 sufficient cash flow from those commitments and other
24 collateral reliability benefits -- the key challenge for us
25 is making sure that the terms and conditions are workable

1 for the developers themselves so they can take that to the
2 bank, not necessarily for the transmission financing but to
3 make sure that their project is viable and they can
4 demonstrate that they're going to get access to the grid
5 within a reasonable amount of time.

6 So we have been working very closely with the
7 wind community and the resource developers to structure the
8 deals, so to speak, so that we can work with them. We think
9 we're getting pretty close.

10 COMMISSIONER SPITZER: From the corporate
11 perspective are these precedent agreements going to be
12 adequate?

13 Mr. Engelbrecht?

14 MR. ENGELBRECHT: As long as whatever approach is
15 taken leads us to the end result of guaranteeing some
16 transmission and us knowing our costs then we can push it
17 through the corporate side if that's how we decide to
18 finance it.

19 But whether it's external financing or internal
20 balance sheet we're always looking for some sort of
21 certainly, especially on the transmission side. A lot of
22 that has to do with isn't are necessary facilities going to
23 be built; if they are going to be built can I access them
24 and at what cost is that going to run me so that I can take
25 that into account in my economic look at the project and

1 sell it to the board or whoever.

2 My key thing is whatever approach is necessary to
3 get us to that end state. If it's an open season approach
4 that hurries up the process, fine, I'm all for it. If it's
5 an open season it doesn't really get us anywhere where we
6 aren't today anyway. It doesn't really work very well if it
7 doesn't advance the ball.

8 COMMISSIONER SPITZER: What Elliott described is
9 there were two main constraints, broad categories of
10 projects. He was talking about aggregating customers to
11 move the projects forward.

12 Is that a scenario?

13 MR. ENGELBRECHT: It's a scenario we would
14 support if it can be done in a timely fashion. That's what
15 I'm trying to put out there. If it done in a timely fashion
16 and it leads to having some transmission certainty earlier
17 in the same we would be in favor of that.

18 If for whatever reason the process doesn't yield
19 that it doesn't really get us there.

20 COMMISSIONER SPITZER: Okay.

21 And, Jan, you describe that even a big state like
22 California there's still a fairly small number of areas
23 where really you need the big transmission, getting 15 or 20
24 customers for an open season.

25 MR. SMUTNY-JONES: This could work.

1 The point I was trying to make is that if you
2 look at these maps that people throw around, it's a huge
3 area that we're talking about. The areas where people are
4 most likely to commercially develop things are knowable.
5 Large portions of that desert you can't touch for
6 environmental reasons or military -- or they're blowing
7 things up there. You really wouldn't want to put your
8 project there anyway.

9 I think you can I think approach this from a
10 planning and cost perspective. I think that the sort of
11 question that you've been asking here, the great uncertainty
12 is once everybody agrees that, yeah, it's 'x' amount, and
13 they're contractually obligated, how does the FERC deal with
14 that. Is there any level of certainty that we agreed to
15 that? Is that something you're going to be able to get
16 recovery for?

17 The idea is kind of interesting and is probably
18 worth pursuing a little further.

19 I think with the gas issue it may be a little
20 clearer or cleaner because people are dealing within the gas
21 construct and you are able to site those facilities. And by
22 no stretch of the imagination am I suggesting that you
23 should be siting power plants or transmission lines in
24 California. You don't want to go there either.

25 (Laughter.)

1 MR. SMUTNY-JONES: But that I think is the
2 distinction.

3 COMMISSIONER SPITZER: Finally, you have this
4 dilemma regarding on the one hand wanting to avoid having a
5 circumstance where the non-viable projects or the
6 speculative projects will not be built, that -- retarding
7 those projects -- but on the other hand the criteria that
8 are articulated to do this weeding out need to be objective
9 as opposed to subjective, if you had one shot -- 15 seconds
10 -- what would you describe as the best objective basis to do
11 this weeding out?

12 MR. ENGELBRECHT: I think if you did milestones
13 based on items like site control and are you moving ahead in
14 the permitting process on your facility, are you moving
15 ahead on the interconnect process. When you site something
16 there's a lot of money being spent in permitting. That
17 shows me that it's a project that's moving ahead and not
18 just a phantom project.

19 MR. BAR-LEV: I'm not prepared to list all the
20 criteria. I do think that the idea of having serious
21 earnest money at various stages along the way is an
22 excellent way of weeding out projects that are real from
23 unreal.

24 MR. SMUTNY-JONES: It's money and milestones that
25 matter. You start out basically if you want to play this

1 game you need a max amount and you're going to lose it if
2 you don't meet these milestones. And there are things like
3 site control, have you signed your PPA, are you doing your
4 environmental work?

5 As I said earlier, you may have run into
6 situations where people trigger an event where they've
7 missed a milestone. So the question is why did they do
8 that. Obviously the manager of that milestone protocol
9 needs to be able to determine that he missed that mark
10 because they weren't diligent in terms of pursuing their
11 permits or there were various circumstances beyond their
12 control.

13 COMMISSIONER SPITZER: That gets into
14 subjectivity, though.

15 MR. SMUTNY-JONES: It may not. They may get into
16 a situation where all of a sudden the United States Air
17 Force decided to have a radar program. All my guys have
18 that now. That was something no one saw coming. And they
19 said, okay, you need another six months. But if they hadn't
20 applied yet I think they lose their money and they're out.

21 COMMISSIONER SPITZER: I've got the hook.

22 COMMISSIONER KELLY: You saw it coming.

23 (Laughter.)

24 COMMISSIONER SPITZER: Thank you.

25 COMMISSIONER MOELLER: Thank you, Commissioner.

1 First, Mr. Perez, I want to thank the ISO for
2 hosting me a week ago. It's too bad that Commissioner
3 Wellinghoff's not here. We spoke about not only integrating
4 wind resources into the grid but the role of demand response
5 to back them up. That was a good day. Thank you.

6 Moving to my native Northwest, Elliott, thanks
7 for being out here. Can you talk a little more specifically
8 how, say, a developer, if we want to be hypothetical, what
9 kind of commitment do they make? What skin is in their
10 game? When they agree to take service when Bonneville is
11 ready to give it, what's the significance of that?

12 MR. MAINZER: They start out with an up-front
13 deposit. There's sort of an ante just to be part of the
14 cluster. It's equivalent to one year's worth of your
15 transmission service.

16 What they're basically agreeing to is to actually
17 take transmission service. In its purest form what they're
18 doing is they're giving Bonneville sort of a put option to
19 actually sell them transmission service once we meet our
20 obligations. So once we are able to conduct that study,
21 make a determination whether we can offer transmission
22 service at embedded cost and complete the environmental
23 work, they are obligated to take transmission service from
24 us. So they go back to their board and say, 'We just signed
25 up for 10, 15, 20 years point to point transmission from

1 Point A to Point B.' That's a binding obligation.

2 COMMISSIONER MOELLER: If they would fail to take
3 service could they resell it?

4 MR. MAINZER: Yes. If they take service they can
5 certainly remarket that.

6 We're also working -- we had some concerns
7 amongst some of the members of the IPP committee that they
8 wanted there to be some fungibility of that transfer. They
9 say, 'Hey, if I'm signing up for 10 or 15 years of
10 transmission service agreement I want to know that I'm not
11 aligning myself up with a stranded investment.' So we are
12 allowing them some redirect flexibility for their longer-
13 term transmission requests. We're agreeing to notify them
14 if we see changes to the ATC methodologies which might take
15 the transmission service away.

16 Ultimately they can remarket the transmission.
17 We're trying to work those into the equation.

18 COMMISSIONER MOELLER: I'm trying to think in my
19 mind. What's the incentive or is there a lack of incentive
20 for them to follow through? But if there's value there
21 that's fungible presumably you've moved the ball forward for
22 everybody.

23 I'm a little fuzzy on the timing. Can you repeat
24 it, when you think this is going to be fully mature?

25 MR. MAINZER: We are aiming to complete all of

1 the terms and conditions of the precedent agreement probably
2 by the end of February.

3 The big thing is this is a new concept for the
4 Pacific Northwest. We have a lot of people who have sort of
5 poured their hearts and souls into this and really want this
6 to move as quickly as possible and putting a little bit of a
7 governor on it to make sure that we do it right. It's
8 absolutely essential that when we go out -- we're doing a
9 lot of outreach to the customers.

10 But I would say February-March of 2008 we hope
11 will be open season. There will be a sixty-day window for
12 the open season for people to choose whether or not to
13 participate. Then we go into the actual cluster study
14 process itself, and 90 to 100 days on that, and it's off to
15 the races once we get the cluster study results in.

16 COMMISSIONER MOELLER: I commend all the people
17 working on it with the hope that you can really meet those
18 timelines.

19 MR. MAINZER: Thank you. We're going to need a
20 good tail wind on that.

21 COMMISSIONER MOELLER: From what I'm hearing back
22 home there's a lot of optimism.

23 My next set of questions is for anybody to
24 comment on. And it goes back to our last panel,
25 particularly Mr. Zadlo talked about -- to kind of paraphrase

1 him -- the fact that it all kind of depends on whether a
2 transmission owner either has the adequate resources kind of
3 the necessary process to streamline applications and whether
4 there's proper accountability. Sometimes that just goes
5 down to individuals, whether they've got those
6 characteristics, if they want to make it happen or not.
7 Maybe sometimes it's not in the interest of the transmission
8 owner to facilitate interconnection.

9 But I guess I'd like your reactions to that kind
10 of overall concept.

11 Mr. Bar-Lev, you want to start off?

12 MR. BAR-LEV: I do think FERC has got a couple of
13 components of jurisdiction that are important here. There's
14 no reason why FERC cannot be inviting submissions of rate
15 cases with revenue requirements that embody big chunks of
16 transmission and with incentive rates if those transmission
17 projects are done on time and disincentives if they're not
18 done on time. That is I think one of the weaknesses in the
19 present interconnection system.

20 If you look at the interconnection agreement
21 there is very little. The milestones are not meaningful.
22 They may be there. I'm talking about the ISO, on the study
23 side, and on the IOU side. They're there but they're not in
24 force.

25 This system I think could be much more

1 transparent and much more enforced. It could be enforced
2 through your rate system. I don't favor going to third
3 parties, independent transmission companies if they're not
4 needed.

5 But somewhere along the way you should ask the
6 question: Is this project going to be built on time. If
7 you can't build it by a certain date, why not? Can you
8 subcontract? Is there someone else who can do it whether
9 it's for the ISO's study part or the construction part? The
10 question should at least be asked.

11 COMMISSIONER MOELLER: When you say 'project,' do
12 you mean construction or transmission?

13 MR. BAR-LEV: All the way from the study to the
14 permitting to the construction.

15 MR. ENGELBRECHT: At least within California I've
16 got to believe that three California utilities will
17 basically do the three studies on behalf of the ISO. My
18 understanding is that the ISO directs those studies. All
19 three utilities have competent transmission planners to do
20 the work.

21 The biggest problem -- again Army related to this
22 in his speech -- there's been such an overload of requests
23 that it's almost an impossible task. It's a 7/24 and more
24 job to get these done right. If we can go into more of a
25 clustering approach in a tiered fashion -- whether you tier

1 up or tier down it doesn't really matter -- but that should
2 help tremendously reduce the number of studies that are
3 required.

4 One of the big problems is the studies that have
5 been done in the past keep restudying it every time someone
6 drops out of the mix. If you do it in a cluster tiered
7 approach you won't have to restudy much at all. That's
8 going to help tremendously. I think that's the main
9 solution.

10 COMMISSIONER MOELLER: You're staying on message.
11 Good work.

12 (Laughter.)

13 COMMISSIONER MOELLER: Mr. Litzinger.

14 MR. LITZINGER: With regard to resources there is
15 a challenge in our industry getting adequate resources,
16 engineering resources especially, power system planners.
17 The irony here at least within California is power system
18 planners have a tendency to bounce around between ourselves,
19 the other PTOs, the ISO and the consultants that we're
20 subcontracting the work out to depending on who's paying the
21 most. But it's a fixed number. We've got to address it as
22 a more basic issue.

23 What we're doing at least as a company is
24 supporting universities, re-establishing their power
25 engineering programs and the like.

1 The other approach we've taken on the resource
2 issue is what I described to you earlier. It's really about
3 the senior more seasoned engineers that can do this planning
4 work fast. That's what we all want.

5 We are taking our time going with more entry-
6 level planners and seem to be having some more success with
7 that. That was my main point on resources.

8 With regard to streamlining, I think all of us
9 are interested in streamlining sort of the interconnection
10 study process that we've been talking about today. Once we
11 get through that and define the need of the project the
12 California Public Utilities Commission has taken on an
13 initiative in the last couple of years. And I truly believe
14 that the final segments of Tehachapi, segments four through
15 eleven, will get through that CPCN process within the 18-
16 month period. I think we're making progress on both of
17 those fronts.

18 And accountability, I certainly understand the
19 point. We should meet our commitments as a company. We've
20 got to go out and not make excuses and get the resources we
21 need.

22 COMMISSIONER MOELLER: I'm hoping some day we'll
23 have this debate over ocean resources as well.

24 But, Jan, any last thoughts?

25 MR. SMUTNY-JONES: I don't think I have anything

1 to say on this.

2 MR. PEREZ: One quick comment if you'll allow me.

3 I will agree with Ron that the issue of engineers
4 has become a real huge issue for everybody. We actually
5 have taken the step of starting our own academy at the ISO
6 where we are actually teaching power system engineering
7 classes. They're usually master level type of classes.

8 And before I run out of time, I didn't quite have
9 enough time to finish my speech at the beginning. But there
10 are some proposals in here about how to go forward and those
11 will be given to you as part of a package and you can read
12 those at that time.

13 COMMISSIONER MOELLER: Thank you, Commissioner.

14 COMMISSIONER KELLY: Mr. Perez, I was going to
15 ask you for the end of your speech. If you have two minutes
16 and you can give us a few more points that would be helpful.

17 MR. PEREZ: Thank you very much.

18 I talked a little bit about the clustering.
19 Where I left is clustering without further queue reforms
20 will not by itself effectively address the fundamental
21 problem of reducing the unrealistic level of requests and
22 capacity seeking interconnect.

23 A second set of reforms must adjust the current
24 approach by requiring greater developer commitment. There
25 are many potential permutations of such adjustments that the

1 Commission should consider. The CAISO believes several
2 adjustments will likely be necessary at various stages of
3 the process.

4 For example, the Commission should consider
5 increasing the financial commitment of interconnection
6 customers at each stage of the study process as well as the
7 acceleration of the requirement to establish site control.
8 Site control should not be an alternative to security
9 deposits but rather an additional mandatory requirement at
10 an early and appropriate stage of the process. Further, the
11 Commission should consider added financial consequences to
12 those people that delay or withdraw projects.

13 Interconnection customers who withdraw during the
14 study stage could be required to pay for the costs of any
15 necessary restudies by means of their prior deposits
16 Interconnection customers with executed LGIAs may be
17 precluded from suspending the project for a period of as
18 long as three years or, if that period is maintained,
19 specifying that a request to delay the commercial online
20 date exposes the interconnection customer to funding
21 responsibility for upgrade costs necessary to prevent harm
22 to other resources caused by the suspension requests.

23 Third, a point which is more of a departure from
24 past practice, the Commission should consider allowing ISOs
25 and RTOs greater flexibility in establishing up front,

1 clearly defined criteria to prioritize study efforts.

2 While the ISO has not fully evaluated any
3 particular set of criteria with the stakeholders, it may be
4 that factors such as RPS requirements, results of requests
5 for offers, resources of existing power purchase agreements,
6 interconnection in specific regions with prior transmission
7 upgrades, or other state initiatives may serve to increase
8 the efficiency and efficacy of the study outcomes and the
9 certain to project developers. The creation of priorities
10 in the study process must clearly be weighed against open-
11 access principles as they have been traditionally
12 implemented.

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1 MR. PEREZ: Our experience is that this does not
2 provide sufficient flexibility for ISOs and RTOs.

3 COMMISSIONER KELLY: Thank you very much. I
4 appreciate that. Does anybody disagree with any of those
5 points?

6 (No response.)

7 COMMISSIONER KELLY: Thank you. Mr. Mainzer,
8 when I think of Bonneville's proposal, particularly focusing
9 on the fact that you can offer and generators can accept
10 binding precedent agreements, the way I figure it is that
11 you can do it because you are going to finance the
12 transmission.

13 Am I thinking of it correctly or shall I think of
14 it differently? Is that what allows binding precedent
15 agreements to be signed?

16 MR. MAINZER: I think it's a big part of the
17 construct. I think the idea is there's probably alternative
18 ways you can focus on it.

19 But we've chosen -- we tried sort of a mini-
20 version of open season back in 2004-2005, targeting a single
21 line of a system where we expected the generators to come to
22 the table with the financing, and we got into all the
23 classic circularities of that. It really just flopped.

24 We also recognized that looking at this on a
25 single line on a system basis doesn't really make sense,

1 because it's a network, and you have a complicated set of
2 constraints.

3 So really those two things do sort of fit
4 together. You're putting that precedent agreement and
5 saying are you expecting people to commit to the
6 transmission capacity.

7 Arguably, you could also bring that to the table,
8 and you could also require an up-front financing obligation
9 at the same time. Those two things, I guess, could work
10 together. But I guess they'd be a little bit redundant.

11 COMMISSIONER KELLY: If I could ask, if you
12 required an up-front financing obligation, wouldn't they
13 have know what they're financing?

14 MR. MAINZER: Yes.

15 COMMISSIONER KELLY: Isn't that difficult,
16 because it hasn't been decided yet?

17 MR. MAINZER: That's right. I think that's what
18 the SPP guys have gone down that path. It's a lot more
19 complicated. You get into much, much more difficult aspects
20 of cost allocation, incremental cost rates, etcetera.

21 The costs that we put on the table, we really
22 come to the table with a plan of service. Their cost is
23 really our existing point to point transmission rate. It's
24 a much easier construct.

25 COMMISSIONER KELLY: Would California, with the

1 IOUs, be willing to take that approach in a sense? Didn't
2 you do that with Tehachapi?

3 MR. LITZINGER: With Tehachapi, we analyzed sort
4 of our development risk, and concluded that was not likely
5 the case, or very small. And as such, with 39925 backup,
6 recovery with the PUC a key factor, we elected to go ahead
7 an up-front fund.

8 We are, as I mentioned earlier, interested in
9 building the transmission required. Our long-term financial
10 plans envision that, you know,

11 You can't go hog wild and foresee into the future
12 and look at cash flow dips and financing arrangements and
13 stuff that we'd have to look at. So we'd want to maintain
14 that flexibility on a case by case basis.

15 COMMISSIONER KELLY: But you were willing to
16 consider it potentially on like to a geothermal area, or
17 something that's analogous to the Tehachapi situation?

18 MR. LITZINGER: Clearly, we have another
19 situation where we look at our development risk and see it
20 is minimized or adequately compensated, I think would be a
21 better way to phrase it. Then we would absolutely consider
22 forward funding.

23 COMMISSIONER KELLY: Thank you. Staff?

24 MR. KELLY: Mr. Desmorais, the main message from
25 most people today seems to be that the system is broken and

1 we've got to fix it. I heard your message, that if ain't
2 broken, don't fix it.

3 I wanted to focus on the don't fix it part,
4 because you seem to suggest that you may have had bad
5 experiences or anticipate bad experiences with clustering in
6 open season. I wanted to hear more about what the pitfalls
7 might be of those approaches.

8 MR. DESMORAIS: Sure. I think they're the things
9 people have alluded to already. We've never done a formal
10 cluster. Certainly, we've looked at it kind of informally,
11 where we have a group of generators in the same region,
12 studying their interconnection requests at the same time.

13 The problem we've run into is the classic, always
14 had one of them drop out or were revisiting it. So we
15 missed time lines that were supposed to deliver steady
16 results in an open season again.

17 It's the classic. There's good and bad with both
18 of them, and the challenge of the open season is getting
19 customers to make commitments. So people are in for as long
20 as they can be, until there's time to make a financial
21 commitment. Then they don't make that commitment.

22 MR. KELLY: For many of the speakers today, the
23 idea of having to do restudies sounds like it causes
24 enormous delay and protracted schedules.

25 I think I heard you say well sure, you have to

1 restudy. You do another run. Almost a few hours later
2 you've got it done and you move right along.

3 And it's stressful, but actually you've met all
4 your deadlines. Could you elaborate on the difficulties of
5 successfully dealing with the restudy?

6 MR. DESMORAI S: Again, we're here today primarily
7 to address interconnection requests possibly. Our service
8 territory goes from Oregon to the far side of Wyoming. So I
9 don't often have a bunch of interconnect requests right next
10 to each other.

11 I do have a couple of places in Wyoming now. I
12 have a number of wind requests adjacent to each other. I
13 haven't had to do a lot of restudies. Certainly, I would
14 never state that a restudy takes only a couple of hours.

15 Somebody alluded to that earlier, so maybe the
16 planner's portion of it takes them a couple of hours to run
17 or re-run their model. But then it has to cascade through
18 all the other engineering disciplines.

19 We haven't had to do a lot of restudies yet, and
20 again I think it's partially because of our geographically
21 diverse territory, and also because we've been studying
22 projects independently.

23 There's also a lot of concern about which
24 projects are real or not. We simply go by queue order. If
25 they're in the queue or ahead of you, we assume it exists.

1 Again, in the interconnection world, it doesn't
2 have a lot of impact. In the transmission service request
3 world, it's more of an impact. But when the projects in my
4 queue are geographically diverse, somebody dropping on
5 Oregon clearly doesn't affect someone in Wyoming.

6 MR. KELLY: Thank you.

7 COMMISSIONER KELLY: Thank you. Mr. Perez, one
8 thing I wanted to add. Mr. Wellinghoff mentioned that
9 filing sooner rather than later would please him. I'd just
10 like to add that it would certainly please me too if you can
11 meet an earlier time line than June. We would appreciate
12 that.

13 MR. PEREZ: It would certainly please me too, and
14 it was the subject that I approached with the back row here
15 at lunch time. We will do our utmost.

16 COMMISSIONER KELLY: Thank you. Yes?

17 MS. SMUTNY-JONES: In that light, I would also
18 like to say that this conference, by the way, is a very
19 helpful thing from the perspective of my members. This is
20 very positive.

21 Over the years, things have gotten a lot better
22 for the IPP industry with respect to interconnection, in
23 getting access to transmission. Twenty years ago you
24 couldn't do it, because it was magic and we've come a long
25 way since then.

1 But I would encourage you to stay on top of this
2 because there are a lot of thorny issues here that frankly
3 nobody at this table actually can fix. Ultimately, this
4 dead cat will end up on your porch at some point in time.

5 (Laughter.)

6 MS. SMUTNY-JONES: You're at I East knowing it's
7 coming could be helpful, and perhaps you could offer us some
8 guidance as we're getting involved in these various
9 stakeholder processes that could go on forever, unless there
10 is some sort of real time limit to get it done.

11 In light of the fact that you're encouraging the
12 ISO to file a ruling, hopefully not often but at I East file
13 early, we would (a) support that and (b) ask that the FERC
14 actually continue to be engaged in this, by having staff
15 out, and if we're getting too far off track, maybe kind of
16 remind us that we've got a clock running.

17 COMMISSIONER KELLY: Thank you.

18 MR. BAR-LEV: Just to build on that point, one of
19 the things that we believe could really help here is by
20 having some sort of an inter-agency regular meeting with
21 you, the CPUC, the ISO, the Energy Commission, I don't know
22 who else, to see how we're doing on clearing the queue, and
23 on fixing the queue in the long run.

24 Because as I show in this chart that's before
25 you, this is a very complicated process and it's quite

1 different actually than the Bonneville situation, where they
2 essentially embody four or five of the agencies and
3 companies that we have in California. We need your help.

4 COMMISSIONER KELLY: Thank you very much, and Mr.
5 Palmer, who heads up the EIS group, we asked him about his
6 experience in dealing with dead cats. He actually has quite
7 a bit of experience.

8 (Laughter.)

9 COMMISSIONER KELLY: We're going to start the
10 next panel. Shannon, just a homework assignment if I could
11 for Jan. You mentioned the milestone concept.

12 A lot of experience has been gained in the QF
13 industry. If you could sort of lay out what those
14 milestones were, and if there were ideas around sort of when
15 earnest money was triggered, I think that would be a useful
16 document for the Commission and could really sort of
17 supplement.

18 MS. SMUTNY-JONES: We can put that together, and
19 also tell you what worked and what didn't. I don't want
20 this to sound like it all works just wonderfully. There
21 were some problems with it, but at any rate, we've been down
22 this road before.

23 MR. CANNON: The annotated version, thanks.

24 COMMISSIONER KELLY: Thank you all very much.

25 (Recess.)

1 COMMISSIONER KELLY: We will continue the
2 conference. Now we're going to address improving queue
3 management in the East.

4 We have with us today Steven Herling, Vice
5 President for Planning, PJM Interconnection; Stephen Rourke,
6 Vice President, System Planning, ISO New England; Sean
7 Finnerty, Senior Vice President, Wind Development
8 Competitive Power Ventures; Mack Thompson, Vice President
9 Power Supply Services, American Municipal Power of Ohio; and
10 Angela O'Connor, President, New England Power Generators
11 Association.

12 Angie, I know we've talked about ponytails and
13 big boy pants, so I'm glad that there's some Chanel in the
14 group now. It's nice to have you. Another staff member
15 joined us. Rahim Amerkale, who's left my staff to join Ray.

16 Rahim was not here, because he was at the
17 swearing in of his wife, Jennifer Amerkale, also a very
18 highly regarded member of FERC, who just became a member of
19 the Maryland Bar. A hand to Jennifer.

20 (Applause.)

21 COMMISSIONER KELLY: Thank you. Mr. Herling,
22 would you like to start?

23 MR. HERLING: Good afternoon. We disseminated
24 this very colorful paper earlier today. There's a lot of
25 factual information in there. I'll highlight bits of it and

1 then move on to some of the things we've talked about
2 earlier today.

3 There are a number of moving parts here that
4 basically are resulting in the kinds of problems we're
5 seeing in the queue. Two specific ones, I think, at least
6 within PJM. One is the queue volume.

7 I tried to rough out. If you look at the time
8 periods, roughly 2003 and 2004 to 2005 and 2006, our queue
9 volumes went up by about 120 percent.

10 If you look at what we've seen so far in 2007,
11 what we expected to see through January of 2008, compared
12 back to 2003 and 2004, it would have gone up somewhere
13 between two and three hundred percent in queue volumes.

14 So the sheer number of studies is really crushing
15 us, and you can work through that in a lot of ways. You
16 could work with resources, you could work with tools and you
17 could work with process, and we're trying to do all of
18 those.

19 But one of the things we have had the most
20 trouble with is every so often, and we've seen this from the
21 very first queue in '99 and 2000, until what we're dealing
22 with right now, we get these very, very large scale projects
23 that have proposed, you know, hundreds of millions of
24 dollars in network upgrades on the system.

25 Those studies individually take a tremendous

1 amount of time to complete, and they back up everybody
2 behind them. If you're behind a project that's hitting 150
3 facilities, violations of 150 facilities, any study I do for
4 the second guy without all those upgrades is completely
5 meaningless.

6 To provide a study of that situation, there would
7 be no certainty whatsoever to those results. We've seen
8 that in the East, we've seen that in the West. It's really
9 bogging us down and we're trying to find ways to deal with
10 it.

11 But that and the volume are the two biggest
12 issues. One of the points I make in our material is in PJM,
13 this is not a wind issue. This is a generation issue. We
14 have a lot of wind, but we have more than everything else
15 combined.

16 Partly why it's a wind issue I think is the
17 timing issues that wind faces with respect to the tax
18 credits. We've dealt with this, going again all the way
19 back to 2000 and since, where projects get in the queue,
20 they are racing the clock to get in service before a tax
21 credit is eliminated.

22 They get to a point in time where they drop out
23 of the queue; six months later, the tax credit is renewed
24 and they get right back into the queue and then we've dealt
25 with that over and over and we're facing it now, with

1 generators that are concerned that they will not be in
2 service by December 2008.

3 Jumping down, to some of the solution issues,
4 there are a lot of things this morning, a lot of milestone
5 possibilities that would certainly help. PJM needs to do a
6 better job of getting a study done, but we need to impose a
7 little bit more discipline on the process.

8 Some of that could be through some better
9 milestones. The comments that were made before, we've got
10 to get the good projects moving forward. That means we have
11 to get rid of some of the projects that are just never going
12 to happen.

13 If we could figure out what the right combination
14 of milestones is, that would make a big step forward. Some
15 of that could be based on just more money. Some of it has
16 to be based on getting timely data to us, where the tariff
17 is very vague,
18 for example, and there are some other issues there.

19 One of the bigger problems. We've developed a
20 lot of analytical tools in the last year, but the multiple
21 points of interconnections that are allowed in the tariff
22 just kill our analytical procedures.

23 Because you work your way through, and you get to
24 a generator that has two points of interconnection and now
25 you have two sets of results behind them. There's a

1 generator with two, so now you have four.

2 All it takes is five or ten of those, and instead
3 of having 100 studies you have 1,000 studies. So that's an
4 issue, and there may be compensating things that we need to
5 do, like maybe ease up on the material impact threshold if
6 you change your point of interconnection.

7 But that would make a huge difference in our
8 queue. I don't know about anybody else's. The whole
9 concept of taking certain groups of generators out of the
10 queue and doing them separately is an admirable thought, but
11 I don't know who made the comment before about efficiency
12 versus fairness.

13 But how do you balance the rights that somebody
14 else had, and now you have moved a bunch of projects ahead
15 because they're a new renewable or because they're wind or
16 because whatever your category or criteria might be.

17 There's a number of other points. I'll save them
18 for the Q and A.

19 COMMISSIONER KELLY: Thank you very much. Mr.
20 Rourke?

21 MR. ROURKE: Thank you very much. Thank you for
22 the chance to be here. Actually, I'm very pleased to be
23 able to follow Anne George, whom all of you heard on the
24 first panel, who was able to tell much of the New England
25 story.

1 So let me dive right into some of the details.
2 As you just heard from PJM, and you certainly heard from the
3 Midwest ISO and the Cal ISO and others on the West coast,
4 our queue over the last year and a half or two is not unlike
5 theirs.

6 We've seen some dramatic growth. You think about
7 roughly a year and a half ago there were maybe 40 units in
8 our queue, 40 generators coming forward. There are now 95.

9 We've added three more in the last two weeks.
10 Size-wise, we are not the same as them, nor as we the same
11 in terms of technology types. On the renewable side of
12 things, we do have some wind, a little bit of biomass,
13 landfill gas and some small hydro.

14 But the magnitude of the wind in the NorthEast,
15 at least so far, is certainly much smaller than sort of the
16 staggering amounts that you heard earlier today. We may be
17 a little staggering on the natural gas side of things.
18 They're certainly way more staggering on wind.

19 We're seeing the influx really driven by two
20 waves. Anne spoke of the new markets that are in place.
21 The ISO's going to be running its first auction by capacity
22 that's needed, beginning in the year 2010 going forward,
23 with the first auction for forward capacity that we're
24 running early next year.

25 We have just gone through the last six to eight

1 months. Very new steps we're faced with, of not only
2 getting generators to move through the queue, but also to
3 qualify new resources, both the demand side of the equation
4 and lots of new demand resources that came forward for that
5 first auction.

6 But we also ended up with 35 new generators that
7 have been qualified for that first auction. Going through
8 that work, and as we have units moving through the queue at
9 the same time, they're moving through getting qualified for
10 the auction, we're starting to see where the two paths are
11 starting, in part to converge with each other, in part to
12 conflict with each other.

13 On the FCM side of things, given the short time
14 frames, we've had to do the study work. We've been able to
15 actually put some new software tools in place to expedite
16 those studies, that we actually hope to transition over, to
17 begin to expedite some of the studies we have.

18 For moving generators through the queue, we have
19 also found that we're doing in some areas two kinds of work.
20 You think of two sets of scoping meetings being held, one
21 for the markets, one for the queue; two series of
22 transmission analysis studies getting done, one for the
23 market, one for the queue.

24 We have formed a large stakeholder group. As
25 Anne said, we have met for five full days now. Our goal is

1 to work through the issues we're faced with, with the tariff
2 and with the markets, and hopefully make a filing on both of
3 those issues by October of next year.

4 We are very pleased to hear from you before
5 lunch, not to expect any rulemaking on this in 2008, that
6 would actually leave our space a bit free for us to continue
7 this work going forward. Because the same folk that would
8 respond to a new order are the same folks doing this work.
9 So thank you for that.

10 As Steve said and you've heard from others, we've
11 had to beef up our staff as well. We've added folks both on
12 the business side of getting generators moved through the
13 queue, just to process the agreements, the invoices. Key
14 contractors are on the staff going forward.

15 But we've also had to add to the engineering
16 staff at the ISO. We too have started to reach out to
17 universities in the area, sponsoring a grad power class
18 right at the ISO for our existing staff.

19 So we're faced with many of the same challenges
20 you've already heard, and I look forward to talking more
21 during the question and answer session.

22 COMMISSIONER KELLY: Thank you very much, Mr.
23 Rourke.

24 MR. FINNERTY: Thank you for inviting me to speak
25 today. Competitive Power Ventures develops both wind power

1 and natural gas fire generation nationwide. My comments
2 today, while focused on wind power generation, are also
3 applicable to other forms of generation, and represent the
4 position of Competitive Power Ventures.

5 I think the panelists today have done a very good
6 job of specifying the two main reasons for significant queue
7 backlogs. First, the transmission provider study projects
8 in the queue one by one instead of simultaneously. Delays
9 caused by waiting your turn for studies are exacerbated when
10 projects drop out of the queue, and the transmission
11 providers return to go and start the study process all over
12 again.

13 The second reason for queue delays is that many
14 developers submit multiple applications for potential
15 projects that are in the early stages of exploration,
16 instead of waiting until they have a serious project under
17 development.

18 These phantom projects inflate the size of the
19 queue and increase potential for projects to drop out of the
20 process after the studies are completed.

21 I want to follow up on comments made by Rob
22 Gramlich this morning. Significant queue backlogs are the
23 direct result of the FERC pricing policies, which tag the
24 cost of transmission upgrades on the first group of new
25 capacity that crosses the line between service for new

1 facilities and service that will require system upgrades.

2 I believe at the time the Commission's policies
3 were evolving. The Commission expected that each
4 transmission provider would be managing fairly limited
5 queues, with at most a few projects under consideration at
6 one time.

7 However, the recent restart of the generation
8 development period, particularly for renewables, has proven
9 that policies that were expected to support competition have
10 now become a key impediment to competitive development.

11 Clearly, the Commission must engage in a
12 fundamental reform of its pricing policies, to avoid the
13 need to tag specific projects with the cost of transmission
14 expansions, and to remove incentives for phantom project
15 applications.

16 There are two simple means to accomplish this.
17 Allowing rolling upgrades to the transmission system across
18 all users and cluster the study of projects.

19 While the Commission has rejected rolling in
20 favor of transmission credits or awarding transmission
21 rights, problems created by the current pricing policy are
22 dire enough to merit a closer examination of rolling
23 pricing.

24 Rolling can perhaps be coupled with a significant
25 one-time up-front allocation of costs to generators.

1 Requiring substantial up-front payment can lead to less
2 queue squatting, further reducing the need for the first-
3 come first-serve study process.

4 USRs may help but are only part of the solution,
5 because there's still the iterative study process.

6 Projects, particularly phantom projects, drop from clusters
7 after burning the upgrades that will be allocated to them.

8 The developer will then fare no better if its
9 project is stalled in a cluster instead of stalled onto the
10 current study process. There is no one size fits all
11 solution. What may work in PJM may not work on a system
12 that consists of a single vertically integrated utility.

13 However, there are some common elements that
14 could be incorporated into the interconnect policy after the
15 new interconnect policy. The Commission should move to
16 integrate up-front costs.

17 If the Commission concludes that there must be an
18 up-front cost allocation to a project, earlier and more
19 certain information on the cost is imperative. The
20 Commission can reduce the occurrence of phantom projects by
21 increasing the deposits or milestone requirements to further
22 ensure that only serious projects apply.

23 The Commission should also increase the reliance
24 on the cluster processing of interconnection requests.

25 Proper design and moving away from the interim study project

1 is essential to the success of this.

2 Finally, the Commission must assure the adequate
3 staffing resources to the transmission providers in the RTO.
4 They should ensure compliance with the study process time
5 lines. CPV anticipates filing written comments, which will
6 include some specific proposals subsequent to this hearing.

7 Again, I thank you for allowing me to speak
8 today, and look forward to your questions.

9 COMMISSIONER KELLY: Thank you, Mr. Finnerty.
10 Mr. Thompson?

11 MR. THOMPSON: Thank you for allowing me to speak
12 today on behalf of the roughly two million citizens on whose
13 behalf AMP-Ohio works. AMP-Ohio is a non-profit
14 organization that purchases power from a variety of sources
15 and develops and manages generating projects on behalf of
16 its municipal electric system members, thus enabling them to
17 meet the electric supply needs of their citizens.

18 We have 123 such members in Michigan, Ohio,
19 Pennsylvania, Virginia, West Virginia and Kentucky. Because
20 of this footprint, AMP-Ohio operates in both the Midwest ISO
21 and in PJM.

22 AMP-Ohio is in the thick of the generation
23 interconnection queue process. We currently have five
24 wholly-owned projects in the queue.

25 The proposed projects include a 1,000-megawatt

1 coal-fired plant in Southern Ohio, which must connect to
2 PJM, three FERC-licensed hydroelectric projects totaling 191
3 megawatts located on the Ohio River, two of which must
4 connect to MISO and a third which must connect to PJM. We
5 also have a five megawatt wind generation project that must
6 connect to PJM.

7 Initially, AMP-Ohio was a participant in a 1,600
8 megawatt peri-state energy campus currently under
9 construction in Southern Illinois, which must connect with
10 MISO.

11 We continue to evaluate other potential
12 generation projects as needed, to meet the power supply
13 needs by our members, including those brought to us by the
14 developers of small renewable resources, such as wind,
15 biomass and landfill gas.

16 Based on the feedback we received from these
17 developers, they are experiencing interconnection problems
18 similar to those that I will discuss here.

19 With respect to the queue problems, first of all
20 the process is slow. A prime example is the 1,000 megawatt
21 coal-fired plant we're developing in Southern Ohio. In
22 January 2006, AMP-Ohio submitted a generation
23 interconnection request for the proposed plant, to
24 interconnect with PJM.

25 The feasibility study took about five months,

1 which is three months longer than allowed for under the
2 tariff, and the system impact sent it into ten months, six
3 months longer than allowed.

4 My second example is a five megawatt wind
5 project. On July 29, 2005, AMP-Ohio submitted a request to
6 interconnect this project at 23 KV within the PJM system.
7 The study took 14 months instead of three allowed under the
8 tariff. The system impact study report took more than 12
9 months, instead of the four months allowed.

10 In addition to being slow, the process is
11 inflexible. We would like to be able to collaborate with
12 our suppliers, to develop the best approach on a joint
13 basis. We'd like to be able to take advantage of experience
14 by obtaining the advice on long-term courses of action.

15 Currently, the interconnection and transmission
16 study personnel appear worried that they will be accused of
17 providing market advice to the interconnection customer. So
18 such collaboration is minimal or non-existent.

19 If this rigidity stems from attempts to ensure
20 fairness, we'd like to see proposals from the RTOs to better
21 balance fairness with the practical realities of project
22 development.

23 The process also does not provide reasonable cost
24 certainty. We are nearly two years into the process, and we
25 still don't know what it's going to cost our members to

1 connect the 1,000 megawatt coal plant to the grid.

2 Not only has significant time passed, but our
3 costs is still dependent the fate of other projects in the
4 queues, some of which when submitted have planned in-service
5 dates earlier than ours, but have since been postponed to
6 in-service dates after ours.

7 Even if we had a completed facility study in the
8 end, which we do not, it would only provide a good faith
9 estimate, not a firm price quote.

10 Furthermore, even after the necessary upgrades
11 are identified, we agree to pay for them and we proceed with
12 plant construction. There's a risk that the upgrades will
13 not be in service by the agreed-upon date.

14 This risk is applicable to both generator and
15 connection-related upgrades, and any upgrades needed to
16 assure delivery of costs to MISO-PJM. If a new transmission
17 line of any appreciable length is required, the perceived
18 risk goes up dramatically.

19 This is one of the reasons why certainty is
20 important. We want to weed out risky options earlier in the
21 process. One other point should be made about the
22 interconnection process.

23 In addition to a generator interconnection, AMP-
24 Ohio needs transmission paths across the MISO-PJM scheme in
25 order to serve our geographically diverse membership.

1 We must obtain through and out service from the
2 RTO where the generator is located, and transmission service
3 on the other RTO where the municipal member's load is
4 located.

5 These multiple RTO requests generate additional
6 system studies beyond those associated with the
7 interconnection request. Each of these requests has its own
8 time line, and it's not coordinated with the other requests.

9 It's difficult for AMP-Ohio to propose solutions
10 to the problems that we have identified. We have not
11 managed, the process, the resources or pools devoted to the
12 process. We appreciate the Commission's decision to examine
13 the interconnection queuing issue, and we appreciate the
14 review which is underway within the MISO and PJM stakeholder
15 processes.

16 Based on our experience, these efforts must not
17 be allowed to die out without producing tangible results.
18 We encourage the Commission to monitor the progress on the
19 issue. Thank you very much.

20 COMMISSIONER KELLY: Thank you, Mr. Thompson.
21 Ms. O'Connor.

22 MS. O'CONNOR: I'd like to think you saved the
23 best for last, commissioner. Thank you for asking us to
24 come before you, to talk about this important issue for you
25 today.

1 You've pretty much heard it all. You've heard
2 from my colleague, Anne George this morning. My colleague
3 Steve Rourke outlined where we are in the process in New
4 England.

5 I'd like to focus my comments in the area of the
6 long-stand stakeholder process we've had in New England. To
7 the extent possible, we have used this process to reach
8 consensus among a number of different parties.

9 I think the Commission is well aware of that.
10 This process over the years has met with considerable
11 success, given the diverse interests that we do have at the
12 table. The Interconnection Working Group is an example of
13 that process.

14 I'd like to highlight the fact that we have, and
15 I didn't even know this was frankly a word until we did
16 this, but the working group is time-shared and George
17 represents six states as the NEPOOL representative;
18 representing all those diverse interests is Bob Stein. Then
19 we have Steve representing the ISO.

20 That speaks volumes to our efforts in New England
21 on the collaborative process. I can assure that during our
22 robust discussions, that all interests are well-represented.

23 The questions the Commission has posed in this
24 technical conference is really a fascinating opportunity to
25 sit here and listen to what's going on across the country.

1 They're the very questions that we're trying to address in
2 our working group.

3 Please be assured this is not an open-ended
4 discussion. We did start this process. We are planning on
5 filing in October of 2008, a filing with the Commission. I
6 want to assure you that the schedule, it was developed by
7 consensus what the schedule would look like.

8 As for our process, Steve alluded to it a little
9 bit, but we've broken it down into three phrases. The first
10 phase is information-sharing, which I was told is the
11 politically correct word to describe education. So I'll
12 stick with the information-sharing in the first phase.

13 We are now into the identification process. As
14 Steve mentioned, I'm going through and trying to identify
15 areas where there is consensus, and areas where there is not
16 consensus. Many areas of consensus are pretty obvious, but
17 as discussions become more substantive, additional concerns
18 become evident and we identify them and we list them for
19 future meetings.

20 Realistically, some of these issues may not be
21 resolved in our process, but New England stakeholders,
22 including my company from the New England Power Generators
23 Association, are committed to this process, and we will
24 resolve many of the issues that will improve the
25 interconnection process.

1 In New England, to assure that it functions
2 acceptably with the forward-capacity market, here's the best
3 part. The benefit to the Commission of the New England
4 process is that the issues that we are unable to resolve
5 throughout this process that you inevitably will be asked to
6 decide upon will be much more narrow, more clear and more
7 well-defined.

8 The final phase of the process will be the
9 resulting of the tariff language filed with the Commission
10 in October on the issues that we do reach consensus, and if
11 necessary, define issues for resolution by the Commission.

12 To the extent that changes are made to this
13 process, given that we're just now heading into the second
14 phase, as I mentioned earlier, how extensive these changes
15 will be or what they will look like is still pretty unclear.

16 We appreciate the technical session and any
17 resulting questions that come out of this session that we
18 may need to ask in the scope of our discussion, and try to
19 integrate the interconnection queue process with the SCM in
20 New England.

21 At the risk of never being invited to come back
22 here again, I'd like to extend an invitation to members of
23 the Commission or their staff to join us in some of these
24 stakeholder meetings. Kevin Huler, Commissioner Kelly, who
25 I know is on your staff, is well-versed in our process in

1 New England, and has survived and lived to tell the story
2 another day.

3 So I encourage the Commission, if they're
4 interested, to come, sit in and perhaps participate in this
5 process.

6 In closing, my purpose here today is pretty
7 simple. It's to deliver the message that we will work
8 together in New England collaboratively in our unique
9 process, to resolve our challenges regionally. I guess I'm
10 here to just ask the Commission to give us the opportunity
11 to do that.

12 Thank you again for the chance to come here and
13 see you today, and review this whole process. Thank you.

14 COMMISSIONER KELLY: Thank you very much.
15 Commissioner Spitzer? Commissioner Moeller, would you like
16 to start off the questioning?

17 COMMISSIONER SPITZER: Sure. Thank you. It
18 seems to me the issues are different than what we've heard
19 in the three prior panels. You don't have the proliferation
20 of wind, the locational issues. You've got a lot of natural
21 gas that fits the paradigm.

22 Nevertheless, you do seem -- Mr. Thompson, you
23 expressed some frustration, as well as Mr. Finnerty.

24 To what extent can this open season proposal,
25 which does require the financial commitment, might achieve

1 the effect of we being out non-viable projects, and give
2 entities that are financing, particularly with private
3 development, some comfort that the transmission will be
4 there? How applicable is the PPA proposal to your
5 circumstances?

6 MR. FINNERTY: We at Competitive Power Ventures
7 are going to go back and digest the specific BPA proposal
8 before commenting on that. But I think any change that
9 reduces the number of what we call phantom projects in the
10 queue and gets the logjam cleared up is good, whether that's
11 increasing the deposits or the milestones that are required
12 to proceed through the process.

13 As for cost certainty on upgrades, anything that
14 gives us earlier information and more certain information on
15 the cost of what our upgrades would be for a specific
16 project, anything to improve that certainty allows us to
17 move forward into financing, in a much better position than
18 having that uncertainty hang out for a long period of time.

19 If the RTO came back and said your upgrades are
20 X, and there was uncertainty as to whether the actual
21 upgrades ended up higher or lower, that would give us a data
22 point to move forward into financing very comfortably.

23 COMMISSIONER SPITZER: I don't want to cause
24 anyone to offend their local government. But is the state-
25 sitting process among the variables the most problematic as

1 opposed to cost from a perspective of looking for certainty?

2 Which you said, it seems to me, hanging out
3 waiting five years for a permit would even be more vexatious
4 than determining the dollar amount.

5 MR. FINNERTY: In an instrument where a permit
6 was still outstanding yes, that would be a tremendous amount
7 of uncertainty. Wind projects, however, the permitting
8 process is relatively short, relatively straightforward.
9 That generally does not become a piecing item. A piecing
10 item is generally a transmission interconnection process.

11 COMMISSIONER SPITZER: Then I guess the last
12 issue on that scenario would be the milestones, how would
13 you describe some of -- to some of the prior panelists, this
14 dilemma? You want to be efficient, but obviously efficiency
15 would be greatly enhanced if the big guys get everything
16 they want?

17 That leaves off the fairness side to independent
18 producers, or some of the small ones who are financing
19 outside of their balance sheets. I guess for all of you,
20 how do you resolve, in terms of coming up with objective
21 criteria, that balanced efficiency and fairness, starting
22 with maybe PJM?

23 MR. HERLING: I think the biggest problem that we
24 see when you look at some of these larger-scale projects,
25 obviously we would love to be able to turn out a feasibility

1 study in 60 days.

2 But if somebody dumps 2,500 megawatts into
3 Northern Illinois as a point injection, the likelihood of
4 being able to identify the transmission to satisfy that in
5 60 days is zero.

6 We're talking about problems on multiple
7 transmission facilities, and areas where solution
8 opportunities may be few and far between. So you've got a
9 lot of engineering to do to come up with viable solutions.

10 If you take those kind of projects and then start
11 weighing them against loss of developers, just milestones
12 alone aren't going to take care of that. Having higher cost
13 thresholds aren't going to take care of that.

14 I'm not sure how you resolve that balance between
15 the big guys and the little guys, and make the process move
16 forward that will give everybody a timely solution. Some
17 have suggestions that I think CPV was making, give you an
18 opportunity, where you're looking at clusters differently
19 from the way PJM does today, where you tie in some of the
20 cost allocation issues.

21 Then you may be in a position to identify a lot
22 of solutions for a group. But you have to be able to deal
23 with the restudy issue as people drop out quickly.

24 You know, the fairness issue is very, very
25 difficult. If you make too many compromises for efficiency,

1 it's going to be very hard to reset that balance.

2 MR. ROURKE: I thought about the milestones from
3 two perspectives. As I said earlier, we are really putting
4 our new generators down two paths at the same time. One is
5 they are going through the queue and we're doing all the
6 studies we need to do there.

7 The other is if they do want to go on to
8 participate in the FCM going forward, and then qualify for
9 an auction, and we just did that work as an example over the
10 last six months for the auction that takes place, units that
11 show up in June of 2010. Sorry about that.

12 COMMISSIONER KELLY: I think it's the childcare
13 center?

14 (Laughter.)

15 COMMISSIONER KELLY: Either that, or we won't go
16 there.

17 MR. ROURKE: For us to look at milestones on the
18 market side of things, to make sure that a project is real
19 and is going to show up in time to share a load in June of
20 2010, it was worth going a lot, going through that exercise
21 this year because we were able to drill down, having dealt
22 with the state for siting for permits for air, for water,
23 have they ordered their equipment on time, etcetera,
24 etcetera.

25 That was actually very good work. When I tried

1 to think about the use of milestones and where maybe you fit
2 in the queue, I think along 95 units, and I tried to think
3 through sort of this race of milestones going forward.
4 We're on 97 and then we're on 87 and then it dropped back to
5 91st, and then all of the sudden I'm 83rd.

6 Thinking about the restudy effort, again, I've
7 not spent a lot of time on this, but as you can potentially
8 move back and forth through the queue, just simply based on
9 the race of your milestones against somebody else's, we need
10 to give that some thought, if I understood where some of the
11 earlier discussion was going on milestones. Because the
12 study effort could escalate quite radically.

13 MR. FINNERTY: I don't think we would advocate
14 for a project moving up and down the queue based on their
15 milestones, versus another project in the queue meeting a
16 milestone earlier.

17 When we speak of having milestones in the study
18 process, you know, it's land control. It's proceeding into
19 the permitting process. It's proceeding to secure
20 equipment. As long as you are actually progressing your
21 project forward through the development process, you should
22 continue to log in the study process.

23 It is those projects that don't have land control
24 or those developers that submit multiple queue interconnect
25 requests for the same project from a developer, we do a

1 competitive analysis. We look at who's in the queue, we
2 look at who's developing.

3 It's very clear to us when a developer has filed
4 multiple interconnect requests for a single project. It's
5 also pretty clear to us as we do that analysis, if that
6 project will go forward or not. There may be some of that
7 discipline that needs to be pushed down to the RTO level,
8 increasing the level of deposits that are made to get into
9 the queue. That may help as well.

10 Only developers with serious projects will take
11 on a significant financial burden to proceed forward in the
12 queue, and perhaps some of those revenues will help pay some
13 of the staff that we're hearing is desperately needed to
14 process the applications.

15 COMMISSIONER MOELLER: Commissioner, would you
16 mind if I stepped in for a second? Mr. Finnerty, I'm
17 interested because I really thought a few years ago CPV was
18 in the position of being accused of being a phantom project,
19 and a financial advisor was trying to kick you out of the
20 queue. I believe you won that case.

21 But in light of that, do you have concerns about,
22 as we consider different types of milestones perhaps,
23 whether as the commissioners alluded earlier, to the extent
24 there's subjectivity in that in trying to figure out which
25 ones are real and which ones aren't, based on your previous

1 experience, accused of being a phantom project, of how we
2 manage that.

3 MR. FINNERTY: You bring up some bad memories.

4 (Laughter.)

5 MR. FINNERTY: And some good memories, I guess.

6 But yes, we don't want to see a lot of subjectivity in the
7 process.

8 But for instance, wear my wind developer hat.
9 When a project comes to file an interconnect request for say
10 300 megawatts, and it can't show land control or its land
11 control consists of 1,000 acres of land, we can't put a 300
12 megawatt wind farm on a 1,000 acres of land.

13 Those sorts of decisions are not really
14 subjective. It's a matter of fact. You just can't put a
15 project that size on that amount of land. We want to award
16 as much subjectivity as possible. Can you eliminate it all
17 together? I'm not sure.

18 We anticipate filing comments with some specific
19 proposals. We're going to address the milestone issue.
20 Hopefully, it will clear up some of these questions at that
21 point.

22 COMMISSIONER KELLY: Does that take care of your
23 questions, Mark?

24 COMMISSIONER SPITZER: Yes.

25 COMMISSIONER KELLY: Commissioner Moeller.

1 COMMISSIONER MOELLER: Thank you, Commissioner
2 Kelly. I have to leave for a four o'clock meeting today, so
3 I'll quickly say thanks to everyone that was involved in
4 this panel and the previous panels too. I know it was a
5 significant effort to get here.

6 I really have only one question, and that's for
7 Mr. Thompson. Regarding your plant, going into it, you've
8 told me about it in the past, where the last year and a half
9 you must have known you were going to have some challenges
10 building a plant in one month and then having delivery
11 points in another, multiple delivery points.

12 I was kind of curious. Did you get assurances
13 ahead of time that the issues would be dealt with in terms
14 of queuing and transmission paths, or to what extent
15 potentially that was a pretty big risk in building what is a
16 significant plant that obviously your members are counting
17 on?

18 MR. THOMPSON: No, there are no assurances ahead
19 of time. You simply go through the process. It's the
20 nature of the East for us. We have to have multiple members
21 participate to make this work. There are some you can't
22 contract for outside engineering firms to provide studies
23 for you.

24 But those independent analyses don't carry any
25 weight with the RTOs. But no, there are no assurances going

1 forward. You proceed in parallel.

2 COMMISSIONER MOELLER: You just are nervously
3 awaiting the results, and it just seems like quite a
4 vulnerability when you're building a plant of that size, to
5 go into a process with I guess that many question marks.

6 MR. THOMPSON: That's one of the reasons we would
7 value the speed and certainty associated with improving the
8 process.

9 COMMISSIONER MOELLER: Thank you.

10 COMMISSIONER KELLY: Commissioner Wellinghoff?

11 COMMISSIONER WELLINGHOFF: Thank you,
12 Commissioner Kelly. I apologize for having to go in and
13 out, and if I get into areas where you've already started to
14 question or have had some responses, please stop me.

15 Mr. Herling, I'm interested in your initial
16 discussion, indicating that very large-scale projects take
17 time to complete.

18 When you talk about large scale, are you talking
19 about big in size, as far as say a coal plant, or big in
20 scale, like a wind farm that has multiple systems? What
21 were you referring to when you said "large scale projects"?

22 MR. HERLING: Primarily, I'm talking about the
23 impact on a project. Typically, we are talking about larger
24 projects on a megawatt basis. But you have a 1,000 megawatt
25 projects that impacts one or two lines, that are readily

1 upgradable, and the impact study is not terribly complex.

2 We have projects. Probably the most significant
3 is one project where the results of the feasibility study, I
4 think, identified 145 criteria violations. These are unique
5 facilities in an area where there are not a lot of solution
6 opportunities remaining.

7 So it will take a long, long time to delivery
8 comprehensive transmission solution to those criteria
9 violations. The dilemma that you find, and I could just
10 simply drop a 500 KV line in the middle of all of this, in
11 the hopes of involving all 145 violations.

12 But I'd have no way to demonstrate that that was
13 the most effective or the most efficient solution to the
14 customer, or that it's even remotely possible to build that
15 line in any reasonable period of time.

16 COMMISSIONER WELLINGHOFF: Let me understand.
17 Your software just can't handle it? Is that the point?

18 MR. HERLING: Not at all. The software
19 identified the violations fairly quickly. But then we have
20 to sit down and if I put in a 500 KV line, cost it out, see
21 whether or not it solves the problems, that's relatively
22 straightforward.

23 But if I start looking at either two 30 lines
24 that can be upgraded, I'm looking at 100. This is an
25 extreme case obviously. I'm looking at 145 different lines

1 that need upgrades.

2 First, that just takes a long time. Second, in
3 many of these cases, these may already be lines that we've
4 upgraded or power lines, where we've already hung a second
5 conductor. There's just nothing left to be done, other than
6 tearing it down and building something bigger.

7 A project that wants to go in service in three or
8 four years, and you come back and your answer is it's going
9 to take a minimum of ten to build the upgrades, is just not
10 a very satisfactory answer to the customer.

11 COMMISSIONER WELLINGHOFF: That project obviously
12 that's ahead of the queue of a number of smaller projects,
13 is going to have an impact?

14 MR. HERLING: The biggest problem with anybody
15 behind that project is that I don't even have a system to
16 study that second project against, until I put in --

17 COMMISSIONER WELLINGHOFF: So you know what your
18 solution is for the first?

19 MR. HERLING: I jumped a little ahead. I might
20 give him a cheap upgrade that happens to be there for the
21 taking. The first guy, with his 145 problems, is going to
22 look at me like "Wait a minute. That was mine. I was
23 first. I should have had the opportunity to pay for that
24 upgrade, as opposed to some bigger project later on."

25 MR. THOMPSON: If I may, it would seem to me if I

1 were the company that were asking about that project and put
2 in the request, and I found out I had 145 problems to deal
3 with, it's pretty unlikely I would actually go forward with
4 that project.

5 Going back to what I said earlier, if there are
6 any appreciable --

7 MR. HERLING: We just got that system impact
8 study we were assigned last week.

9 MR. THOMPSON: I withdraw the point.
10 (Laughter.)

11 COMMISSIONER WELLINGHOFF: So how did you solve
12 the 145 problems?

13 MR. HERLING: In that case, we simply took a
14 generic solution that we knew would be on an order of
15 magnitude of \$500 million and said this is the best we can
16 do at this point in time. If you want us to continue, we
17 will, and we'll spec them out in the impact study.

18 But we would have been working at a feasibility
19 study level. We wanted to get the customer that magnitude
20 of answer, to see whether or not they wanted to continue.

21 COMMISSIONER WELLINGHOFF: The answer you gave
22 them in the context of the feasibility study, and they said
23 "Okay fine, go ahead. Move forward with the impact study"?

24 MR. HERLING: Yes, and we have had others, less
25 significant. But going back to 1999-2000, we had projects

1 in our very first queue that caused similar problems of much
2 smaller magnitude, but similar, where it would take months
3 of extra time to solve that one problem before you could
4 then go on to the next project behind them, and the one
5 after that and the one after that.

6 COMMISSIONER WELLINGHOFF: You also talked about
7 another problem. How you get cascading studies if one
8 entity picks multiple interconnection points. They've got
9 somebody behind it. Because the points, it just kind of
10 multiplies sort of exponentially.

11 MR. HERLING: The original process we had
12 approved did not allow for multiple points of
13 interconnection. We went through the FERC process, that was
14 added in through the LGIA process. Basically, what we have
15 to do when we get to one of those projects is give them two
16 answers.

17 Then everybody after that starts to get
18 conditional results. It takes a lot of time and creates a
19 lot of uncertainty for a lot of projects behind that
20 project. With the two points of interconnection, it won't
21 make a difference.

22 But on of the ones where it does, it creates
23 uncertainty that doesn't get resolved until the next study
24 phase. When you have 100 generators in a queue, which is
25 what we're typically dealing with, anything that slows you

1 down has a big impact.

2 COMMISSIONER WELLINGHOFF: Thank you,
3 Commissioner Kelly.

4 COMMISSIONER KELLY: Mr. Herling, do you
5 anticipate PJM finding anything to improve the process? Are
6 you at that point in time yet?

7 MR. HERLING: Actually, we made a very minor
8 filing just recently, to make a few adjustments to the
9 process, because we have a queue starting on February 1st.
10 We filed it so that it could go into effect if approved on
11 February 1st.

12 It's essentially to try to levelize the workload
13 and one of the figures in my material shows how, in a six-
14 month period, we would get 40 percent of the requests in the
15 last month. In our most recent queue, out of 130 requests,
16 we got 51 on the last day.

17 So what we're hoping to do is try to levelize
18 that out a little bit. Our concern is that if you know the
19 six month queue is ending, if you slip into the next queue,
20 you potentially face an additional six months. Everybody
21 jumps in on the last day.

22 So we're going to three month queues. Since it's
23 pending, we probably shouldn't talk anymore about it. We
24 are working through our planning committee to look at a
25 number of other issues, milestones for example.

1 There have been suggestions around the costs of
2 studies needing to be increased. There have been
3 suggestions around eliminating multiple points of
4 interconnection.

5 We have had suggestions -- nobody has told us how
6 to do it yet -- that we should essentially take projects out
7 of the queue and study them.

8 If for example they're in New Jersey, because New
9 Jersey needs generation or Washington, D.C., and we should
10 isolate -- and this goes back to our RPM capacity market --
11 if you have an area that has a specific need, you should for
12 all intents and purposes jump those projects ahead of the
13 queue.

14 We haven't figured out how you balance back to
15 the fairness issue. How do you balance the rights of the
16 other projects, that may just simply be on the other side of
17 some line in the sand, and are now behind a bunch of other
18 projects.

19 So we're working our way through those and yes,
20 we clearly intend to move as many of them forward as fast as
21 possible. We may make multiple filings as we come to
22 consensus.

23 COMMISSIONER KELLY: I think that's a good
24 approach. I wanted to get your response and Mr. Rourke's
25 response or thoughts about Mr. Thompson's testimony as a

1 generator in the interconnection queue process.

2 I guess you're not in the transmission queue
3 process, just interconnection with MISO-PJM, some of the
4 difficulties, perhaps, of a small generator dealing with a
5 large RT0. Any thoughts, any way to make it more flexible
6 or more hands-on?

7 MR. HERLING: There are a lot of things that need
8 to be improved upon in the process, certainly within PJM.
9 We have made a lot of changes in our analytical procedures,
10 as well as our process of interacting with our transmission
11 owners and our generators.

12 Hopefully, the kinds of delays that AMP was
13 facing will be few and far between in the future. We have
14 had problems with some of the projects that connect at lower
15 voltages. Because of the non-jurisdictional sometimes, you
16 are getting down into systems that we do not plan for.

17 We really have no ability to manage the process
18 in the same way that we do if the same project was up on 115
19 KV for example. That isn't always the problem. Sometimes
20 those KVs go very quickly, based on the particular strength
21 of the system at that point.

22 Other times, it can be problematic.
23 Unfortunately, I don't have the particulars in that
24 situation. But clearly, that's just not an acceptable
25 turnaround for a study for a generator of that magnitude.

1 But we have had, in a number of cases, more
2 trouble than you would expect for projects down into the
3 distribution system.

4 MR. ROURKE: We've been faced with the same
5 issues. I would say we haven't had quite that extreme a
6 case that AMP has gone through. As I said, we have roughly
7 95 units that are in the queue right now.

8 Roughly two-thirds of them are actively under
9 study. The other third are either near the tail-end and
10 we're working with the transmission owners on the facilities
11 studies and having IA decide. They're on the very early end
12 on setting up scoping meetings and getting studies moving
13 forward.

14 We do try to be very hands-on with the developers
15 and the affected parties, as they are identified.
16 Jurisdiction-wise, the same type of issue for us. Some of
17 the generators in our queue do basically fall out of our
18 tariff. They're under the jurisdiction of the states.

19 So the interaction in that case is actually
20 primarily with the transmission owner, much less so with the
21 ISO. We for the most part study 69 KV and up, and we don't
22 observe really anything lower than that in our studies, much
23 like the challenges that Steve raised.

24 I have heard folks on this panel and earlier
25 panels that did put out dates that seemed unacceptably long.

1 But we've not had that experience.

2 COMMISSIONER KELLY: Ms. O'Connor, it's very
3 encouraging that New England is working and has made a lot
4 of headway on improving queue management in the New England
5 ISO, RT0. What can we do short of attending stakeholder
6 meetings which, I suspect, staff will?

7 MS. O'CONNOR: We welcome the inclusion of FERC
8 in that process. Really what we're looking to do is to
9 continue with the process we've established, and to work
10 through it. You heard Commissioner George earlier talk some
11 of the things that Connecticut is suggesting.

12 I'd like to answer your question with just a
13 brief anecdote about the last meeting that we had, which was
14 pretty interesting, because what we're finding in New
15 England, Steve and I talked about this earlier, is when you
16 bring companies together and stakeholders together and
17 they're not quite sure what their position on things, one of
18 the things that comes out of that is a really amazing
19 dialogue with some very good suggestions.

20 Connecticut, through Andy Speck, gave a
21 presentation at our last interconnection meeting, and there
22 was a tremendous level of give and take between the
23 generator community and Connecticut and some of the other
24 states, as to what we were going to do.

25 I guess in answering your question, Commissioner

1 Kelly, I think it is to let us continue with this process,
2 with a finite end in October of filing something with the
3 Commission.

4 Hopefully, we will resolve it, as I mentioned in
5 my comments, and we will define for the Commission what we
6 are unable to resolve.

7 COMMISSIONER KELLY: You're going to have a dead
8 but skinny cat?

9 (Laughter.)

10 MS. O'CONNOR: That's our hope.

11 COMMISSIONER KELLY: So since you worked together
12 on the schedule, I assume that the filing here in October is
13 not going to interfere with the FPM process?

14 MS. O'CONNOR: I'm looking at my colleague, Steve
15 Rourke. But no, that was taking into consideration the
16 discussion.

17 MR. ROURKE: Actually, it collides into the
18 window between the first auction, which is being run
19 February of '08, and the second auction being run in
20 December '08. We've got a little slice of time there in the
21 middle to complete that work.

22 COMMISSIONER KELLY: Staff, do you have any
23 questions?

24 MR. GASTEIGER: Just a follow-up on Commissioner
25 Kelly's question. The issue seems to be related to synching

1 up the forward capacity market with the interconnection
2 queue.

3 Looking over at PJM, I don't know to what extent
4 with their RPM they've had to deal with this issue, whether
5 it's been a problem or not.

6 If it is or it hasn't, whether there's anything
7 that New England could perhaps learn from PJM or their
8 experience, and whether there's been any dialogue between
9 PJM and ISO in New England over how they've handled that
10 issue.

11 MR. HERLING: The only real issue that we had to
12 deal with with RPM was because of the nature of the interim
13 auctions. We had the process through a number of years in
14 short order. We had to get a lot of generators to milestone
15 points where they could bid into a particular market.

16 In addition to running all these other studies,
17 we have processed dozens and dozens of interconnection
18 service agreements for generators that were nearing that
19 point in the standard process but clearly would not be able
20 to get there.

21 So we have to do extra studies for that ahead of
22 schedule, to say okay, you'll be ready in 2007 or 2008 or
23 2009, or whatever the year would be. It added a significant
24 workload requirement for us. Our hope is that now, as we
25 move forward, going to one auction a year, those time lines

1 will be synchronized with the rest of the planning process,
2 and that will no longer be an issue. This first year was a
3 lot of extra work.

4 MR. ROURKE: I would just add, Larry, we always
5 certainly learn from other ISOs and RTOs on things. When
6 you think about the FCM, and we also have an Order from all
7 of you, to come up with an interzonal deliverability
8 standard, there's a deliverability standard of sorts that's
9 actually in the market right at the moment.

10 We very much based the approach on what PJM does
11 in that area. Going forward with how we would work to align
12 the FCM with getting generators through the queue.

13 I envision, not to guess the answer here, because
14 we've got months of work left to do, but I envision the
15 deliverability standard will find its way into our Schedules
16 22 and 23 of the tariff, the LGIP and SGRP as an example,
17 based very much on what PJM has in place now.

18 We are actually in the tariff now, and have only
19 one way for units to interconnect that have come forward,
20 the minimum interconnection standard.

21 There are, I believe, at least two different
22 standards in the PJM tariff, where you can step forward
23 either as an energy-only type of unit that wants to
24 participate in markets, or to participate as a resource in
25 that market.

1 I'd be surprised if we didn't end up actually
2 moving back much more toward pro forma, and having the two
3 products in our tariff. We are certainly doing some
4 homework. We may need to invite Steve to one of our
5 stakeholder meetings, and help us out. But we're certainly
6 doing that.

7 MR. PALMER: I had a couple of questions. First
8 of all, Steve, maybe you can answer this, and also Mr.
9 Rourke. The issue has come up a number of times about the
10 restudies.

11 What it sounds like is potential for many
12 combinations and permutations that can result from the
13 contingencies of the other projects in the queue. Have you
14 looked at any way to try to automate this process?

15 It almost sounds like, and I don't know in fact
16 whether you actually have sort of custom-engineered projects
17 for every study, but is there some way that the process
18 could move faster, if you had either better automation or
19 better models or something like that?

20 MR. HERLING: Most of our analysis is in fact
21 automated. The part that takes the most time is identifying
22 viable solutions. You put them in and you retest, but the
23 retesting is automated largely.

24 There is no good way to automate the
25 identification of solutions, other than at a very, very

1 general level. At the end of the day, you have to know
2 whether or not you can build a line between Point A and B,
3 or upgrade the conductor, or add a transformer and a
4 substation.

5 The only way to do that is a lot of back and
6 forth with the transmission owner. The obvious solution may
7 be to add a transformer in a substation, but there may not
8 be any space. So then you look at upgrading the size of the
9 transformer, and that may not get you where you need to be.

10 So now you're looking at some other solution, at
11 some other substation. So that really is what takes time.
12 The suggestion made earlier today to essentially do the
13 analysis in tiers would get you some of the way there.

14 But typically when we do a cluster, the
15 generators are electrically close together but not sitting
16 on top of each other. It's not just a simple subtraction
17 situation. You remove a generator at Point A, you get a
18 different result, than if you remove a generator at Point B.

19 You could get some of the way there if you did
20 the studies as described earlier, in kind of a tiered
21 fashion. But you wouldn't necessarily have all the
22 combinations accounted for.

23 MR. ROURKE: Ray, one of the tools that we lost,
24 and maybe more importantly that the developers lost
25 following Order 2003 was the ability for them to ask for an

1 optional study first.

2 After Order 2003 came out, we're obligated now by
3 the tariff to do the sequential study. So we needed Study
4 No. 1 fully before we look at No. 2, to do fully before we
5 look at No. 3, etcetera.

6 I think Sean made very good points earlier. They
7 actually know better, the ISO does, who of their competitors
8 that are in the queue are real or not? Through an optional
9 study, they could come forth to us and say "You know, do my
10 first study, but ignore these other five generators are
11 ahead of me in the queue, because I know, I have a sense
12 that they're not going to come forward."

13 Many of the units that we had built coming out of
14 the late 90's during the building boom went down that
15 route. They knew that if they could get in first, their
16 competitor in fact might not follow.

17 We would do that study first with them. They
18 would have a sense, in that kind of a world, what they would
19 need to do to interconnect. We would then follow it up with
20 the fully study, such that they knew, and it was their risk
21 that if those other units came forward, they would also be
22 operating this line for the substation, those kinds of
23 things.

24 But the ability to maybe give that flexibility
25 back to our developer starts to help with some of the

1 restudies, because then one or two of those three units in
2 fact do drop out of the queue, you've already done that
3 study and you're not going back one at a time, and doing it
4 over and over again.

5 That's an area where I think we could certainly
6 give some thought to that.

7 MR. PALMER: Is there some potential gain for
8 more transparency in the process, in terms of is there data
9 available that people can do their own studies, or is it all
10 proprietary to the T0 or the RT0 that's doing the work?

11 MR. HERLING: Our case is while they are
12 certainly protected, if you go through the appropriate
13 mechanisms for CEII, they're all available, you know. Every
14 year we have a base case that we develop for our RTEP
15 process. We then have a base case that starts at the next
16 cycle of impact studies.

17 You have to go through the right steps. But you
18 can get those cases and get a consultant and do whatever
19 analysis you want.

20 MR. ROURKE: One area that also changed as a
21 result of Order 2003 for us is prior to that order, we
22 showed the name of the developer next to the list of all the
23 units in the queue. Now we're obligated to redact that
24 name.

25 They all seem to know who they are, so I'm not

1 sure it matters. But now where a new unit comes forward,
2 takes out an obligation through the auction and finds they
3 get snagged because their equipment isn't going to show up
4 in time, they get stuck with their site, and they're just
5 going to be late.

6 Being transparent to the balance of the queue,
7 where they could betray their position to somebody else,
8 that's much more clear that through the queue list itself
9 being, more transparency, might be helpful.

10 MR. MCCLELLAND: A question for Mr. Hurley and
11 Mr. Rourke. I heard the witnesses today on the panels.

12 I had a question at the conclusion of this. The
13 question would have been if you could wave the magic wand,
14 if we could grant you three wishes to make this process
15 better, what would the wishes be? I'll take a shot at these
16 wishes, but I'm going to do it in reverse order, okay.

17 I would say the first wish would be actually
18 number three would be resources. I've heard the models are
19 automated, which we knew, and it's fairly easy to manipulate
20 the models based on where the generation injection is or
21 what falls out as far as the criteria and reliability
22 standards.

23 But still, people in modeling and resources is an important
24 criteria.

25 Second would be the seriousness of the folks that

1 are in the queue themselves, whether or not someone's going
2 to take the project to fruition.

3 There have been some proposals, as far as
4 posturing, as far as accountability, maybe even some second-
5 guessing or some educated guesses, as far as whether or not
6 an entity really is serious or is speculating on the
7 position. But the last one wasn't so clearly stated.

8 When I listened to you in particular, Mr.
9 Herling, and your comments were very helpful as far as what
10 some of the complexities are and the problems are when one
11 actually models the system, one evaluates what the impacts
12 of the system were.

13 It sounds as if the easier projects have been
14 picked over, that now it looks as if the more difficult
15 construction needs to be made to accommodate some of these
16 larger projects.

17 Much of the time that's spent in the queue is to
18 try to evaluate what might be simpler or what might be
19 projects that can proceed with certainty. But siting seems
20 to be a problem as far as siting additional transmission
21 facilities.

22 The 500 KV line you referred to experiencing into
23 the substation for another transformer. Would that be a
24 correct summary? Do I have it right? Maybe siting last,
25 and maybe the most difficult challenge coming through the

1 queue process.

2 MR. HERLING: Developing an impact study when you
3 have complex upgrades. That really is what kills you, and
4 unfortunately, as I described before, it has an impact of
5 propagating through the rest of the queue.

6 For example, Northern Jersey is one of our
7 tougher areas. If you'll look at our RTEP and you look at
8 the impact studies that are out there on the web, I think
9 we're probably upgrading every line in the entire state.
10 There's nothing left to do, you know.

11 Every study that comes along, even if it's for an
12 100 megawatt peaker, it can be a challenge just to find an
13 upgrade to squeak those extra megawatts out onto the system.

14 MR. MCCLELLAND: In LMP, the pricing in these
15 locations highlights that issue. In other words, that's why
16 the price is so high, because capacity is scarce. Is that
17 correct?

18 MR. HERLING: LMP is certainly high and capacity
19 prices are certainly high in Jersey because of the load
20 generation balance. You know, the load in Jersey is growing
21 perhaps a little bit faster than the average NPKM.

22 But the system is just a very densely populated
23 area, and it's more dense all the time. That complexity,
24 and it's not just Jersey, it's elsewhere as well. But
25 that's the fundamental problem that makes some of these

1 impact studies so hard to complete quickly.

2 MR. ROURKE: I would say we were in very much the
3 same box in Southwest Connecticut for years. We needed more
4 transmission built to serve the load. We needed more units
5 to interconnect now to serve the load. Until we fixed the
6 problems with the transmission lines, we actually were not
7 able to interconnect with the new units.

8 So they were just really stuck in a box, and it
9 took years, as all of you know, to study and site that,
10 dealing with the underground issues which we all dealt with
11 down in Southwest Connecticut. So that was our worst area.

12 But really the same story. These are complex
13 studies to do and there's times that, as odd as it sounds,
14 you can't even tie in a unit to fix the problem, because you
15 need the wires to be able to make that commitment.

16 So I would say your top three list, I hadn't
17 thought through it, but looks like a pretty good top three
18 list to me.

19 MR. PALMER: Just to follow up on Mr.
20 McClelland's question from a little bit different angle, I
21 should note that what you brought up also, Mr. Herling, was
22 that in addition to your concerns, such as the RPS standards
23 of whatever the term, there may be an issue that could
24 warrant some queue-jumping, if you will, where there are
25 terribly congested areas.

1 In fact, there could be some looming reliability
2 problems, even if the standards aren't being violated now.

3 I just wanted to know, do you have any sense of
4 whether some of the smart grid-type solutions might help in
5 managing those areas better, and perhaps creating some
6 opportunities that can give you more time to create the kind
7 of physical hardware solutions that you're thinking about
8 now?

9 MR. HERLING: We're trying to keep our eyes open
10 for all the possibilities that advanced technology may
11 bring. The simplest of those are the newer conductor
12 technologies.

13 I wouldn't necessarily put that in the smart grid
14 bucket, but we've looked at some of the newer conductor
15 technologies, to get every megawatt out of a particular
16 corridor that we possibly can.

17 In terms of controllability, we'll look at
18 anything. But moving megawatts from one place to another,
19 it only optimizes what you have. We're at a point where we
20 need more. So optimization is good; more is better.

21 COMMISSIONER KELLY: Thank you very much. We
22 really appreciate this panel giving us a different
23 perspective. In the East compared to the Midwest and the
24 West, I'd like to ask my colleagues if they have any
25 concluding comments they might want to make.

1 (No response.)

2 COMMISSIONER KELLY: I'll just take a stab at a
3 few. First, I was really struck by the meatiness of all of
4 the testimony. I want to express on behalf of the
5 Commission our thanks for spending the time and the effort
6 to really give us the benefits of your thoughts, and your
7 experience in the detail that you did.

8 As Ray mentioned at the beginning, the record
9 will be open for 30 days. We encourage anybody who wants to
10 submit additional comments to do so. Based on the testimony
11 here today, I anticipate that we'll have filings from most,
12 if not all of the ISOs and RTOs, over the course of a year,
13 some of them sooner rather than later.

14 We want to thank you in advance for that. Staff
15 and the Commission will be staying on top of this. We're a
16 resource; staff's a resource for you as you need it, and
17 we'll be staying in touch with you all as you go through
18 your efforts.

19 We know that getting the queue management
20 improved is important to you and it's very important to us.
21 I think that what we saw today was that there are concerns
22 across the country, but they've very diverse concerns.

23 So it does seem to be appropriate that we
24 approach this on a region or even a sub-region basis.
25 Everyone wants to see the queue management process improved,

but it's in response to different concerns.

I personally learned a lot, and I thought that there's a good cross-pollination of ideas. People in the West thinking about the issues from a different perspective than people in the East. Having maybe some of the same problems we're thinking about it differently, being able to share those has been valuable to me.

It's clear that people that have been here today have been thinking about queue management for a long time, and have been thinking about solutions to it for quite a while.

We appreciate the efforts that you've gone through and look forward to your filings. Thank you very much for your contributions today.

Since the Chairman gave me this, I'm going to use it. Thank you.

(Whereupon, at 4:25 p.m., the technical conference was adjourned.)