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BEFORE THE  
FEDERAL ENERGY REGULATORY COMMISSION

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IN THE MATTER OF: :  
CONSENT MARKETS, TARIFFS AND RATES - ELECTRIC :  
CONSENT MARKETS, TARIFFS AND RATES - GAS :  
CONSENT ENERGY PROJECTS - HYDRO :  
CONSENT ENERGY PROJECTS - CERTIFICATES :  
DISCUSSION ITEMS :  
STRUCK ITEMS :  
- - - - -x

888TH COMMISSION MEETING

OPEN MEETING

Commission Meeting Room  
Federal Energy Regulatory  
Commission  
888 First Street, N.E.  
Washington, D.C.

Wednesday, May 4, 2005

10:17 a.m.

1 APPEARANCES:

2 COMMISSIONERS PRESENT:

3 CHAIRMAN PAT WOOD, III, Presiding

4 COMMISSIONER NORA MEAD BROWNELL

5 COMMISSIONER JOSEPH T. KELLIHER

6 COMMISSIONER SUEDEEN G. KELLY

7 SECRETARY MAGALIE R. SALAS

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19 ALSO PRESENT:

20 JANE W. BEACH, Reporter

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

2 (10:17 a.m.)

3 CHAIRMAN WOOD: Good morning. This open meeting  
4 of the Federal Energy Regulatory Commission will come to  
5 order to consider the matters which have been duly posted in  
6 accordance with the Government in the Sunshine Act for this  
7 time place.

8 Let's start with the Pledge to the Flag.

9 (Pledge of Allegiance recited.)

10 CHAIRMAN WOOD: Before we do the consent agenda,  
11 I wanted to make a couple of announcements. The first is  
12 that on our web page, we have a new item of historical  
13 interest. We've been a critical player, of course, in  
14 disclosing the role that Enron and other energy providers  
15 played in exploiting and exacerbating the energy crisis in  
16 California and in other western states in 2000 and 2001.

17 The Commission has collected and analyzed more  
18 than five terabytes of data, issued subpoenas and show-cause  
19 orders, and held hearings over the course of many months.

20 To date, the result of this unprecedented and  
21 comprehensive investigation has been \$4.3 billion in  
22 monetary settlements stemming from the crisis, and findings  
23 by the Commission contributed to numerous prosecutions by  
24 the Department of Justice, and \$300 million in civil  
25 penalties imposed by the CFTC.

1                   Significant proceedings are still underway at the  
2 Commission, and a final Commission Order directing refunds  
3 for power sales in the market during 2000 and 2001, is still  
4 pending.

5                   And in the Enron market gaming proceeding, FERC  
6 administrative litigation staff is moving forward there on a  
7 number of items, as well.

8                   So we thought it was a good time to put a  
9 detailed chronology of all these activities, since people do  
10 tend to forget, and others tend to write history with a  
11 little more fiction than fact. So we thought we'd get out  
12 the facts there, and so please go to our website, and there  
13 is a link on there from the front page to the Electric  
14 Industries subpage, and the several-page document that walks  
15 you through the factual history of the western  
16 investigation.

17                   A second item is on power shortages. As we look  
18 ahead to the Summer -- and I think we got a pretty good  
19 report at yesterday's NERC meeting, but we know there are  
20 some potential parts of the country where there might be  
21 some trouble, which we'll talk about later in this meeting.

22                   I did want to say that Section 202(g) of the  
23 Federal Power Act, which implements Section 206 of PURA,  
24 requires the Commission by rule to have each public utility  
25 report promptly to the Commission, any anticipated shortage

1 of electric energy or capacity which would affect that  
2 public utility's ability to serve its wholesale customers.

3 In conformance with the statutory provision, our  
4 regulations, which were adopted many years ago, Part 294  
5 defines anticipated shortage of electric energy and capacity  
6 and sets forth reporting requirements for public utilities.

7 Among other things, a report filed pursuant to  
8 Part 294, must include the nature and projected duration of  
9 the anticipated shortage, a list of customers likely to be  
10 affected by it, and procedures for accommodating.

11 So, to implement this requirement, the Division  
12 of Reliability has set up a pager that transmits e-mail  
13 messages to an employee on duty at the time the notification  
14 is anticipated. This pager is carried 24/7 by the Division,  
15 in order to ensure that the bulk power supply shortage  
16 information can be sent by the utility and received by FERC  
17 at any time, and that FERC can, therefore, use it in the  
18 context of our interactions with other federal agencies to  
19 try to ameliorate or address these crisis or shortage  
20 situations.

21 The emergency e-mail address is  
22 emergency@ferc.gov, and we will, in the near future, be  
23 changing our rules formally through an instant final rule,  
24 procedural rule, to add that e-mail address as an additional  
25 way of complying with our year's long requirement that

1 utilities report such information promptly to the FERC, so  
2 that we can work with both other FERC-regulated entities  
3 such as ISOs and RTOs, as well as work with NERC, with the  
4 Department of Homeland Security, and with state and local  
5 officials on these important issues.

6 We hope they don't come up, but if they do, we  
7 want to have the right information.

8 Madam Secretary?

9 SECRETARY SALAS: Good morning again, Mr.  
10 Chairman, and good morning, Commissioners. The following  
11 items have been struck from the agenda since the issuance of  
12 the Sunshine Notice on April 27th; they are: E-1, E-2, E-  
13 28, E-34, E-62, E-63; G-18, and G-20.

14 Your consent agenda for this morning is as  
15 follows: Electric Items - E-3, 4, 9, 10, 13, 14, 16, 17,  
16 18, 19, 20, 24, 26, 27, 29, 32, 33, 35, 36, 37, 38, 39, 40,  
17 41, 42, 43, 46, 47, 48, 51, 51, 55, 57, 58, 59, 60, 61, 65,  
18 and 66.

19 Gas Items: G-1, 4, 6, 7, 9, 11, 12, 14, 15, 17,  
20 and 21.

21 Hydro Items: H-1, 2, 3, 4, 5, 6, and 7.

22 Certificates: C-1.

23 As required by law, Commissioner Kelly is recused  
24 from the following items on the consent agenda: E-3, E-4,  
25 E-19, E-36, R-51, and E-65.

1                   The specific votes for some of the items on the  
2 consent agenda are: E-3, Commissioner Kelliher dissenting,  
3 in part, with a separate statement; E-4, Commissioner  
4 Kelliher dissenting, in part, with a separate statement; E-  
5 14, Commissioner Kelliher dissenting, in part, with a  
6 separate statement; E-33, Commissioner Brownell concurring,  
7 with a separate statement; E-37, Commissioner Kelly  
8 dissenting, in part, with a separate statement; E-38,  
9 Commissioner Kelly dissenting, in part, with a separate  
10 statement; E-39, Commissioner Kelly dissenting, in part,  
11 with a separate statement: E-40, Commissioner Kelly  
12 dissenting, in part, with a separate statement; E-55,  
13 Commissioner Kelliher dissenting, in part, with a separate  
14 statement; E-59, Commissioner Kelliher dissenting, in part,  
15 with a separate statement; G-1, Commissioner Brownell  
16 dissenting, in part, with a separate statement; G-4,  
17 Commissioner Brownell concurring, with a separate statement;  
18 H-2, Chairman Wood dissenting, in part, with a separate  
19 statement.

20                   Commissioner Brownell votes first this morning.

21                   COMMISSIONER BROWNELL: Aye, noting my dissent on  
22 G-1 and concurrence on G-4 and E-33.

23                   COMMISSIONER KELLIHER: Aye, noting my partial  
24 dissents in E-3, E-4, E-14, E-55, and E-59.

25                   COMMISSIONER KELLY: Aye, with the exception of

1 the recusals and the dissents noted by the Secretary.

2 CHAIRMAN WOOD: Aye, with the dissent, in part,  
3 on H-2.

4 Before we go on, I wanted to comment on a couple  
5 of items, just to report, publicly, what happened on two  
6 groups of items. The first is E-35, which was a remand in  
7 the Nevada Power Company case, which was captioned before  
8 the D.C. Court of Appeals as Entergy Services v. FERC.

9 This remand order explained why the Commission  
10 policy that network upgrades include all facilities at or  
11 beyond the point at which a generator connects to the grid,  
12 is a reasonable policy. This order applied our current  
13 policy that the cost of interconnection facilities should be  
14 paid by the interconnection customers because they are the  
15 ones who benefit from the upgrade, but that the cost of  
16 network upgrades that provide a benefit to all transmission  
17 system users, should be paid for by all transmission  
18 customers.

19 This Order clarified that when a preexisting  
20 substation is used for the interconnection, substation  
21 upgrades benefit all customers. And then in the series of  
22 market-based rate Orders, we continue our implementation of  
23 policies that were adopted over the past three years,  
24 relating to the ability of wholesale electric power  
25 companies to sell at market-based rates, if they and their

1 affiliates do not have or have adequately mitigated market  
2 power in generation and transmission and cannot erect other  
3 barriers to entry by their suppliers.

4 The Commission also considers whether there is  
5 evidence of affiliate abuse or reciprocal dealing. The  
6 following actions on market-based rates were taken today:  
7 In E-3 and E-4, the Commission granted, in part, and denied,  
8 in part, a December Order in Entergy and Southern Companies,  
9 relating to their market-based rates in the 206 proceeding  
10 that have been initiated thereunder.

11 We had granted a new request for market-based  
12 rates to Public Service Electric and Gas Company and PSEG  
13 Energy Resources in E-17. And in E-9, we accepted updated  
14 market power analysis from Portland General Electric  
15 Company, Oregon Electric Utility Company.

16 Also, on E-20, with Reliant Energy Cool Water,  
17 and Black Hills Colorado in E-29. In E-30, we conditionally  
18 accepted updated market power analysis from ConEd of New  
19 York, and in E-26, 27, and 65, we initiated 206 proceedings,  
20 requiring updated market power analyses from LG&E Energy  
21 Marketing, Pacificorp, and PPM Energy and Progress Energy,  
22 Inc.

23 And I think Joe had some thoughts on E-30.

24 COMMISSIONER KELLIHER: Thank you, Mr. Chairman.  
25 I just want to make some comments about E-30, and some

1 general issues that it presents.

2 In E-30, the Commission accepts and updated  
3 market power analysis submitted by ConEd, subject to a  
4 requirement that ConEd file information that they were  
5 actually required to file nearly two years ago. And this  
6 Order highlights a problem that exists on the Commission's  
7 current market power test.

8 Public utilities are authorized to charge market-  
9 based rates -- public utilities that are authorized to  
10 charge market-based rates, are required to submit an updated  
11 market power analysis at the end of a three-year period.

12 If that analysis demonstrates the absence of  
13 market power, or if they mitigate their market power, the  
14 applicant can continue to charge market-based rates, but,  
15 otherwise, absent that kind of showing or mitigation, the  
16 Commission may initiate a 206 proceeding and revoke their  
17 market-based rate authorization.

18 In this instance, ConEd was required to file an  
19 updated market power analysis on June 9, 2003. It did not  
20 do so. In fact, Con Ed waited 17 months until November of  
21 2004, to file its analysis.

22 In even analysis it eventually filed, was  
23 woefully deficient. The Commission Staff invested their  
24 time and energy, repairing the deficiencies in ConEd's  
25 filing.

1                   So, ConEd's filing was both late and deficient.  
2                   I don't know why ConEd ignored the Commission's deadline.  
3                   Perhaps it's arrogance; perhaps it's indifference, or  
4                   perhaps it's sheer incompetence, but I don't think it really  
5                   matters, why they were late.

6                   It just matter that they were late and deficient.  
7                   And I think the Courts have told us, as recently as last  
8                   year, that the Commission needs to have strong regulatory  
9                   requirements to ensure that public utilities with market  
10                  power, cannot exercise market power.

11                  In my view, that means assuring that market-based  
12                  rateholders that ignore filing deadlines such as the  
13                  triennial review, cannot continue to charge market-based  
14                  rates. And that can be accomplished in a number of ways:  
15                  One, the Commission could perhaps sunset the market-based  
16                  rate authorization, so that it ends at a certain date,  
17                  putting the onus on the holder of market-based rates to file  
18                  in a timely manner, since there would be consequences for  
19                  failure to file.

20                  Or the Commission could perhaps provide for an  
21                  automatic Section 206 proceeding, if the updated market  
22                  power analysis is not filed in a timely manner.

23                  It's important to remind people that market-based  
24                  rates is a privilege and not a right, and that late filers,  
25                  in my view, should be exposed to disgorgement of profits,

1 and perhaps that would induce timely filings and complete  
2 filings.

3 Now, ConEd apparently is not the only offender.  
4 We've seen a number of late filings in my brief time,  
5 relatively brief time here, and apparently Commission Staff  
6 has been looking into this and has found, actually, a pretty  
7 large number of late filings.

8 I was going to say that ConEd may be the worst  
9 offender, but now we know that they're not, that there are  
10 many other entities that have been much later than 17  
11 months.

12 So, I think it's a generic problem. It kind of  
13 is highlighted by the ConEd Order, but after further  
14 inquiry, we know that ConEd is not alone, and that perhaps  
15 the Commission should take some action to induce filings. I  
16 think that, in the course of the rulemaking, we should  
17 address this issue.

18 So those are my comments. Thank you.

19 CHAIRMAN WOOD: Great, thanks, Joe. In light of  
20 the inquiry that Joe talked about, we've identified well  
21 over 100 companies that are either deficient or have not  
22 filed at all, including a couple of the others on the list  
23 today -- Progress Energy and LG&E, for sure, had either  
24 deficient or late filings and 206s were initiated there.

25 I would recommend -- and, Cindy, if you could

1 work with the market-based rate team on identifying these,  
2 but I think, as we did last year with the EQRs, let's issue  
3 a proposal to suspend under Section 206, all the people who  
4 are late, and just kind of generically deal with this, and  
5 then make it part of our going-forward process, that when we  
6 haven't heard from somebody on their third anniversary or  
7 whenever they're required to file, that we, as a matter of  
8 routine process -- and I would say that we could probably  
9 put this under delegated authority, even, initiate a 206 to  
10 suspend the operation of the market-based rate authority, so  
11 that we get clear compliance with that.

12 Otherwise, I think Joe's recommendation about  
13 finding some way to sunset, which I know is a little  
14 awkward, might be a good way to move forward, but, in lieu  
15 of that, I think that just being alert to the people we have  
16 and when their anniversary dates are, would be a good way to  
17 ensure compliance.

18 It's not productive to spend as much time as  
19 we've had to spend rehabilitating either deficient filings  
20 or trying to find out where the filings are in the first  
21 place.

22 Sudeen?

23 COMMISSIONER KELLY: Mr. Chairman, I'd like to  
24 add comments to E-35. In large part, this case was remanded  
25 to us because the Court acted on a presumption that was

1 erroneous. We explain it in the Order, and I'd like to  
2 clarify that here.

3           The Court in this case presumed that  
4 interconnection facilities must be located at the point of  
5 interconnection, however, rarely is the point of  
6 interconnection located at the generating facility itself.  
7 In virtually all cases, interconnection facilities, for  
8 example, a radial line, poles, support switches, meters,  
9 must be constructed to provide an electrical connection  
10 between the generating facility and the transmission system  
11 at the point of interconnection.

12           Thus, when we refer to interconnection  
13 facilities, we are not referring to facilities at the point  
14 of interconnection, but rather to all facilities and  
15 equipment from the generating facility, up to, but not  
16 including the point of interconnection.

17           Now, the Court in this case got it wrong and  
18 remanded it to us, but we explained that in our Order, and,  
19 therefore, the \$3 million in direct assignment  
20 interconnection costs at issue in the Consumers Energy case,  
21 which was precedent for this case, were not costs for  
22 facilities at the point of interconnection.

23           And Consumers Energy, therefore, is consistent  
24 with the policy which we also applied to Nevada Power in  
25 this case.

1                   CHAIRMAN WOOD: Great, Sudeen. Thank you. I  
2 wanted to add one more item that was also on the consent  
3 agenda, that is of interest.

4                   In E-66, the Commission initiates under Section  
5 206 of the Federal Power Act, an examination of affiliated  
6 abuse concerns within the Southern Company system.

7                   Specifically, the Commission will investigate the  
8 justness and reasonableness of the Southern pooling  
9 agreement, which is referred to as the Intercompany  
10 Interchange Contract, whether there are any violations of  
11 the standards of conduct and whether the code of conduct  
12 that is employed there, is just and reasonable.

13                   This relates to a creation of NUCO, which has  
14 since become Southern Power Company in a May 2000 compliance  
15 filing with the Commission. And the evolution of that  
16 relationship since that time, will be investigated in the  
17 proceedings begun in E-66.

18                   So, I think that's probably all the main items.  
19 There are a lot of other interesting things in there, and I  
20 want to thank again, the hard work of the Staff and our own  
21 Staffs up here to get through a significant number of Orders  
22 that really do, again, continue to erode away at our ever-  
23 decreasing backlog and get us current on all of our items.  
24 We appreciate the hard work that everybody does to get that  
25 done.

1                   SECRETARY SALAS: Mr. Chairman, for the record,  
2 on E-3, I need a vote, so if we can go ahead and vote?

3                   COMMISSIONER BROWNELL: Aye.

4                   SECRETARY SALAS: That was your first item for  
5 discussion. It was not part of your consent agenda.

6                   CHAIRMAN WOOD: Ah-ha, got it.

7                   COMMISSIONER KELLY: Aye.

8                   COMMISSIONER KELLIHER: Aye.

9                   CHAIRMAN WOOD: Aye.

10                  SECRETARY SALAS: Great, thank you. The second  
11 item for discussion this morning is A-5. This is NERC  
12 Compliance Audits. This is a presentation by Mr. David Hilt  
13 from the North American Electric Reliability Council.

14                  CHAIRMAN WOOD: We welcome back the former Deputy  
15 General Counsel of FERC, and now General Counsel of NERC,  
16 Mr. Cook.

17                  MR. COOK: Thank you, Mr. Chairman.

18                  MR. HILT: Good morning, Mr. Chairman and  
19 Commissioners. I think I have a presentation, if it can be  
20 put up on the screens, please.

21                  (Slide.)

22                  MR. HILT: Thank you. Today I want to just  
23 provide a very brief and high-level overview of the results  
24 of our 2004 compliance enforcement program in which we  
25 monitor compliance with a number of our standards.

1           Of course, much more detail is provided today on  
2 the NERC website in terms of our quarterly reports through  
3 the recent adoption this past year of the disclosure  
4 guidelines by our Board, and there will ultimately be, very  
5 shortly, a final 2004 program report to compare to the other  
6 annual reports that are up on our website.

7           Next slide, please.

8           (Slide.)

9           MR. HILT: I want to give a little background on  
10 what we actually monitor in the compliance program. Much as  
11 it was with the securities industry, as we patterned our  
12 compliance program after, there are many, many rules within  
13 our book of rules, if you will.

14           And if you look at the new standards that the  
15 Board recently adopted, there are 91 standards, over 800  
16 requirements in those standards, and we have to selectively  
17 do a little work with the monitoring.

18           Some of those are monitored every year in the  
19 program; some of them are periodically monitored on a  
20 rotating basis. The key is that we want to make sure that  
21 they're very central to reliability.

22           A number of the standards themselves, build upon  
23 each other. For example, in the area of balancing resources  
24 and demand, there are a number of requirements for  
25 generators and balancing authorities to include on their

1 equipment to be able to balance actively, the generation and  
2 the load, but what we really monitor is the performance of  
3 that, which was called control performance.

4 As we go through this, we don't actively monitor  
5 every little piece that builds on that. The standards vary.  
6 Many of them are event-based, for example, from operating  
7 security limits. If someone goes over an operating security  
8 limit, that would be an event-based.

9 Others are monthly, such as, did you have NERC-  
10 certified operators on duty throughout the entire month?  
11 Others are quarterly, and some are even annual, primarily in  
12 the planning arena.

13 Next slide, please.

14 (Slide.)

15 MR. HILT: The monitoring is accomplished through  
16 our regional programs. We have ten regions that monitor  
17 directly with their members. We use a good deal of self-  
18 assessment and self-certification on the ongoing basis.

19 They are backed up by a three-year periodic audit  
20 of compliance with the particular rules, and, finally,  
21 there's often investigations. If an event occurs or if  
22 there's a complaint, that can trigger investigation within a  
23 region.

24 The regions report those violations now directly  
25 to NERC, and we post quarterly and annual performance

1 reports on the NERC website. The first four quarters are  
2 now up on the website, with the last two including the names  
3 of the violators, as approved in our disclosure guidelines.

4 So, what are the results? Next slide, please.

5 (Slide.)

6 MR. HILT: In 2004, 318 violations of the NERC  
7 standards were identified through the compliance program.  
8 That's down from 360 that were in the 2003 program.

9 The results are very encouraging. We need to  
10 recognize that, as I said, some of the items rotate in and  
11 out of the program, some of them have not been monitored for  
12 several years, so we include them back in the program, so  
13 it's a little hard to do some very, very direct comparisons.

14 But when we do do a direct comparison, for the  
15 same measures that were in the program in 2003 that are in  
16 it in 2004, we saw a 33-percent reduction in the number of  
17 violations for those specific measures.

18 That may seem like a lot of violations, 318 for  
19 the year, but we have to remember that in the past year,  
20 there were 150 control areas and 18 reliability coordinators  
21 that we're monitoring to the 40-plus compliance measures  
22 that are in the program.

23 There are several hundred requirements. Some of  
24 them are event-based, so there's many opportunities for an  
25 operating security limit violation on a particular line at

1 any particular time, and so there are many opportunities for  
2 violations.

3 Next slide, please.

4 (Slide.)

5 MR. HILT: This slides shows the improvement in  
6 compliance with some of the key measures in the planning  
7 area for 2003, as compared to 2004.

8 In last year's program, we highlighted some  
9 measures that we thought had a fairly high number of  
10 violations, and, again, we're going to highlight those in  
11 our final report. You will see this table, but certainly it  
12 shows that there has been an overall reduction in some of  
13 these measures in terms of improvement. These are primarily  
14 related to system protection testing and under-frequency  
15 load-shedding programs being fully compliant with the  
16 requirements.

17 Next slide, please.

18 (Slide.)

19 MR. HILT: Compliance with some of the key  
20 operating measures also improved in 2004, and these are  
21 related to control performance, security limits, and  
22 operator training and certification.

23 And we did see significant improvements in those  
24 areas, as well. Next slide, please.

25 (Slide.)

1                   MR. HILT: In addition to those that are in the  
2 program on an annual basis, we have been monitoring  
3 compliance with the cybersecurity standard that we developed  
4 with some assistance with those here at FERC a couple of  
5 years ago.

6                   This is the second year that we've monitored the  
7 compliance with this particular standard. We've seen  
8 significant improvements in the results with that. At the  
9 beginning of 2004, in January, we had 67 percent overall  
10 compliance with all 16 of the requirements.

11                   At the beginning of 2005, that has improved to  
12 almost 90-percent compliance with all 16 requirements, with  
13 many of the requirements having 100-percent compliance now.  
14 Next slide, please.

15                   (Slide.)

16                   MR. HILT: In addition, we've been monitoring  
17 compliance with the vegetation outage requirements. The  
18 standard itself that we have, has two requirements that are  
19 related to some work that the FERC here has done.

20                   The first part of it has to do with making sure  
21 that everyone has a vegetation management plan and an annual  
22 work plan for maintaining the vegetation out of the right of  
23 ways.

24                   We found no violations of that, and I think that  
25 confirms the work that you had done in collecting many of

1 those from the entities that are responsible to FERC.

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1                   We went one step further with ours and had  
2 reporting of all vegetation-related outages in a couple of  
3 categories around EHV transmission lines as part of our  
4 blackout recommendations. In 2004, there were 38 such  
5 outages reported to NERC. This slide shows the total number  
6 within the right-of-way and adjacent to the right-of-way and  
7 how many outages per hundred miles of transmission were  
8 actually reported to us in 2004.

9                   This being the first year that we've collected  
10 this data, it will be very interesting and we certainly hope  
11 to look at trends in this data -- and hopefully it will be  
12 downward. However, we did look at each one of the outages,  
13 we have some detail on all of these 38 outages and we  
14 believe in every case that the tree or the situation has  
15 been resolved.

16                   And with that, Mr. Chairman, I'd be happy to  
17 answer any of your questions that you may have.

18                   CHAIRMAN WOOD: David, thanks a lot. I  
19 appreciated your presentation yesterday to the NERC board as  
20 well on similar matters.

21                   I wanted to follow-up on the cybersecurity first.  
22 You mentioned yesterday and I wanted you to just share with  
23 my colleagues and our staff here today what's going on with  
24 the development of I think a higher standard and what's the  
25 kind of timetable on that.

1                   MR. HITT: Yes, the Standard 1200, the  
2                   cybersecurity standard we have now was developed under the  
3                   urgent action provisions of our standards development  
4                   process. That standard is set to expire in August, mid-  
5                   August. We've been actively working for the last two years  
6                   to put together a much tougher standard, a more detailed  
7                   standard that applies in a broader range of entities in the  
8                   electric business and they're very much on track to have  
9                   that accomplished. Unfortunately, I think we're going to  
10                  have a little issue with -- this standard may expire in  
11                  August and the schedule right now is some time in November  
12                  we expect to have the new standard in place.

13                  We're looking at options as to how to extend this  
14                  standard to make sure that we do have a standard in place  
15                  during that interim period and will report back to our board  
16                  at their August meeting on those options as to which one we  
17                  will be taking. But we certainly expect to continue with  
18                  cybersecurity standards in the future.

19                  CHAIRMAN WOOD: And then actually the development  
20                  of the next generation standard. I mean, are there specific  
21                  matters or specific items that you see that addressing that  
22                  will be an improvement over the current 1200 standard?

23                  MR. HITT: Well certainly the number of people  
24                  that are -- the number of entities that are covered by that  
25                  standard. Today we monitor reliability coordinators and

1 control areas and with the new standard we will certainly  
2 drill that down to others that are involved in the electric  
3 utility business. As you know, with cyber you don't  
4 necessarily have to go in through the largest door into the  
5 system to get in, so we're anxious to get that standard in  
6 place.

7 CHAIRMAN WOOD: I've noticed and announced our  
8 staff to pull off the reports from the four quarters of last  
9 year on the compliance and I just want to say as one who's  
10 watched this program as you've lived it, David, grow over  
11 the last year, particularly with the searing spotlight of  
12 your board on it. To go to naming names, I think was a  
13 critical thing. I remember specifically praising the  
14 actions of the Board last summer when they agreed to do that  
15 with the appropriate amount of due process for the people  
16 that were kind of swept up in the compliance findings, and I  
17 just want to recommend for the public to look at the  
18 NERC.com webpage under the compliance tab, I believe it is.

19 MR. HITT: Yes.

20 CHAIRMAN WOOD: And these reports are on there, I  
21 don't think it's my job to name these names in the  
22 microphone here, but they're there and I think -- I can't  
23 imagine a more effective enforcement regime than for a CEO  
24 to see his company's name on the cover of the NERC public  
25 disclosure compliance list. I would hope that the scarlet

1 letter factor continues to work as well as it has.

2           Again, I look forward to the day when there is  
3 reliability legislation to solicit by this but I do think  
4 this has filled the breach in the most effective way and I  
5 just want to continue to urge both your professional labors  
6 to it, David, but also that of all the people who are  
7 involved in the compliance program. It is a central  
8 function that you-all do that we certainly, on the  
9 government side of the fence, can't duplicate. We want to  
10 support it and we want to help you, do what we can on our  
11 side but it really takes the professionals that are looking  
12 at the detailed implementation of all these standards to  
13 really ensure that we have a safe and secure grid. So thank  
14 you very much, on a personal and professional basis, for  
15 what you-all are doing with regard to the compliance and to  
16 the naming names. It is absolutely critical to making sure  
17 that the events of August of '03 never happen again. So I'm  
18 thrilled to see it actually in hard copy. Thank you.

19           COMMISSIONER BROWNELL: I have a question.  
20 David, I agree that I think that it's appropriate for an  
21 independent oversight agency as you wish to be to actually  
22 hold people accountable by naming names. Are you working  
23 with NARUC and the individual state commissions to make sure  
24 that they have a full understanding of what these violations  
25 mean so that they can increase their vigilance?

1           MR. HITT: Yes, we are. Every quarter, when we  
2 publish this report, we send specifically to a list of state  
3 regulators the report on the violations and we've held -- at  
4 the last quarter in particular we held a webcast for the  
5 NARUC staff folks to help them understand what the  
6 violations mean. Every way we can, we certainly want to  
7 work with them as well.

8           COMMISSIONER BROWNELL: David, you mentioned in  
9 one of the reports, I think it's the fourth quarter report,  
10 that you are getting fuller explanations from the regions  
11 about the meaning of the violation. What exactly -- that  
12 may or may not be perceived as having an impact on the  
13 system. So I'm assuming that the companies -- or what does  
14 that mean actually?

15           MR. HITT: Well originally when we started this,  
16 the bar was was it significant to reliability or was it not  
17 significant, and many of the responses came back well it was  
18 -- at the time that this occurred, it was not a threat to  
19 reliability. And we asked for more explanation to provide  
20 the public with some better understanding of what -- to put  
21 the violation of the standard in particular context, and the  
22 regions have dutifully provided that for us.

23           COMMISSIONER BROWNELL: And then do you validate  
24 that, is there an independent validation of that in any way?

25           MR. HITT: At this time, our board, the NERC

1 compliance staff reviews those and either concurs or does  
2 not concur with them. As we move forward, we're working on  
3 a process that was discussed at our stakeholders meeting  
4 yesterday to try to put some more context around the  
5 violations and I think there were some concerns at that  
6 meeting -- trying to put essentially some numerical process  
7 to it, to put a score to a violation, if you will. There  
8 were some concerns there that a low score might mean that  
9 the violation really wasn't significant and there were some  
10 concerns at that meeting that all violations are of some  
11 significance. So we'll continue to work on that but we're  
12 looking at ways to make it a little less arbitrary and put a  
13 little more structure into determining the significance of  
14 the violations.

15 COMMISSIONER BROWNELL: Good. I think that's  
16 important. I think it is tough and it's probably tough to  
17 assign some numerical thing, but we don't want a situation  
18 where reliability is in the eye of the beholder; I think  
19 that puts us at some degree of risk.

20 One more quick question: when you list these  
21 violations, am I to assume then on the rotating look-see  
22 these are the people who appear -- who get looked at more  
23 frequently rather than less frequently? I mean, are there  
24 certain kind of categories, for example, operator  
25 certification, I would think that would be -- you have three

1 weeks to follow-up and outline your training program. I  
2 mean, do you go -- are those the people that rotate more  
3 quickly get a better look?

4 MR. HITT: Yes. The intent of the program is we  
5 will follow those very, very closely. In many cases, the  
6 operator certification is a matter of having an operator  
7 that can -- we have a test that an operator must take and  
8 pass --

9 COMMISSIONER BROWNELL: I just used that as an  
10 example.

11 MR. HITT: That may take some time if the  
12 individual cannot pass the test, then they may have to find  
13 another individual that can.

14 COMMISSIONER BROWNELL: But they can work until -  
15 - like --

16 MR. HITT: They can. It's a violation of the  
17 standard to have someone on a desk that's not a NERC-  
18 certified operator.

19 COMMISSIONER BROWNELL: How many times can they  
20 take the test?

21 MR. HITT: I'd have to look, but they can take it  
22 several times.

23 COMMISSIONER BROWNELL: So meanwhile are they  
24 supervised with someone who has passed the test?

25 MR. HITT: There should be someone in the control

1 rooms at all times that has passed the test, yes.

2 COMMISSIONER BROWNELL: I hope so.

3 COMMISSIONER KELLY: I wanted to follow-up on  
4 Nora's lines of questions, David. In your third quarter  
5 report of 2004, you noted that the board of trustees had  
6 asked the compliance and certification committee to develop  
7 metrics and definitions that could be used to assess  
8 significance on a consistent basis. You just talked to Nora  
9 about the recent stakeholder process. Was there a consensus  
10 that came out of that process that that shouldn't be done?

11 MR. HITT: No, not at all. The consensus out of  
12 the process was it needs to be done but it needs to be done  
13 very carefully.

14 COMMISSIONER KELLY: Right.

15 MR. HITT: And we'll continue to work on that.  
16 It is going to take some time, because any time that you  
17 draw a line in the sand and you say this is this level of  
18 significance or not, we have to be very careful that we're  
19 doing it appropriately.

20 COMMISSIONER KELLY: I understand that. But I do  
21 want to stress that I think that that is very important  
22 because indeed violations are -- some are more significant  
23 than others, and particularly when the reliability of the  
24 grid is at stake here it's important to know which ones are  
25 exceedingly significant because they should be getting a

1 great deal of attention, not only from NERC but also from  
2 us. So I appreciate your efforts in that regard and I hope  
3 that the committee can move quickly to develop standards.  
4 Thanks.

5 COMMISSIONER KELLIHER: I wanted to ask you a  
6 question about whether you will try to identify levels of  
7 severity or seriousness of violations. In the nuclear  
8 energy context, I think the NRC has two or three different  
9 levels of reporting violations. They do some triage. And  
10 your reports are -- they give you a gross number and they  
11 identify the areas where there are violations but not really  
12 a sense of which violations are serious, which ones are less  
13 serious. Will you be doing that?

14 MR. HITT: That's the intent of this entire  
15 program is to put them into context in terms of looking at  
16 what other -- you know, in combination with another  
17 violation, would this have been significant, in combination  
18 with the current system conditions, you know, had it  
19 occurred on an April morning when loads were incredibly  
20 light it may not be of as large a significance as it may be  
21 at peak load periods. The answer is we do have some  
22 significant levels in there today, in terms of level I, II,  
23 III, and IV with how egregious the particular violation is  
24 that we want to go one step further with categorizing them  
25 and looking at them in context with other potential

1 violations.

2 COMMISSIONER KELLIHER: But just to be clear,  
3 will you then have more than one category of violations  
4 then?

5 MR. HITT: Yes, certainly.

6 COMMISSIONER KELLIHER: Right. And since you  
7 rely on the regional reliability councils to report to you,  
8 do you in turn assess their enforcement informally or  
9 formally assess their enforcement ability?

10 MR. HITT: We do that on a formal basis. The  
11 NERC compliance and certification committee is charged with  
12 auditing each of the regional compliance programs. Annually  
13 they submit to us a program plan for how they're going to  
14 carry out their program. We review that and will approve  
15 their plans if appropriate. This year we had some issues  
16 with them in terms of disclosure and asked for revisions in  
17 their plans. We do not audit everyone every year but we do  
18 that also on a three-year cyclic basis where we will go  
19 perform an audit of the regional program to see that they're  
20 carrying it out in accordance with the program plan that  
21 they submitted to us.

22

23

24

25

1                   COMMISSIONER KELLIHER: And when you suggest  
2 improvements, what occurs? Do they make the improvements?

3                   MR. HILT: Today, as we've gone back, we're on  
4 our second round of audits on those regions, and, generally,  
5 yes, we've seen that they have taken our recommendations to  
6 heart, and implemented them where it's been appropriate to  
7 do so.

8                   COMMISSIONER KELLIHER: Okay, thank you.

9                   COMMISSIONER BROWNELL: Are you publishing the  
10 results of those audits, as well?

11                  MR. HILT: We have not. We haven't broached that  
12 thought, but that's a possibility. Those have been certainly  
13 internal to NERC. We've not made those public, but that's  
14 another issue that we may want to consider.

15                  COMMISSIONER BROWNELL: You probably ought to  
16 take a look at that. Maybe your Board wants to do that.

17                  I think the Blackout Report raised some pretty  
18 serious questions about the independence of those regional  
19 groups, and I think it would probably do everyone a service,  
20 to kind of give information.

21                  As long as we're holding companies accountable,  
22 we ought to hold the rest of the world accountable, as well.

23                  MR. COOK: If I could follow up, Commissioner  
24 Brownell, in response to those discussions in the Blackout  
25 Investigation Report, the regions have taken on a study of

1 the role of the regions in identifying the functions that  
2 they're performing, and then set some criteria down about  
3 the things that they ought to be doing.

4 They've done sort of a gap analysis of where  
5 particular programs need to be brought forward and enhanced,  
6 and that process is underway. We had a final report from  
7 the group that did that study, at the Board meeting --  
8 rather, at the members meeting on Monday.

9 And that report is or will be public, and so  
10 there's sort of another measure of the focus that's going on  
11 in the regional programs.

12 COMMISSIONER BROWNELL: And so that report will  
13 be public in the next month or two, and then the regions  
14 will make the appropriate changes? It's been awhile since  
15 that Blackout Report was issued.

16 MR. COOK: It has been, and it's my understanding  
17 that the regions have programs underway to close the gaps,  
18 where they have been identified, but that information is  
19 generally public. It was available at the meetings and so  
20 on, so I just physically don't know whether it's been posted  
21 or not, but it's certainly public information that's  
22 available.

23 COMMISSIONER BROWNELL: And has the team, the  
24 DOE, FERC, other people team that drafted the Blackout  
25 Report and made those recommendations, have they looked at

1 that; have they been asked for their opinion in terms of  
2 whether that meets --

3 MR. COOK: They have not. We've not asked them  
4 formally for that, and they have not made any findings in  
5 that regard.

6 They have a report underway themselves, I  
7 understand, that should be out in -- I don't mean to put  
8 deadlines on them. I think it's like the next month.

9 COMMISSIONER BROWNELL: So we assume they're  
10 looking at it, or not?

11 MR. COOK: I assume they are, but I don't know  
12 the answer to that question. They were -- some of  
13 representatives of them were at the meeting where it was  
14 discussed.

15 COMMISSIONER BROWNELL: It strikes me as a way to  
16 validate the work that the regions have done, particularly  
17 since they have come back together and are working, I think,  
18 under the Office of Transmission at DOE. Perhaps you want  
19 to ask them to undertake that task.

20 MR. COOK: I'll certainly make sure the regions  
21 get that information to them for that.

22 COMMISSIONER KELLY: David, again in your third  
23 quarter 2004 report, you noted that the Western Electricity  
24 Coordinating Council did not state whether the violations  
25 that occurred in the WECC region, were significant or not.

1 They just didn't comment.

2 I have a couple of questions regarding that: Has  
3 WECC since commented on whether or not they were  
4 significant?

5 MR. HILT: WECC has begun to provide us with that  
6 -- with some discussion of the significance of those  
7 violations. There was some need to establish some processes  
8 within regions, in response to the disclosure guidelines.  
9 It just took a little longer in WECC to get them in place.

10 We fully believe, you know, our review and  
11 discussion with WECC at our Board meeting yesterday, was  
12 very, very positive and they are providing all of the  
13 information that we're asking for now, in a very, very  
14 timely fashion.

15 COMMISSIONER KELLY: Great. And of the  
16 violations that they have talked to you about, do any of  
17 them rise to the level of concern, significant concern?

18 MR. HILT: Certainly all violations are of  
19 concern.

20 COMMISSIONER KELLY: Right.

21 MR. HILT: But none of the violations that have  
22 been identified to date, rises to the level of what I would  
23 label as a significant concern.

24 COMMISSIONER KELLY: And WECC has confirmed that  
25 with you, that even though it's not in the report, it's been

1 reported to you?

2 MR. HILT: It has been reported to us, and there  
3 is some in the third quarter, but if you look at the fourth  
4 quarter report, they did provide some context for the  
5 particular violations.

6 COMMISSIONER KELLY: Thank you.

7 COMMISSIONER KELLIHER: I just wanted to come  
8 back to urge you to really move ahead on trying to come up  
9 with categories of violations.

10 It kind of brings to mind, a comment that Marion  
11 Barry had made a number of years ago when he was Mayor, and  
12 he said, except for the murders, the D.C. crime rate had  
13 fallen.

14 (Laughter.)

15 COMMISSIONER KELLIHER: And it's useful to see  
16 that the total violations have fallen from 360 to 318, but  
17 it could be that the subset of serious violations might have  
18 increased, and I think it would help build confidence in the  
19 reporting, if you were to try to categorize the violations.

20 I had another -- just one question on the  
21 vegetation outage reporting slide. When you say that no  
22 violations of requirements were reported, what requirements  
23 are you referring to? There's not a vegetation management  
24 standard, right?

25 MR. COOK: There were some vegetation management

1 requirements developed as a result of the blackout, that  
2 were translated into the standards, the Version 0 standards  
3 now. And it included just the basic requirements that you  
4 have a vegetation -- that the company have a vegetation  
5 management plan, and an annual work plan, and there were  
6 some requirements within what needed to be in the annual  
7 vegetation or the vegetation management plan.

8 And we had identified no -- everyone was fully  
9 compliant with those requirements.

10 COMMISSIONER KELLIHER: Thank you.

11 CHAIRMAN WOOD: Gentlemen, thank you for coming  
12 up. We appreciate it.

13 MR. COOK: Thank you.

14 SECRETARY SALAS: The next item for discussion is  
15 A-4. This is State of the Markets Reports.

16 This is a presentation by David Patton and Steven  
17 Balser, representing the NYISO, Bob Ethier from the ISO New  
18 England, Anjalie Sheffrin and Greg Cook, representing CAISO.  
19 And we will start with California ISO.

20 (Slides.)

21 MS. SHEFFRIN: Good morning. I'm Anjalie  
22 Sheffrin, and this is Greg Cook. We're from the California  
23 ISO. Thank you for inviting us here this morning.

24 We're here to review with you, the state of the  
25 California markets in 2004. I will review the overall

1 market performance, and I'll cover two areas: How the  
2 markets have performed, and, second, what issues we analyzed  
3 in 2004, in order to help improve the operation of the  
4 market.

5 When we look at market performance, there are  
6 three areas that we focus on: First, were the costs to  
7 serve the load stable, the wholesale energy costs, were they  
8 stable?

9 Second, were the markets competitive; third, what  
10 was the level of reserves? Did supply keep pace with  
11 demand growth?

12 After a few summary slides on this indicators,  
13 what I'll do is cover four market issues that we analyzed:  
14 First, what was the impact of the new Phase I-B Market  
15 Design that went into effect in October of 2004?

16 Secondly, what were the sources of rising real-  
17 time congestion costs that we saw in 2004?

18 Third, why did we see a number of hours of  
19 ancillary service bid insufficiency in the markets, and;

20 Fourth, what is the outlook for the Summer of  
21 2005. So, I hope to cover these issues in my presentation.

22 Let me begin with just a quick refresher on the  
23 Cal ISO in the markets that it runs: The Cal ISO covers  
24 about 75 percent of the load in California. The other 25  
25 percent is covered by municipal control areas.

1                   In 2004, the Cal ISO control area saw a peak load  
2                   of 45,597 megawatts. Our load growth in 2004, was about 3.7  
3                   percent, and much of that occurred in Southern California,  
4                   and you'll see this to be a theme of my presentation.

5                   We had a high level of imports into California to  
6                   help meet our peak loads. Actually, our imports from the  
7                   Northwest declined by three percent last year, because it  
8                   was a dry hydro year for the Northwest, but our imports from  
9                   the Southwest increased 20 percent, because there has been a  
10                  tremendous amount of new combined-cycle facilities that have  
11                  been built in the Southwest region, and there's tremendous  
12                  competition to get that supply into California to meet the  
13                  Southern California load.

14                  CHAIRMAN WOOD: What's the capacity of the  
15                  transmission grid to get it there, Anjalie?

16                  MS. SHEFFRIN: You'll see in my congestion slide  
17                  that we do have some congestion, trying to get all that  
18                  capacity in. And our Board of Directors just recently  
19                  approved an increase on the Palo Verdes-Devers line and  
20                  expansion. That's a major \$690 million expansion, but that  
21                  will be a few years down the road.

22                  COMMISSIONER BROWNELL: A few is two or three or  
23                  four, or?

24                  MS. SHEFFRIN: I think it's supposed to come  
25                  online in 2009.

1 CHAIRMAN WOOD: That's four.

2 COMMISSIONER BROWNELL: Okay, four.

3 COMMISSIONER KELLY: And does the Los Angeles  
4 Department of Water and Power, also have plans to increase  
5 the capacity into Los Angeles?

6 MS. SHEFFRIN: Well, we have competition between  
7 Southern California Edison and Los Angeles Department of  
8 Power, both wanting to build that line. We're hoping that  
9 they can work out an agreement, but it --

10 COMMISSIONER KELLY: But it would be one line  
11 that they're competing for, rather than two?

12 MS. SHEFFRIN: Right, yes.

13 COMMISSIONER KELLY: And who has jurisdiction  
14 over that decision?

15 MS. SHEFFRIN: Well, it depends. Because it's a  
16 contract between Southern California Edison and LADWP, if  
17 Edison feels that, you know, they have the contract rights,  
18 then it will go before the California Public Utilities  
19 Commission, but if LA feels that, no, they have the  
20 contractual right, then they can be their own lead agency in  
21 getting that built.

22 CHAIRMAN WOOD: Is there going to be another  
23 standoff then and it not get built at all?

24 MS. SHEFFRIN: No. We're hoping, since both  
25 parties want it built, that someone will build it. Right

1 now, Edison is claiming that they have the contractual  
2 authority, but we're hoping that the lawyers will work that  
3 out.

4 COMMISSIONER BROWNELL: We've got a lot of hope  
5 in California for a lot of things. Give us -- I mean, who  
6 is going to make the cut? Let's --

7 MS. SHEFFRIN: Southern California Edison has  
8 already filed their application at the California Public  
9 Utilities Commission to build that line, so it is an  
10 affirmative action by that Company.

11 COMMISSIONER KELLY: And has LADWP intervened in  
12 protest?

13 MS. SHEFFRIN: I think that they issued a news  
14 release saying that their reading of the contract says  
15 something different, and Edison's response is that they're  
16 working with LA on that interpretation of the contract.

17 COMMISSIONER KELLY: And assuming that the line  
18 is sited and approved, what's your estimation of the  
19 construction time?

20 MS. SHEFFRIN: Actually, hopefully, if the  
21 approval process goes quickly, the construction won't take  
22 as much, because a lot of it is using existing right of way  
23 that's already been bought. You know, a lot of the  
24 regulatory approval is in the environmental impact arena, so  
25 we're hoping that it does get streamlined, but, as I said,

1 the expectation is that it's on in early 2009.

2 COMMISSIONER KELLY: And does that line go into  
3 Arizona, or is it entirely within California?

4 MS. SHEFFRIN: No, there is a part in Arizona.

5 COMMISSIONER KELLY: And are you working with  
6 Arizona's local siting authorities, or the Arizona PUC,  
7 whoever would have jurisdiction, since there's not a  
8 regional entity that Arizona is a member of?

9 MS. SHEFFRIN: Southern California Edison is the  
10 lead agency proposing this line, so they would be working  
11 with those agencies, but in the regional transmission  
12 planning forums that the Cal ISO has participated in,  
13 certainly a lot of the Arizona authorities have been  
14 involved in that.

15 But, again, it's Southern California Edison's  
16 responsibility to make sure that all gets done on the  
17 Arizona side.

18 COMMISSIONER KELLY: Thank you.

19 (Slide.)

20 MS. SHEFFRIN: Okay, let me turn to the key  
21 parameters of market performance: The first one is overall  
22 wholesale energy costs. Again, they've been stable for the  
23 third year in a row, since the California energy crisis.

24 In 2004, wholesale energy costs were \$12.8  
25 billion, up one billion from 2003. A lot of that can be

1 attributed to the rise in natural gas prices.

2 What's interesting to compare is, if you take a  
3 look at the total 2004 costs, and normalize them for natural  
4 gas prices for a year before the crisis, which is 1999, we  
5 actually see that the costs will be lower by about 30  
6 percent than '99.

7 We looked into why is that, and what it reflects  
8 is the tremendous amount of generation efficiency that's  
9 occurred in the markets. In 1999, the average heat rate to  
10 serve load, was about 12,000 heat rate, whereas in 2004,  
11 that had fallen to about 9,000 to 10,000, so much more  
12 efficient generation having been built and meeting load.

13 One other thing to note on this slide is the blue  
14 area that is the forward energy that's contracted prior to  
15 the Cal ISO real-time market, so the majority of the energy  
16 needs is being bought in the forward markets, and only about  
17 two to three percent of the load is being met in our real-  
18 time markets.

19 (Slide.)

20 MS. SHEFFRIN: On the next slide, what we see  
21 here is, in terms of overall competitiveness, as measured by  
22 the price/cost markup, we've had the third year in a row of  
23 competitive market performance.

24 We saw prices in our market with only about a  
25 five-percent, on average, markup, over what we consider to

1 be competitive benchmark costs, so this is, again, very  
2 competitive outcomes for our market.

3 (Slide.)

4 MS. SHEFFRIN: The next slide is turning to real-  
5 time prices. On average, they've been in the \$40 to \$50 per  
6 megawatt hour range, so, again, they have been fairly  
7 stable, compared to last year's.

8 In the fourth quarter, we did see real-time  
9 prices rise, and, again, this reflects a combination of  
10 factors. We had the new software go in, so some people  
11 thought, well, did this cause the price increase?

12 The second is, we had two large nuclear units,  
13 Diablo Canyon and San Onofre, out for refueling, and we had  
14 major maintenance being done on the major DC line from the  
15 Northwest into California.

16 And, finally, I think, as a lot of people  
17 remember, there was a big jump in natural gas prices, right  
18 between the end of September and early October. I think  
19 that, you know, all those factors really contributed to that  
20 increase in prices in real-time in the fourth quarter.

21  
22  
23  
24  
25

1                   Not any one of those factors was the real reason.  
2                   Again, I do want to remind you these are average prices over  
3                   the month. We see individual hour price spikes, obviously.  
4                   In our markets, they tend to occur during the hours of 6:00  
5                   a.m. and 10:00 p.m., and that's when these 6x16 block  
6                   contracts come in to meet California load. So they tend to  
7                   come in at 6:00 a.m. and there's a tremendous amount of  
8                   ramping requirements and we tend to see the price spikes  
9                   then and then they terminate at 10:00 p.m. and again there's  
10                  a tremendous amount of ramping requirements in that hour and  
11                  we tend to see the price spikes. So again these are  
12                  averages but we do have individual hour price spikes when  
13                  different certain system conditions warrant our needing more  
14                  power on the system.

15                                 (Slide.)

16                   MS. SHEFFRIN: Let me now turn to demand supply  
17                   fundamentals. In California, we have seen a high level of  
18                   load growth. This has particularly been the case in  
19                   southern California and that load growth is occurring mainly  
20                   in the inland areas: Riverside County, San Bernardino  
21                   County, where it is hotter so it tends to contribute to our  
22                   peak load growth with air conditioning demand.

23                                 At the same time, we did see a slowdown in our  
24                   generation additions, and I'll show you a more detailed  
25                   slide in a few minutes, but essentially our generation

1 additions were only 568 megawatts in 2004. We do expect  
2 that to pick up for this year; by summer of this year we  
3 expect another 1780 megawatts to come on.

4 But again essentially what happened was load grew  
5 much faster than what generation supply came online. How  
6 did we meet, therefore, our load growth? Well, it was due  
7 to the increased imports from the Southwest.

8 COMMISSIONER BROWNELL: I just have a couple  
9 questions about that. You talk a little bit about the  
10 SoCal/Ed territory. You didn't include, I think, something  
11 that the Cal ISO presented to the California legislature  
12 which shows reserves in the SoCal/Ed territory only slightly  
13 -- under the one and two scenario, only slightly above what  
14 the desired 7 percent reserve, dipping pretty significantly  
15 in 2006, hugely underwater, in the worst case 1 in 10 really  
16 hot summer scenario in 2005. We're talking about generation  
17 that hasn't really kept up with load. I think the peak load  
18 there has grown -- 3.7 is an average. What's peak there,  
19 5.3, 5.4, something like that?

20 MS. SHEFFRIN: It was 7 percent last year but  
21 then very little growth from the year before, so it's been  
22 growing, if you average over two years, about 3.7 percent  
23 and that's what we're projecting. But all the points you're  
24 making are later in my slides.

25 COMMISSIONER BROWNELL: Okay. Okay. Because I

1 think we want to get to that realistic picture and what  
2 we're going to do about that. Great. Thanks.

3 (Slide.)

4 MS. SHEFFRIN: Turning to the congestion that  
5 occurred in our markets that we were able to resolve in the  
6 day-ahead, the largest increase again was on the Palo  
7 Verde/Devers line, that generation from the Southwest trying  
8 to get into California so congestion on those lines  
9 increased. In 2003, they were \$3.4 million and then in 2004  
10 they were 27 -- \$21.7 million. So this again reflects the  
11 large number of imports wanting to get in from the Southwest  
12 and they are much more efficient power plants wanting to  
13 meet the load in Southern California.

14 (Slide.)

15 MS. SHEFFRIN: The next page is the resource  
16 addition picture and then after that I'll have the reserve  
17 picture that you talked about, Commissioner Brownell.

18 We saw a high rate of generation addition the  
19 last three years, but that slowed tremendously in 2004. So  
20 as you can see, where we had 1900, 1700, 2600 megawatts a  
21 year of generation additions, we only had 568 in 2004. For  
22 this summer, we expect another 1781 megawatts.

23 In terms of what Commissioner Brownell was  
24 talking about, where that new generation located also caused  
25 a problem. Most of that new generation came in in Northern

1 California but the load growth was in Southern California.  
2 The other thing that aggravated it is we had much more plant  
3 retirements and mothballing. And, again, that happened in  
4 Southern California. So I think those two events really  
5 exacerbated the supply shortages.

6 COMMISSIONER BROWNELL: Is this pricing signals?  
7 Is it overmitigation? Is it -- you know, people aren't  
8 exactly rushing to build in spite of growth, so what's your  
9 take on that?

10 MS. SHEFFRIN: You know, I don't think it's  
11 overmitigation because we haven't mitigated prices very  
12 much. In fact, our amp procedure didn't kick in on a system  
13 level at all since we've had it in place. What I do think  
14 is this boom/bust cycle that you see where it really was  
15 unexpected amount of load growth in Southern California and  
16 so it takes a lag for the generation to keep up. The two  
17 things that we have -- you know, that we can hope will help  
18 the situation is the resource adequacy requirement that the  
19 CPUC will have in place by June of 2006 where all load-  
20 serving entities have to meet their peak load plus 15  
21 percent and then also the long-term procurement proceedings  
22 which tells the utilities go out and buy 10 years in advance  
23 for your requirements -- as much as 10 years in advance. So  
24 we're hoping those two things, you know, really spur the  
25 investment that we need in the right areas.

1                   COMMISSIONER BROWNELL: There's a lot of people  
2 who think that the 10 years really doesn't get you where you  
3 need to go, that that is not a sufficient signal. And in  
4 spite of those pending kinds of issues, like resource  
5 adequacy, we're not -- perhaps you are seeing people line up  
6 to build, we're not hearing about that so it will be  
7 interesting to see.

8                   Do you think part of it is waiting for market  
9 design and some clarity on those kinds of issues and getting  
10 some of these major issues settled once and for all?

11                  MS. SHEFFRIN: No doubt there is some of that,  
12 but I think the majority of it is people need a contract to  
13 go to the bank to finance their power plants. And we're  
14 hoping that resource adequacy and long-term procurement  
15 helps. You're right, it probably won't help, you know, the  
16 full amount. But as we've done in our net revenue analysis  
17 for new plants, they can hope to earn part of it without a  
18 contract from our markets but they really do need the other  
19 part financed partially through long-term contracts. So  
20 we're hoping it's a combination of the two revenue streams  
21 that gets these plants financed and in the right location,  
22 which is Southern California load centers.

23                  CHAIRMAN WOOD: Is there not an obligation on  
24 there right -- I'm looking at the dissonance between the  
25 amount of retirement you've got in the southern part, almost

1 three gigawatts over this last three years, and then the  
2 fact that on the next chart -- which I don't know if it's up  
3 yet -- but you've got a need for a load in excess of  
4 generation already. If that's not a price signal, why are  
5 those plants retiring?

6 MS. SHEFFRIN: The reason that they're retiring  
7 is they're old, they're more than 40 years old, they're not  
8 efficient, they're --

9 CHAIRMAN WOOD: I know but they're all you've  
10 got. Is it cheaper to import and pay congestion?

11 MS. SHEFFRIN: I think that is the case. What we  
12 are seeing though is with some of these procurement plans by  
13 the utilities, some of those owners -- especially they have  
14 wonderful sites right near the load center with all the  
15 interconnection facilities. What they're looking to do is,  
16 you know, sort of raise the existing plant and build the new  
17 efficient combined cycle. So we're hoping through these  
18 long-term contracts that that can help stimulate some of  
19 that development. I've heard, you know, some plans for it  
20 but again I agree with you, we'd like to see a lot more.

21 CHAIRMAN WOOD: Okay.

22 (Slide.)

23 MS. SHEFFRIN: Okay. The next is to get to the  
24 difference in reserve margins that you noted, Commissioner  
25 Brownell, in our next slide. Even though in 2004 we have

1 15.3 percent reserve margin overall, it was much tighter in  
2 Southern California than it was in Northern California.  
3 When you look at those reserve margins by region, we only  
4 had a 5 percent reserve margin in Southern California and a  
5 21 percent reserve margin in Northern California. So again,  
6 this was a direct result of where the load grew and where  
7 the plant retirements and new generation additions took  
8 place.

9 COMMISSIONER BROWNELL: But you agree those  
10 Southern California numbers dropped precipitously under any  
11 scenario in 2006-2007?

12 MS. SHEFFRIN: Right. I mean, last year, 2004,  
13 was an average weather year, it certainly was not extreme.  
14 We only had 5 percent reserve margin. That was the cause  
15 for concern and that still is, looking into 2005 summer.

16 (Slide.)

17 MS. SHEFFRIN: Okay. Let me now turn to the key  
18 market issues that we analyzed in 2004. Four major things  
19 happened in the market from the perspective of our  
20 department. First, what was the impact for the real-time  
21 market software. Let me go to that.

22  
23  
24  
25

1                   We reviewed the impact of this new software  
2 installed in 2004. The purpose of it was to automate the  
3 dispatch instructions that occurred in real time.

4                   As you recall, previously, a lot of the  
5 instructions -- I'm sorry, I'm on Slide 17.

6                   (Slide.)

7                   CHAIRMAN WOOD: We wanted to talk about 13 and  
8 14, but --

9                   MS. SHEFFRIN: I'm sorry, go ahead.

10                   (Slide.)

11                   MS. SHEFFRIN: You want to talk about 14?

12                   CHAIRMAN WOOD: It's not on there, okay.

13                   MS. SHEFFRIN: It's not on there.

14                   CHAIRMAN WOOD: Did you move it to the back?

15                   MS. SHEFFRIN: Sure, we can talk about that.

16                   That's the important aspect of the market fundamentals,  
17 which is to track the new generation, whether it can earn  
18 sufficient revenues. That's on Slide 14.

19                   A lot of these were common indicators, and so we  
20 were told that the Commission already had a copy.

21                   CHAIRMAN WOOD: Oh, no, I mean, I'm concerned  
22 about that in light of how the series of questions I've been  
23 having -- you know, the price signals that should be sent  
24 when you do have a supply and demand coming as close as they  
25 are in the market there, but there's not a net revenue

1 sufficiency.

2 Is --

3 MS. SHEFFRIN: Again, the net revenue sufficiency  
4 is over all hours. A lot of hours, it is more efficient to  
5 have the other plants be running; it's more economic.  
6 That's where the load-serving entities tend to buy from.

7 CHAIRMAN WOOD: Does that make us think that  
8 maybe there needs to be maybe a more focused approach on the  
9 peakers, the ones that aren't going to run 5,000 hours, but  
10 are going to run about a hundred?

11 MS. SHEFFRIN: Right.

12 CHAIRMAN WOOD: I mean, what would that look  
13 like?

14 MS. SHEFFRIN: Do you want to --

15 CHAIRMAN WOOD: I mean, what kind of policies do  
16 you have or do we need to be thinking about, as the market  
17 design reforms hopefully come around the final lap here?

18 MR. GREG COOK: I'll try and answer that. I  
19 think what we've been looking at, particularly when we look  
20 at the net revenue, is that it's kind of difficult in  
21 California, since we only run an imbalance energy market.

22 I think that, clearly, no one would build a plant  
23 just to sell into an imbalance energy market, so we look at  
24 what's the revenue contribution that they could have  
25 received through our markets, which is the imbalance energy

1 and the ancillary services.

2 We did see that for a peaking unit, they would  
3 have earned fairly significant revenues in our ancillary  
4 service markets, definitely not enough to cover what our  
5 estimated fixed cost needs are that they would have. So  
6 obviously something needs to be supplemental to that, and  
7 what we're looking into now are really looking to the  
8 resource adequacy requirements that the CPUC is putting  
9 together to provide that revenue, where the utilities would  
10 contract with those peaking units to make sure that they  
11 remain online, and to recover the fixed costs.

12 CHAIRMAN WOOD: But until that time comes, we're  
13 really at a point here where there's pretty much not an  
14 incentive for anybody that's a peaker, to want to come build  
15 there, right?

16 MS. SHEFFRIN: Not sufficient revenues, simply  
17 from our markets, but, again, resource adequacy -- right  
18 now, the timetable is that it should be in effect by June of  
19 2006, and all load-serving entities have to show the CPUC  
20 that they're compliant. We're working very hard to keep to  
21 that date, because it is so critical for grid reliability.

22 MR. GREG COOK: And some of these plants that may  
23 -- that we're worried about, may fall, may retire before  
24 that time. The ISO is then looking to potentially enter  
25 into RMR contracts with those units, to keep them afloat

1       until such utilities are able to contract with them or do so  
2       through the resource adequacy requirements.

3               CHAIRMAN WOOD:   Why do the utilities that are --  
4       I guess, most of them are under retail obligation to serve -  
5       - not incented to do that today, in advance of June of 2006?

6               MR. GREG COOK:   Part of what we've heard from the  
7       utilities is, it's really in our flawed congestion  
8       management scheme where, in essence, we -- under our current  
9       congestion scheme, energy supplies are considered delivered  
10      under contracts, just when they get to the zone.

11              The real problems we're having with congestion,  
12      are within the zones, and actually getting power delivered  
13      into the LA Basin on the sub-transmission system.  And,  
14      unfortunately, we do not currently have a congestion  
15      management system that takes that into account, so we have a  
16      lot of infeasible schedules, and the way that the markets  
17      are working, it's much more -- it's much cheaper to contract  
18      with resources outside of those load centers and the have  
19      the ISO basically manage the deliverability to get it pulled  
20      into the load centers.

21              CHAIRMAN WOOD:   Will that get fixed?  I know  
22      there's been a debate that, of course, we've followed  
23      closely, on liquidated damages versus the physical  
24      requirements contracts.  Is that going to be fixed if LD  
25      contracts are allowed after that point, to fix the

1 intrazonal congestion?

2 MR. GREG COOK: Yes -- it won't be fixed until we  
3 have our new nodal market design put into place. Right now,  
4 under the liquidated damages contract, those contracts are  
5 deemed delivered, once they deliver they to the zone.

6 But we found that that does not necessarily mean  
7 that they are deliverable, because there may be intrazonal  
8 congestion.

9 CHAIRMAN WOOD: So the zone means one of the  
10 three zones in California?

11 MR. GREG COOK: Right.

12 CHAIRMAN WOOD: Is that what you mean by "zone"?

13 MR. GREG COOK: Yes.

14 CHAIRMAN WOOD: So, really, the large areas.

15 MS. SHEFFRIN: And not necessarily the load  
16 centers, so, you know, it takes some to get it to the load  
17 center. What happens with those contracts is that then the  
18 burden goes on the ISO to redispatch units to make sure that  
19 then the load is met.

20 CHAIRMAN WOOD: Right. Are those costs over that  
21 zone or over the whole state?

22 MS. SHEFFRIN: Right now, it's uplifted to that  
23 zone.

24 CHAIRMAN WOOD: Okay, so if you get it to SB-15,  
25 then everybody in SB-15 is paying for getting it to the

1 ultimate load?

2 MS. SHEFFRIN: Right. That was the Amendment 60  
3 change, and we'll talk about that in the market issues.

4 But I think that everyone has noted to the CPUC,  
5 concerns about any new liquidated damages contracts, going  
6 forward, so that's been noted.

7 CHAIRMAN WOOD: We're certainly on that, too.

8 MS. SHEFFRIN: Right.

9 COMMISSIONER KELLY: Anjalie, when you say the  
10 resource adequacy requirements that take effect next summer,  
11 do you mean that the resources have to be procured by next  
12 summer, and in place?

13 MS. SHEFFRIN: Yes.

14 COMMISSIONER KELLY: And are you seeing  
15 procurement activities occurring yet?

16 MS. SHEFFRIN: Yes. When we talk to the  
17 utilities -- and there have been many state legislative  
18 hearings on this. Each of them are saying, we're fully  
19 contracted, we're fully contracted, we have our 115 percent  
20 of load, but then, you know, we're concerned, and part of  
21 the issue I'm going to cover is, we are running a grid  
22 simulation.

23 If everybody's contracted, we want to see how  
24 that's going to be delivered to load, and see if, in fact,  
25 all those contracts mean the energy can get to the load in

1 California.

2 COMMISSIONER KELLY: Is there a locational  
3 requirement in the resource adequacy plan?

4 MS. SHEFFRIN: There definitely is. We've put a  
5 lot of energy to make sure that the power is deliverable and  
6 that there is locational requirements.

7 COMMISSIONER KELLY: And when the utilities are  
8 saying that they are fully contracted, are they saying that  
9 they are locationally adequate?

10 MS. SHEFFRIN: I think what they're saying is, as  
11 far as they're concerned, they are locationally adequate for  
12 the current market design, and, of course, the flaw is, not  
13 everything that is accepted day-ahead, can be delivered, and  
14 then we have to redispatch it, so, you know --

15 COMMISSIONER KELLY: So, the current market  
16 design has a problem that everyone knows about, but it's not  
17 being brought to light? In other words, you might say that  
18 you're meeting the resource adequacy requirements, at the  
19 same time knowing that it can't be delivered?

20 MR. GREG COOK: Yes, the CPUC did state last  
21 summer that the utilities should take into account, the  
22 costs of intrazonal congestion when they looked for  
23 contracting for resources for this summer. Talking to  
24 Edison, they said that they have, indeed, contracted with  
25 more units within the LA Basin, and they listed a number of

1 units where they didn't have contracts last year, that they  
2 do this year, so there should be less reliance this year,  
3 going forward, on the ISO to actually make sure that their  
4 schedules are deliverable.

5 COMMISSIONER KELLY: And, Anjalie, would you  
6 repeat for me, when you said that this was going to be  
7 modeled?

8 MS. SHEFFRIN: I'm sorry?

9 COMMISSIONER KELLY: Did you say that this was  
10 going to be modeled by the ISO soon?

11 MS. SHEFFRIN: Oh, yes. We're running a peak-day  
12 summer assessment, because we are concerned that load can be  
13 met when everyone says that they're fully resourced but  
14 we're concerned about the deliverability issue. So we are  
15 running a simulation this week, and I think your Staff is  
16 part of overseeing that simulation, to have everybody, in  
17 essence, give us their schedules for an average one- and  
18 two-year forecast, and, again, how would they change their  
19 schedules and what would be the source of those schedules  
20 for a one- and ten-day forecast and much more extreme hot  
21 weather.

22 And then we want to check, is that power  
23 deliverable? Where does the congestion occur on the grid?  
24 Do we have all of the tools to manage those, if those events  
25 arise?

1                   COMMISSIONER KELLY: And you're doing that, and  
2 will it be completed by Friday?

3                   MS. SHEFFRIN: It will be completed by Friday in  
4 terms of just the simulation, but it will take some more  
5 weeks to analyze the results of that, and after we've done  
6 that, we certainly will be sharing those with the  
7 Commission.

8                   COMMISSIONER KELLY: Thanks.

9                   COMMISSIONER BROWNELL: Have you actually seen  
10 the contracts? Have we actually seen the contracts?

11                  MR. HEDERMAN: I haven't seen them. Dan?

12                  MR. LARCAMP: No.

13                  COMMISSIONER BROWNELL: Have you?

14                  MS. SHEFFRIN: I have not seen the specific  
15 liquidated damages contract and what their terms and  
16 conditions are, but we have explored with some of the  
17 parties who have entered into that, what is the obligation?  
18 What we've heard is, the obligation is that as long as the  
19 power is delivered and accepted in the congestion management  
20 scheme that we have, just day-ahead zonal, that that meets  
21 their obligation, hence the source of concern and hence  
22 running the simulation to see, in fact, if all that power  
23 can be delivered to load.

24                  MR. LARCAMP: We do have our folks on the ground  
25 that have been sitting in on the simulation, so we should be

1 getting the full report in the next few days.

2 COMMISSIONER BROWNELL: Okay, good.

3 (Slide.)

4 MS. SHEFFRIN: Okay, so covering the four market  
5 issues that we analyze, the first one is how well is the new  
6 market software operating? The purpose of it was to make  
7 sure that the ISO was issuing feasible dispatch  
8 instructions. The hope that was once that was fixed, rather  
9 than it being done on a manual basis, it would be on an  
10 automatic basis; that we put in the generation operation  
11 characteristics of each of the units, so we weren't giving  
12 dispatch orders that were infeasible, but that would both  
13 help increase reliability and operational efficiency.

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1                   How did it do? Well, our assessment overall is  
2                   it started out shaky, as any new large software will, but  
3                   we've had a shake-out period, it has improved tremendously.  
4                   There is software tuning going on.

5                   But since the implementation of that first phase  
6                   of the new market design, which is the real-time market  
7                   operation software, we did see better operational control in  
8                   terms of lower CPS violations -- you just heard about the  
9                   NERC standards, control procedure standards. We saw fewer  
10                  violations of those. We saw the Cal ISO purchasing less  
11                  regulation, especially during those high ramp periods that I  
12                  talked about, 6:00 a.m. and 10:00 p.m. Because it has a two  
13                  hour look-ahead feature it can get some of those other units  
14                  ready to be on-line and operating and ramping up so we're  
15                  not so heavily dependent on the regulation units and moving  
16                  them, you know, so far above their preferred operating  
17                  point. So it's a much more balanced operation in terms of  
18                  which units have to take on that tremendous capability of  
19                  ramping up and ramping down during those two hour periods --  
20                  or time period.

21                  Let's see. What else has happened? A part of  
22                  the new Phase I(b) was to have uninstructed deviation  
23                  penalties applied. We have not applied them, but we do show  
24                  them on the bill. And we think that that's had a tremendous  
25                  beneficial effect because, you know, people are saying well

1 if I don't change my operation, I could be subject to these  
2 penalties.

3 The reason we haven't put them in effect is we're  
4 still trying to iron out some of the communication issues.  
5 People are claiming that it's not so easy to put in their  
6 outage data to make sure then that they don't get dispatch  
7 orders and things. So we're trying to get those ironed out  
8 and, after that, making a decision on how best to apply the  
9 uninstructed deviation penalties.

10 In terms of overall price volatility, we have  
11 seen increased price volatility. Some of that is to be  
12 expected because the program is doing economic dispatch so  
13 it is turning units on and then turning them down when it's  
14 economic to do so versus the old way, where you were giving,  
15 you know, manual instructions. So some of that price  
16 volatility is to be expected. The other part of it is again  
17 continuing to fine-tune the parameters that go into that  
18 software, both on the part of the ISO as well as the market  
19 participants will help address some of that price  
20 volatility.

21 The second issue that I'd like to turn to is the  
22 real-time congestion costs or the uplift costs that Chairman  
23 Wood talked about.

24 (Slide.)

25 MS. SHEFFRIN: What we've seen is in 2004 those

1 costs to be \$426 million, up from \$151 million, so a  
2 significant increase. We analyzed the causes of that  
3 increase. What we found, that it was due to a number of  
4 factors. One is, we did have a large number of transmission  
5 D rates last year, so that affected the amount of  
6 redispatching that had to occur. And then secondly, the  
7 fact that so much energy is having to come in from the  
8 Southwest -- not all of it is feasible, but it is accepted  
9 in our day-ahead congestion management market, as Greg  
10 mentioned.

11 So again, there's been a lot of things done to  
12 address this problem. We have seen these costs decrease in  
13 the first quarter of 2005. But, you know, fundamentally the  
14 two things that are going to have to happen to deal with  
15 this is the significant enhancements in transmission to get  
16 rid of those more internal bottlenecks, and I think we've  
17 made a significant effort to do that, both getting ready for  
18 this year as well as plans for additions over the next few  
19 years.

20 And then secondly, we've got to get this new  
21 market redesign which considers the full transmission  
22 network in deciding -- in accepting a schedule rather than  
23 just some of the, you know, greater congestion points at the  
24 zonal level. So I think both of those two problems are  
25 going to help address the high level of real-time

1       redispatches and high costs for interzonal congestion.

2                       (Slide.)

3                       MS. SHEFFRIN: The third issue that we looked at  
4       is bid insufficiency in our ancillary services market.  
5       Again, we noticed this problem really become consistent in  
6       2002 when a large number of these units decided that they  
7       couldn't earn enough revenues through the market and turned  
8       to the ISO and what we called a Condition II contract, which  
9       they're saying look we're not going to operate in the  
10      market, do you need us for reliability purposes? If they  
11      do, then pay our fixed going-forward costs for the year, but  
12      then we won't participate in the market. Well the down side  
13      of that is we relied on some of those bids in our ancillary  
14      service markets.

15                      The way we've tried to address this problem is  
16      two-fold: one of them is previously, before Amendment 60,  
17      units that the ISO -- must-offer units that the ISO would  
18      put on minimum load, we would pay them for that but they  
19      couldn't then bid into the ancillary service market. Part  
20      of Amendment 60 last year was to remove that barrier, so if  
21      the ISO puts them on minimum load they can still bid in and  
22      keep the revenues that they earn from the ancillary service  
23      market. That helped improve bid insufficiency, helped  
24      improve bids about 12 percent. Not quite enough for us to  
25      get rid of all bid insufficiency in our ancillary service

1 markets.

2                   What we're still looking for is some of those  
3 contract terms that preclude those Condition II units --  
4 we're paying the full going-forward fixed costs for the  
5 year; we'd like for them to participate in our ancillary  
6 service market and be able to count on them for ancillary  
7 services. But I think it is going to take some contract  
8 term changes and, of course, those take longer to  
9 renegotiate. But when they come open, we certainly will  
10 make an attempt to do that and again help improve the  
11 bidding into our ancillary service markets.

12                   (Slide.)

13                   MS. SHEFFRIN: And then finally, the fourth thing  
14 that we've all been talking about this morning is the summer  
15 outlook for 2005. And again, we expect supplies to be tight  
16 particularly in Southern California, I think that's been the  
17 theme of my presentation. Under expected conditions one and  
18 two, we have adequate resources to meet load and reserves  
19 but under extreme hot weather or if some unexpected  
20 contingencies occur, we are much tighter, especially in  
21 Southern California.

22                   There are a number of actions that have been  
23 taken. There's the 2005 state preparedness plan where all  
24 the California regulatory agencies have been looking forward  
25 to say what can they do to help improve the situation.

1 We've had some new conservation programs being authorized  
2 similar to what got us through the energy crisis: the 20/20  
3 program, which is if you save 20 percent of your energy  
4 consumption compared to a year ago, you get a 20 percent  
5 credit on your bill. So that was hugely successful during  
6 the energy crisis; they brought that program back.

7           You know, the other thing is we have quite a bit  
8 of voluntary load curtailment that's been signed up for,  
9 interruptible rates where people have been given rate  
10 reductions in turn for interrupting load during high  
11 critical time. Unfortunately, on those we have to declare  
12 a stage two emergency in order to get access to those. And  
13 I have talked to the utilities about our concern about how,  
14 if you're going to depend on conservation on the demand  
15 side, you shouldn't have to call a stage emergency before  
16 you can, you know, get access to it. So again, those are an  
17 issue of contract terms; we're hoping that that gets looked  
18 into and a better accounting of how conservation and demand  
19 side get counted as reserves.

20           (Slide.)

21           MS. SHEFFRIN: Finally, if unanticipated  
22 conditions occur or if extreme hot weather occurs, we are  
23 concerned. That's why we are running a summer peak hour  
24 simulation to assess where the bottleneck's going to be, do  
25 we have the tools to handle it or not, and try to get a

1 handle on that situation early prior to the beginning of the  
2 summer months.

3 (Slide.)

4 MS. SHEFFRIN: So finally, in conclusion, I guess  
5 I would say that the Cal ISO markets performed well and  
6 resulted in stable costs for wholesale electricity, but  
7 there are several market issues that we're following, mainly  
8 focusing on how the markets will perform this summer but  
9 also helping out with the implementation for the long-term  
10 market redesign which is going to be critical to, you know,  
11 market operation.

12 CHAIRMAN WOOD: How's the must-offer working? I  
13 know that was a critical part of the mitigation in 2001?

14 MS. SHEFFRIN: The must-offer costs, when I  
15 talked about interzonal congestion, and they're rising --  
16 that was a large part of it is the minimum load cost  
17 compensation that we paid, must-offer units. I think it's  
18 working well but it has been heavily utilized and we really  
19 would like to get the utilities to forward contract with  
20 these units rather than relying on must-offer to handle the  
21 situation.

22 CHAIRMAN WOOD: Is there some way to make that --  
23 I mean, you know, rather than sign a long-term contract you  
24 may never need, if you know that guy has to produce under  
25 the -- I think for the country relatively tight mitigation

1 that we have existing in California, what's the incentive  
2 for a load-serving entity to actually forward contract as  
3 you recommend?

4 MR. GREG COOK: That's a good question. I think  
5 right now, at least prior to there being very direct rules  
6 coming from the CPUC directing the utilities to do that,  
7 there's not much of an incentive for them to do that. In  
8 fact, I think before last summer there was almost, to an  
9 extent, a disincentive to do that. There's a certain amount  
10 of regulatory risk they have to deal with where they're  
11 looking at -- where they're dealing with their procurement  
12 plans. They want to show that they did a least-cost energy  
13 procurement. These plants that they need to procure with  
14 within the load centers are much less efficient so they're  
15 much more costly, so you'd have to make more of a showing to  
16 show that, yes, these are needed for deliverability reasons.  
17 And it's kind of an ambiguous thing to do at this point  
18 given our current congestion management system to show that,  
19 yeah, we would need to contract with a certain plant and  
20 it's worth us to pay, you know, X over market to contract  
21 with this plant.

22 So I think there was a little bit of risk  
23 diversion on the side of the utilities where they could go  
24 out and, you know, contract with all this new generation  
25 coming in from the Southwest at very attractive prices and

1 then they would just leave it up to the ISO to go ahead and  
2 commit these units under the must-offer process, given that  
3 there's very little if no risk of recovering ISO costs  
4 through their rate proceedings.

5 CHAIRMAN WOOD: I just wonder if there's  
6 something we ought to do to the must-offer. I mean, you  
7 know, it's great for Arizona to have all the generation but  
8 you're going to have this cat fight over who gets to build  
9 it. I can just see where that's going. Patrick will be in  
10 college by the time that one's built; he's in kindergarten  
11 right now.

12 (Laughter.)

13 CHAIRMAN WOOD: Getting the locational signal  
14 sent to build it in the L.A. basin -- you can certainly  
15 build, you know, good clean efficient stuff that is  
16 compliant with all the strict air needs that we have to have  
17 there. I just wonder if there's something we can do, even  
18 in this bridge period, to maybe make the must-offer a little  
19 bit less of a guarantee for people who ought to have an  
20 incentive to lock something in and take it out of the real-  
21 time spot market and move it into the forward market.  
22 Because I agree with Anjalie, I mean, if anything we have  
23 learned from the California experience in the past five  
24 years, it's get in the forward market as much as you can and  
25 let the residual market be used to do the ups and downs and,

1 you know, the shaping and all that.

2 MS. SHEFFRIN: We have noted these concerns at  
3 the CPUC and we've said look, must-offer is not going to be  
4 here forever, it's to your benefit to plan early rather  
5 than, you know, it going away and then you're saying oh my  
6 goodness, what can we do about it. So we have been pushing  
7 the CPUC; I think they do recognize it and part of the  
8 resource adequacy is the locational requirement part and the  
9 deliverability part to try to ensure that there is a  
10 replacement for must-offer. So I think the CPUC is aware  
11 that, you know, they have to do something about that and  
12 must-offer is not a guarantee that's going to stay.

13 CHAIRMAN WOOD: I will say we're penciling in a  
14 revisit to California in early June to have a little  
15 infrastructure conference out there, not a hugely overly  
16 formal one but we have one that we're trying to roll up our  
17 sleeves. This might be worth people thinking about,  
18 including you-all, Anjalie, and other people in the market,  
19 about is there anything prior to the summer peak hitting  
20 here that we should think about to encourage, again, some  
21 more certainty in the market for both sides of the equation,  
22 buyer and seller.

23 MS. SHEFFRIN: And part of the summer simulation  
24 is to see how much is being relied on the must-offer versus  
25 them scheduling correctly.

1                   CHAIRMAN WOOD: Right. I think that will help.

2                   COMMISSIONER BROWNELL: I mean, I think we need  
3 to be honest with ourselves, which is to say that if markets  
4 are in fact working they're attracting investment. And I'd  
5 love to think that this last year was an anomaly and not  
6 drop-off, but I'm not convinced that it is and I think we  
7 really have to examine every aspect that is current to do  
8 what California needs to do, which is support its own  
9 growth.

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1           I think it's wonderful that the Southwest was  
2           able to supply some support, but as we saw in the other  
3           cases, their growth is unbelievable, and I don't think they  
4           view it as their economic responsibility to continue to  
5           support the growth of California at the expense of their  
6           own, so I think that we also have to be realistic about what  
7           the long-term opportunities are going to be there.

8           Clearly, the Northwest hydro situation is not  
9           getting any better, and whether this is a trend or not, once  
10          again, I think we'll see a summer where we're going to have  
11          some issues there, as well.

12          MS. SHEFFRIN: And I think resource adequacy is  
13          not only for the state of California, but it's being talked  
14          about for the West as whole, and it will help identify if  
15          too many people are relying on the same resource, or, in  
16          fact, if everybody has adequate supplies to meet their own  
17          loads.

18          COMMISSIONER BROWNELL: I think it's great that  
19          people are focused on that. For those of us who arrived  
20          four years ago in June, we kind of thought that we'd be  
21          further along in the discussion point and into the building  
22          point, and that was our first conference that we had there  
23          about infrastructure, and we'll look forward to June 2nd.

24          But I think we need to be honest about our  
25          concerns.

1 MS. SHEFFRIN: I couldn't agree with you more.

2 Thank you.

3 CHAIRMAN WOOD: Joe, anything?

4 (No response.)

5 CHAIRMAN WOOD: Thank you, Anjalie.

6 SECRETARY SALAS: Let's continue now with the New  
7 York ISO.

8 (Slide.)

9 MR. PATTON: Good morning. My name is David  
10 Patton, and I serve as the Independent Market Advisor for  
11 the New York ISO, and performed most of the analyses in the  
12 State of the Market Report, so I'll be giving this  
13 presentation. Steve Balsar is the head of the Internal  
14 Market Monitoring and Performance Unit that's at the New  
15 York ISO, so we're both available to answer any questions  
16 you have on the performance of New York during 2004.

17 I'm going to try to move relatively quickly, but  
18 feel free to stop me, if you have any questions or if you  
19 want to go into anything in a little more detail.

20 I think I'll -- what I'm going to do is review  
21 the performance of the New York markets, in general, and  
22 then at the end, provide some comments on significant  
23 changes that have been made. A new real-time market has  
24 been implemented in early 2005, and I can talk briefly about  
25 that, as well as issues that are pending to be addressed in

1 New York.

2 The first figure I wanted to show, shows prices,  
3 energy prices in 2003 and 2004 in day-ahead markets, monthly  
4 in the eastern and western areas in New York. Plotted on  
5 here also is the natural gas prices, which is plotted  
6 against the right axis there.

7 And what you can see from this chart, is that the  
8 east prices are significantly higher, on average, than  
9 prices in the west of New York. This reflects the  
10 congestion that we have in eastern New York and the fact  
11 that the nodal markets in New York do an effective job of  
12 signalling where the congestion is.

13 I'll show you in a few figures from now, more  
14 specifically, where that congestion occurs.

15 But, secondly, I think you can see fairly clearly  
16 that the energy prices in both the east and west, track the  
17 movements in natural gas prices, which is what you would  
18 expect in a well-functioning energy market.

19 Most of the marginal cost for the generating  
20 units is comprised of fuel costs, and in New York, natural  
21 gas and oil resources are on the margin a high percentage of  
22 the time, so that movements in natural gas prices should be  
23 reflected fairly directly in movements in energy prices.

24 Where you see a departure from that, is in the  
25 summer of 2003. And in the summertime, you do expect the

1 electricity prices to rise, even when natural gas prices are  
2 not rising. Largely, this reflects tight conditions during  
3 the summer, and periodic shortages of reserves.

4 In 2004, the reason you don't see that is, we had  
5 a very mild summer, with no shortages, so that the prices  
6 during the summertime in 2004, basically performed like  
7 prices in non-summer periods.

8 (Slide.)

9 MR. PATTON: The next figure shows an all-in  
10 energy price. Essentially what this is, is the energy  
11 price, together with capacity on a per-megawatt hour of load  
12 basis.

13 The capacity values are shown in light blue at  
14 the bottom, and then all other costs, including ancillary  
15 services and operational costs, are shown at the top of the  
16 bar.

17 One thing that you can see from this, is that the  
18 all-in price in New York City is roughly 50 percent higher  
19 in 2004 than locations outside of New York City. And that  
20 signals really two things:

21 One is the effectiveness of the nodal pricing  
22 market in revealing the value of energy at various  
23 locations. New York City is the most constrained location  
24 in New York, and areas within New York City.

25 And secondly, you can see the fairly large

1 difference in the capacity prices in New York City, which is  
2 due to the locational requirements.

3           Once we get to the net revenue analysis, where we  
4 show how much money a new generator can make in various  
5 locations, you'll see how important it is to have that  
6 locational capacity requirement reflected in the capacity  
7 market.

8           One thing I would say is, you can see that there  
9 is a dramatic increase in the all-in price from 2002 to the  
10 2003/2004 time period. It's roughly 36 percent higher and  
11 it's almost all attributable to natural gas prices, which  
12 were significantly higher in the last two years than they  
13 had been previously.

14                           (Slide.)

15           MR. PATTON: The next chart shows you the ratio  
16 of the day-ahead prices to the real-time prices. We all get  
17 up here and talk about this, but I'm not sure any of us  
18 really takes the time to tell you why you should care about  
19 the convergence between the day-ahead and real-time prices.

20           So let me say quickly that the reason that's  
21 important, is that most of the power that's bought and sold  
22 in spot markets, which would be the day-ahead and the real-  
23 time, is transacted in the day-ahead market.

24           Secondly, the day-ahead market really guides the  
25 commitment of generation, so one of the principal reasons

1 you have a day-ahead market, is to rationalize how  
2 generators are turned on and turned off, as opposed to a  
3 system where you only have a balancing market and it's up to  
4 the generators to sort of self-commit their generation.

5 So it provides a much more efficient means to  
6 figure out whether to turn on a unit that is right on the  
7 borderline of possibly being economic.

8 Now, what causes these prices to converge well --  
9 and they have converged relatively well outside of New York  
10 City -- largely is the liquidity of the virtual trading  
11 markets. Bob will probably talk about that in New England.

12 It's a fairly important component of all these  
13 nodal markets, because the primary means to get the day-  
14 ahead market to reflect the prices in real-time, is through  
15 virtual traders and the physical participants in the market  
16 to come in in the day-ahead, and if the prices look low in  
17 the day-ahead, buy more, and if they look high in the day-  
18 ahead, buy less, or sell into the day-ahead.

19 And that then helps rationalize the commitment.  
20 Now, what you can see in New York City, is that the  
21 convergence is pretty erratic in different locations. What  
22 I'm showing you on the right side of this chart, are  
23 different load pockets within New York City that are tightly  
24 constrained.

25 One reason why this looks so erratic, is that we

1 don't allow people to submit virtual trades at specific  
2 locations. All they can do is put in an offer to buy or  
3 sell at the zonal level in New York City, which essentially  
4 distributes that purchase or sale throughout New York City,  
5 so the fact that Astoria East, for example, on average, the  
6 price in the day-ahead market is less than 90 percent of  
7 what it is in real time, that would make you strongly want  
8 to get in there and buy virtually and sell back in the day-  
9 ahead, to arbitrage that, but they don't have the ability to  
10 do that.

11 One of the recommendations that we've made, is  
12 that after a period of evaluation of the real-time market,  
13 if this continues, that we allow more disaggregated virtual  
14 trading.

15 COMMISSIONER KELLY: David, why don't we do that  
16 now?

17 MR. PATTON: Largely, New York was one of the  
18 first markets to introduce virtual trading, I think, after  
19 PJM, and there was a concern that allowing virtual trades at  
20 nodes, can introduce gaming potential, because you could  
21 select locations where your energy sale or purchase was  
22 overloaded at a sensitive transmission facility, you know,  
23 immediately, and cause large swings in prices, and that that  
24 could be used to engage in games that would result in large  
25 payments, if you were an FTR holder or large payments to a

1 generator that happens to be located there.

2 But we have nodal trading in New England and in  
3 PJM, and that hasn't been a significant issue there, so --

4 CHAIRMAN WOOD: What do you have in mind?

5 MR. PATTON: Nodal.

6 CHAIRMAN WOOD: They all have it.

7 MR. PATTON: They all have it, except for New  
8 York.

9 CHAIRMAN WOOD: Okay.

10 COMMISSIONER KELLY: And is there a mitigation  
11 plan in place in those other areas? Was it deemed to be --  
12 I know those aren't your areas, but likely you know.

13 Was it deemed to be a significant enough concern  
14 that there was a mitigation plan?

15 MR. PATTON: There is. The difference between  
16 PJM and everywhere else is, everywhere else that has the  
17 virtual trading, basically, the mitigation is that there's  
18 the authority to restrict the quantity of virtual trades  
19 that somebody can put in at locations, if they engage in  
20 conduct that causes the divergence between the day-ahead and  
21 real-time prices, which is what would signal a problem.

22 To my knowledge, that's only been used once in  
23 any market, and you have the ability to ask the person next  
24 to me about that.

25 But it's -- so there is mitigation to address

1 that sort of gaming potential. In PJM, they focused on the  
2 FTR dimension of it, and said that if you engage in a  
3 virtual trade that creates revenue to your FTR holding, then  
4 we can take our money back or we can refuse to pay you under  
5 your FTR. I think that probably doesn't address all  
6 possible games, but -- and they have actually -- they did  
7 actually have a problem with that, which is why they  
8 proposed that mitigation measure in the first place.

9 COMMISSIONER KELLY: Thank you.

10 (Slide.)

11 MR. PATTON: The next chart shows you mitigation  
12 in the day-ahead market in New York City. This tells you a  
13 number of very important things.

14 In 2004, on May 1st, the prior ConEd mitigation  
15 measures were replaced by the Conduct and Impact Mitigation  
16 Framework. The ConEd mitigation framework was a fairly  
17 simplistic approach that said that when congestion occurs  
18 into the City, we're going to cap people's bids at cost.

19 That sort of mitigation scheme, doesn't require  
20 that anyone really have market power, and it also doesn't  
21 require that anyone with market power, is actually trying to  
22 exercise it. And what that resulted in, for the first few  
23 years of the market, was basically mitigation being imposed  
24 in every hour of the year in the day-ahead. I think that in  
25 2003, there wasn't a single hour where somebody wasn't being

1 mitigated under that approach.

2           The difference in the conduct impact framework,  
3 is that if your definition of market power is that a  
4 generator has the ability to raise prices above competitive  
5 levels by withholding generation, you should be able to show  
6 that somebody is withholding generation and that they're  
7 raising prices, right?

8           And in these markets, we have the ability to  
9 assess that in real time, because we can evaluate the effect  
10 of any offer that's made into the market in very short  
11 timeframes. So, by applying the conduct and impact  
12 mitigation framework, what you can see in this figure, is  
13 that, for example, coming into the City, which is the second  
14 bar labeled ConEd cable interface, that there was congestion  
15 in roughly a third of the hours, so it's relatively  
16 frequent, but mitigation occurred in only 11 percent of the  
17 hours.

18           So that suggests that by applying the conduct and  
19 impact test, that you greatly reduce the frequency of  
20 mitigation, which always has been the primary argument for  
21 this framework, that it's much more selective than the  
22 alternatives.

23

24

25

1                   And it presents interference in the market when  
2 it is not warranted.

3                   (Slide.)

4                   MR. PATTON: Okay. The next chart is the net  
5 revenue from the New York markets. And what the three  
6 sections of every bar you're looking at show you is the  
7 capacity -- the net revenue attributable to capacity on the  
8 bottom, then energy, and then ancillary services. It shows  
9 here new combined cycle resource on the left and a new  
10 combustion turbine on the right at three locations. The  
11 capitol zone happens to be in Eastern New York, upstate.

12                   So what you can see from this chart is if you  
13 remember on the all-in energy price chart, energy was the  
14 dominant component of the price and capacity was relatively  
15 small. When you look at net revenue, capacity becomes much  
16 more important. Because what you're measuring with net  
17 revenue is the profit that a generator is earning over its  
18 variable cost when it runs, and when it earns \$50 in the  
19 energy market, \$40 of that may be variable costs so you lose  
20 a lot of your net revenue from energy but the marginal cost  
21 of supplying capacity is close to zero so all the capacity  
22 translates into net revenue.

23                   And what you can see from this is how important  
24 the net revenue, particularly in New York City, is. While  
25 our conclusion is that in 2004 a new unit is marginally not

1 economic in any -- it's not close to being economic in the  
2 capital zone, and that's because there's a surplus upstate,  
3 so that shouldn't bother you too much.

4 New York City, though, is much tighter and the  
5 net revenue is not quite sufficient in 2004. But had we not  
6 had locational capacity requirements, we would be in deep  
7 trouble in New York City. In fact, you'd have probably most  
8 units in New York City in here wanting RMR contracts from  
9 you. But the locational capacity requirement in New York  
10 pretty much solved that problem. It allows the existing  
11 generators the funds they need to maintain their generation  
12 and new generators to site.

13 Largely the reason that the revenues hasn't been  
14 sufficient in New York City in 2004 is that two components  
15 you need to motivate new investment is high prices during  
16 periods when you're reserve-short -- which is what we call  
17 those shortage periods, even though you're not turning  
18 anyone's lights off. And New York has the most  
19 comprehensive market design to address that with the reserve  
20 demand curves that automatically set prices at the value of  
21 the reliability you're losing when you have to compromise  
22 your reserves. The problem was this was a very mild year so  
23 that never kicked in in 2004, unfortunately, or you could  
24 see the -- or you would see the impact of that. So the  
25 shortage pricing and capacity are the two components.

1                   And if you expect people to build, you need to  
2 see that these net revenue values exceed what it costs  
3 somebody to build. Because nobody's going to go out and  
4 sign a long-term contract -- a buyer in a long-term contract  
5 is not going to pay more than what you see on this chart if  
6 they're smart, unless they have a regulator forcing them to  
7 sign a long-term contract and build some kind of premium  
8 into it.

9                   So if you're looking at a market with perpetual  
10 net revenue that's too low and you're short of capacity,  
11 then you've got a market design problem.

12                   CHAIRMAN WOOD: And so when the demand curves  
13 kick in, what does that show here? Which color --

14                   MR. PATTON: The energy line would get bigger.

15                   CHAIRMAN WOOD: The energy line gets bigger  
16 because the energy costs would be set by the formula at that  
17 stage when you get -- and again it's triggered by a reserve  
18 margin that gets lower than seven or whatever the number is  
19 -- or 18, I think. It ramps down, right?

20                   MR. PATTON: Yeah, it phases but when you're  
21 short of 30-minute reserves, you'd see roughly \$200 a  
22 megawatt-hour increase in energy prices. And when you start  
23 getting short of 10-minute reserves, then prices can go up  
24 over \$1000.

25                   CHAIRMAN WOOD: And the reason that that is done

1 as opposed to just letting that be a market-drive price is  
2 what? Remind me.

3 MR. PATTON: That the generators can't, by  
4 themselves, cause the prices to reflect the lost  
5 reliability. What happens when you go into a shortage is  
6 you're holding out, let's say, a thousand megawatts of  
7 generation and you're holding that out to maintain  
8 reliability and when -- when load is increasing and you need  
9 more supply, you'll start marching up the supply curve. But  
10 when you get to -- when you start getting to a relatively  
11 high point on the supply curve, it's also the point where it  
12 looks like the lights may go out someplace and so the  
13 operator presses the magic button and some of this thousand  
14 megawatts of reserves comes into the market and that moves  
15 you down the supply curve then so you can be looking at a  
16 hundred dollar price when you've just compromised your  
17 reserves.

18 Now the reason you know the hundred dollar price  
19 is wrong is that had we had a choice of a thousand dollar  
20 per megawatt-hour import or, you know, some source of  
21 thousand dollar energy, the market software would have said  
22 I'll take it and set the price at a thousand dollars in  
23 order to maintain my reserves. I only release my reserves  
24 as a last-ditch effort or when I have to. So unless you  
25 attach a value to what you've just done --

1                   CHAIRMAN WOOD: Got it.

2                   MR. PATTON: -- then you defeat the whole  
3 shortage pricing problem -- or shortage pricing -- the  
4 ability to have shortage prices that are efficient.

5                   Now we've experimented by saying, you know, maybe  
6 we can just not mitigate generators. And the problem is  
7 that there's no way of getting -- of having generators that  
8 just offer at high prices get you high prices when you're  
9 actually short and not when you're not short, so it tends to  
10 be unreliable. So hopefully once we get to the point where  
11 we have a normal summer in New York, you'll actually see  
12 more of how this works and I think it's fairly important.

13                   The other dimension that is difficult in every  
14 market -- just set this in the back of your mind as  
15 something that has to be fixed -- is allowing peaking units  
16 to set prices when the marginal source of supply. They sort  
17 of operate on a time frame that's not convenient for a five-  
18 minute dispatch; you know, they turn on every 15 minutes.

19                   CHAIRMAN WOOD: Right.

20                   MR. PATTON: You can't really treat them as on-  
21 line energy like you do a steam unit. So when they're the  
22 marginal source of supply, it's really hard to get them on-  
23 line and setting the price when they should be setting the  
24 price, so that creates some problems. And New York has  
25 invested quite a bit in software improvements to try to

1 handle that, but as far as I know they're quite a bit  
2 further along than most other markets. I certainly would  
3 like to have their software in the Midwest.

4 COMMISSIONER BROWNELL: Why don't you?

5 MR. PATTON: Different vendor.

6 But it's something that I've talked to  
7 participants about. They're running lots of peakers in the  
8 Midwest that aren't setting prices and it's creating  
9 significant problems.

10 CHAIRMAN WOOD: Wait, wait, wait, wait.

11 (Laughter.)

12 CHAIRMAN WOOD: And that's because the software  
13 can't do -- tell me how the New York software is superior to  
14 that?

15 MR. PATTON: The New York software is superior to  
16 that because they have -- when they run their real-time  
17 market, they're essentially running two different markets.  
18 They run one pass that treats the gas turbines as if they  
19 were flexible and on-line and says okay if, with infinite  
20 flexibility, we would take this set of gas turbines anyway,  
21 then they set the price in -- the nodal prices. But when  
22 they do the physical dispatch and actually send signals to  
23 generators, they recognize that the gas turbines are very  
24 fairly inflexible, they take a while to turn on, once  
25 they're on you don't want to turn them off because you won't

1 be able to turn them back on. They can only operate very  
2 close to their maximum level so they don't have a dispatch  
3 range like a normal steam unit.

4 Most markets, basically the pricing and the  
5 physical dispatch are identical to one another so that when  
6 you're faced with this inflexible gas turbine, it prevents  
7 that gas turbine from setting the price so you end up  
8 setting the price by some much more flexible steam unit,  
9 which might be a hundred dollars cheaper. There's no way of  
10 knowing unless you do the secondary test that that gas  
11 turbine energy is really economic.

12 CHAIRMAN WOOD: So having a two-track -- having  
13 one set the market price, which would be what works, which  
14 is what they do in both markets, but what the New York's  
15 does in addition to MISOs is it, on the scheduling basis,  
16 actually looks at the feasibility -- looks at the physical  
17 constraints that exist.

18 MR. PATTON: Yeah, and the terminology you would  
19 recognize from New York in terms of the filings that were  
20 made to implement this, was hybrid pricing for gas turbines.  
21 So that was, you know, a couple of years ago that -- maybe  
22 three years ago that they recognized that as an issue and  
23 worked on the software.

24 MR. LARCAMP: I understand though that the CT  
25 issue in the Midwest is not exclusively the result of

1 software problems but there are many other facets that the  
2 market participants are looking at right now, such as  
3 maintenance and the fact that people may have been bidding  
4 units in incorrectly and a host of other things, is that not  
5 an accurate representation? I don't want to leave the  
6 impression that the software is the primary problem with the  
7 overreliance on the CTs right now.

8 MR. PATTON: Those are contributing factors.  
9 Those factors, I think, contribute to how many peakers are  
10 running. But I think -- I don't project that they're going  
11 to stop running peakers, even if they resolve all those  
12 factors, largely because once you get on the peakers if  
13 they're not setting the price you're not going to get  
14 imports over the roughly 23 interfaces into MISO and you're  
15 not going to be setting prices that cause people to buy more  
16 in the day-ahead market and commit more generation so it's  
17 sort of an issue that sustains itself. Where if they were  
18 setting prices, you'd get more imports from outside and then  
19 you could turn them off. So yeah, it's complex and those  
20 factors are all contributing factors.

21 MR. LARCAMP: I guess, given the fact that we've,  
22 from experience on Staff, learned that effectuating software  
23 changes both is time-consuming, upsetting the market  
24 participants and pretty expensive, that before we start  
25 looking at software fixes we might want to make sure that

1 all of the market participants are playing by the current  
2 market rules and software -- maybe simultaneously at least  
3 while we're looking at the next generation of software.

4 MR. PATTON: Yes, that's certainly true.

5 CHAIRMAN WOOD: One item, to just follow-up on  
6 that, that came up. I was at NERC yesterday and saw Jim  
7 Torgerson. You know, a number of the CTs are not bidding  
8 their minimum cost and so they're going to be at the front  
9 of the line on the dispatch when in fact they could easily  
10 have stayed in the parameters that are permitted under the  
11 current software to say it's going to cost me this much to  
12 ramp up, this much to keep that minimum run, and that those  
13 costs actually would have changed their place in the  
14 dispatch.

15 MR. LARCAMP: And I know that David and his folks  
16 have been having discussions with them making sure that they  
17 understand how the reference prices work. Apparently a lot  
18 of people were not living in the day of the life; well, day  
19 of the life was going on for almost a year in terms of  
20 understanding how the market rules were going to work.

21 CHAIRMAN WOOD: I heard the same thing at the  
22 southwest power pool last week when everybody was ready to  
23 go to the imbalance market to save a billion two dollars  
24 over the next decade and some people didn't actually get  
25 ready for it and thought it wasn't going to be a big deal.

1                   MR. LARCAMP: Staff obviously is looking at this  
2 and we're looking at it both from a commercial issue but  
3 we're also looking at it because the peakers can only run so  
4 long under their mission permits, and there are also issues  
5 with respect to maintenance: after they run so many hours,  
6 they have to be taken down for maintenance. So we're  
7 looking at this not only for a current cost but also for  
8 later in the summer. So I can tell you that our two folks  
9 at MISO are on top of this issue.

10                   CHAIRMAN WOOD: Thank you. All right. Back to  
11 the Empire State.

12                   (Slide.)

13                   MR. PATTON: Okay. The next figure shows you  
14 monthly congestion costs from 2002 to 2004. You'll see that  
15 it rose significantly in 2002, from 2002 to 2003. That's  
16 largely due to the implementation of the modeling of  
17 transmission within New York City which previously hadn't  
18 been reflected in the nodal prices. And that congestion is  
19 among the most significant. It's in New York, so it results  
20 in an increase in the total value of congestion.

21                   CHAIRMAN WOOD: Is congestion -- I'm sorry.  
22 You'll have the answer to that.

23                   MR. PATTON: Let me tell you what this is,  
24 because there's a lot of confusion I think on what people  
25 mean when they say congestion costs or the value of

1 congestion. What I'm showing you on this chart, which  
2 totals over \$600 million in 2004, is the marginal value of  
3 congestion.

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1                   It also is equal to the congestion rent collected  
2 by ISO and then paid out to holders of transmission rights.  
3 Now, this is not the benefit of eliminating the congestion,  
4 which has been estimated to be less than 100 million.

5                   And so when you start thinking about should  
6 transmission investment be motivated by the costs that we  
7 see here, if you're talking about very small-scale  
8 investment, then the marginal value of the transmission is  
9 probably accurate.

10                  If you're talking about siting a big line that's  
11 going to wipe out congestion into New York City, the value  
12 you get from that is much lower than this.

13                  The --

14                  COMMISSIONER KELLY: David, why is that?

15                  MR. PATTON: Think of it like generation. We set  
16 a market clearing price, which is the marginal cost of the  
17 last unit of generation that we dispatch, let's say, \$100.

18                  If I flood the market with generation, I don't  
19 save \$100 for every megawatt of generation, or if I'm able  
20 to cut load to zero -- that's a better analogy -- I don't  
21 save \$100 for every megawatt hour that I don't dispatch; I  
22 save \$100 for the most expensive generator, and then I save  
23 less and less and less and less.

24                  It's the same thing with transmission. If I  
25 incrementally increase the interface capability, I do save

1 the difference in price between the two locations, but then  
2 the difference gets smaller, and if I keep expanding, the  
3 difference gets smaller and smaller and smaller.

4 And it's the -- and the difference that you save  
5 at every step, is really the efficiency; you know, it's the  
6 cheaper generator over there that now can be delivered and  
7 displace the more expensive generator over here.

8 So that's --

9 COMMISSIONER KELLY: Is that how you go about  
10 estimating the benefit?

11 MR. PATTON: Of transmission investment? Yes.  
12 The nice thing about the nodal markets is that it does send  
13 an accurate price signal for investment, but the place where  
14 it has trouble, is if you're talking about economies of  
15 scale where the most efficient investment is a big, new DC  
16 line.

17 If you're talking about incremental investment  
18 and, in my experience, most of the investment we're talking  
19 about, really is incremental, although most people think of  
20 the big, high-voltage line, most of the time, if you asked a  
21 utility, tell me how we can increase the capability between  
22 here and there over the next three or four years, they would  
23 be upgrading a transformer and re-conducting a line and  
24 doing incremental steps, each of which removes one  
25 limitation and increases the capability by some increment,

1       rather that siting a whole new line.

2                       And for those sorts of investments, the nodal  
3 pricing works well and sends the right signal.

4                       When you have economies of scale, where the  
5 congestion is just going to be wiped out, then the value of  
6 the transmission rights you would get after the investment,  
7 that's how you would, in a market context, you would pay  
8 people to build, is to give you transmission rights if you  
9 expand the system.

10                      The value of those rights is going to be very  
11 low. So that's really where if that's the best option,  
12 that's really where planning has to kick in and say, well,  
13 we know this -- we know what you would normally get for this  
14 investment wouldn't be compensatory, but it's still the best  
15 investment, and it's clearly more economic than generation  
16 and other transmission investments, therefore, we're going  
17 to give you a rate of return on it.

18                      But in my opinion, that's what you should -- you  
19 should limit the rate and giving people embedded costs  
20 compensation for investment to that sort of situation.

21                      (Slide.)

22                      MR. PATTON: All right, let's go to the next  
23 chart, where I show you how this breaks down between upstate  
24 and downstate New York. What this figures shows you is  
25 upstate on the left and downstate on the right.

1                   In 2004, the downstate congestion, which is  
2 congestion into New York City, within New York City, and  
3 into Long Island, is roughly five times larger than the  
4 upstate congestion.

5                   This is notable because the Central East  
6 constraint at the start of the market, had been -- had  
7 generated a sizeable amount of congestion. That's what  
8 separates western New York from eastern New York.

9                   But over time, the congestion has decreased on an  
10 interface, because of investments in eastern New York.  
11 We've had some big combined-cycle plants site investment in  
12 New England, so we're getting more power in from New  
13 England, which relieves the need to go from west to east,  
14 and decreased imports from Hydro Quebec, who happen to bring  
15 power in right on top of the constraint, and so they  
16 aggravate it, and they're bringing in less power than they  
17 had historically.

18                   So, for all of those reasons, the upstate  
19 congestion is diminishing, although the downstate congestion  
20 is still significant, particularly within New York City.

21                   (Slide.)

22                   MR. PATTON: I'm going to skip this figure and go  
23 to the next one.

24                   (Slide.)

25                   MR. PATTON: The next one shows you uplift costs.

1 DAM uplift is day-ahead market. That's all the way on the  
2 right.

3 Then there's real-time local reliability uplift  
4 and other real-time uplift. Real-time local reliability  
5 uplift is essentially when you have a constraint in some  
6 local area that is not reflected in your market, so you're  
7 taking actions-out-of-merit to try to resolve it, either  
8 turning on a generator or redispatching a generator.

9 The day-ahead uplift, which has increased -- the  
10 reason that there's day-ahead uplift in New York is, we try  
11 to resolve a lot of the local reliability issues in the day-  
12 ahead market, as opposed to PJM and New York and the Midwest  
13 ISO, which have a reliability commitment process after the  
14 day-ahead market. New York builds it into their day-ahead  
15 market.

16 And because prices were low in 2004, because of  
17 the mild weather, we tended to have to pay more uplift when  
18 we had to bring somebody on to meet a local reliability  
19 requirement, out of the economic order.

20 So the higher prices are the more of the cost  
21 that are going to be compensated through the market and the  
22 less you have to pay in uplift. So that's the main reason  
23 why the uplift increased in 2004.

24 (Slide.)

25 MR. PATTON: Going to the next chart, this is

1 very difficult to see, but let me just tell you that this is  
2 a continuing analysis in a series of analyses on how well  
3 the interfaces between New York and adjacent markets work.

4 The panel you see on your left, is the same plot  
5 that we've been showing for years, which shows the  
6 difference in price between New York and New England. In  
7 our report, we do this for all the interfaces, but the  
8 difference in prices between New York and New England, and  
9 then the flow between New York and New England on the X-  
10 axis.

11 And basically, the upper right quadrant and the  
12 bottom left quadrant, are points or hours when power is  
13 flowing from the higher-priced market to the lower-priced  
14 market. We call them counterintuitive quadrants.

15 The average difference in price in any particular  
16 hour, ignoring the sign, is shown on the right in the bars  
17 between New York and New England, and is roughly \$10 a  
18 megawatt hour.

19 What you can conclude from this analysis, is that  
20 in real time, we're not utilizing the interfaces terribly  
21 efficiently; that participants have a difficult time  
22 arbitraging price differences between the two markets.

23 This excludes situations where the interface is  
24 constrained and you really can't ship more than you are.

25 CHAIRMAN WOOD: When did the right pancake

1 disappear? Wasn't it toward the end of the year?

2 MR. PATTON: Yeah, at the very end of the year,  
3 so it wouldn't be reflected in this.

4 CHAIRMAN WOOD: So, do you think -- can you tell  
5 from any initial 05 data, if that's a problem there that  
6 should be pointed out in this chart, has been remedied by  
7 the elimination of the pancake?

8 MR. PATTON: We think it's getting better, but  
9 it's hard to tell, without looking at a fairly wide  
10 timeframe.

11 CHAIRMAN WOOD: You've got to look at the year.

12 MR. PATTON: But what we should see is that the  
13 \$10 number goes down somewhat, because small price  
14 differences should be more attractive to arbitrage than they  
15 used to be, due to the export fee being eliminated.

16 The large price differences that you see in the  
17 scatter plot, that can often be \$50 or \$100, really,  
18 probably wasn't affected by the export fees as much as by  
19 the uncertainty in the other factors that made it difficult  
20 for participants to arbitrage the price differences.

21 CHAIRMAN WOOD: But it looks like it's roughly  
22 twos-way traffic there, though, right?

23 MR. PATTON: It is, yes. New England and New  
24 York is one interface where the power can really go in  
25 either direction, depending on the situation. They have

1 similar costs in terms of their resources, where, for  
2 instance, the PJM interface tends to go in our direction, in  
3 the New York direction more often.

4 But these results suggest that it still would be  
5 valuable to have the ISOs explicitly coordinate their  
6 physical interchange, which we have affectionately called by  
7 different names. It's changed names again, but it was  
8 virtual regional dispatch, VRD, and I think that now it's  
9 called inter-hour scheduling.

10 We still think it's a good idea; we still think  
11 that participants will never have full information on what  
12 the most efficient thing to do is in real time, and that  
13 implementing a coordinated dispatch between the areas, does  
14 nothing more than manage the interface the way we manage the  
15 internal interfaces inside of our markets, where it's the  
16 offers of the generators and the bids of the loads that  
17 determines what flows.

18 COMMISSIONER BROWNELL: David, we've talked about  
19 that under various names for awhile. What is impeding the  
20 resolution of that?

21 MR. PATTON: Basically lack of participant  
22 support. The participants who should like it, are lukewarm  
23 and may not understand the importance of it.

24 The load-serving entities should all love it,  
25 because under our shortage pricing methodology, the reserve

1 shortages, it's just a matter of time till we set \$1,000  
2 prices in New York when we have unused interface capability,  
3 and then they're going to say, oh, my god, we weren't -- why  
4 were we paying \$1,000, and then I'll say, because we don't  
5 have a system that allows us to fully utilize our  
6 interfaces.

7 Then they will say, we should do VRD, but we  
8 haven't had shortages in New York, so the economic incentive  
9 hasn't been staring them in the face.

10 There are people who benefit from not having it,  
11 and they tend to be the more vocal. The marketing community  
12 likes having the interface, I think.

13 My hypothesis is that it's attractive to them to  
14 have an interface that's not well arbitrated, because they  
15 then can make some money arbitraging it, and for the same  
16 reason that the load should like it, the generators probably  
17 shouldn't like it, because, you know, they might benefit  
18 sometimes from higher prices due to inefficient use of the  
19 interface.

20 So, basically, it hasn't made it through the  
21 governance process, but we did just finish a pilot project  
22 between New York and New England, where they explored --  
23 they had a period of time where they adjusted the  
24 interchange according to the instructions of the ISO, so it  
25 wasn't done economically, but it was just done to see

1       whether we could adjust the flow every 15 minutes and  
2       whether that would -- what that would do to the prices.  
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1                   Now you'll remember that PJM and MISO were dating  
2 somewhat on the region and I think the next step for those  
3 two is to coordinate on the interchange, and I think once  
4 they do that that will be a fairly good model that we can  
5 say this really should be done elsewhere. But I continue to  
6 think it would probably take -- would be something that  
7 takes some pushing by the Commission to get it to happen.

8                   COMMISSIONER BROWNELL: Maybe this is a topic we  
9 can add to the agenda at the regional RTO meeting next week  
10 chaired by Mr. Flynn, because I think these are the very  
11 issues he would like to discuss and the other state  
12 commissioners would like to discuss. We should pursue that.

13                   MR. PATTON: Why don't I just skip over the  
14 ancillary services figure and go just straight to a quick  
15 note.

16                   (Slide.)

17                   MR. PATTON: We've implemented new real-time  
18 markets in February of 2005. It basically has a much better  
19 system of scheduling external transactions and inflexible  
20 resources on a 15-minute basis and has a dispatch model that  
21 runs on a 5-minute basis that looks a lot more like the day-  
22 ahead model. We think it's going to resolve some modeling  
23 inconsistencies between the day-ahead and real-time that had  
24 previously occurred and that we talk about in our report.  
25 And we're going to be evaluating the performance of that

1 market after this summer. It also includes the reserve  
2 demand curves that we talked about.

3 (Slide.)

4 MR. PATTON: Lastly, I'll just say one note is  
5 that in all the markets supplemental commitments that have  
6 to be made for local reliability reasons continue to be  
7 something that affects the outcomes of the markets in New  
8 York, it's the NOX regulations in New York City that cause a  
9 significant amount of commitments to have to be made out of  
10 the market process. So the report recommends improvement be  
11 made in the software to try to explicitly model some of  
12 those environmental requirements.

13 And that's all.

14 CHAIRMAN WOOD: David, thank you as always.  
15 We've peppered you throughout.

16 SECRETARY SALAS: Okay. And now the New England  
17 ISO.

18 MR. ETHIER: Good afternoon. Thanks for the  
19 opportunity to talk about the New England markets. It's  
20 very helpful to follow David because a lot of the high-level  
21 messages are going to be very similar in New England as they  
22 were in New York. And as sort of a procedural item, I have  
23 a heck of a lot of slides here. I'm going to skip through  
24 some of them, certainly please stop me if there are ones I  
25 skip over, and I'll try to cover about half a dozen of the

1 30-plus that you have.

2 (Slide.)

3 MR. ETHIER: Slide two, overview of 2004. The  
4 New England energy markets continued to function well in  
5 2004. They operated as designed, there were no significant  
6 exercises of market power in 2004, so that's clearly a good  
7 message to be able to bring here today.

8 New England, just like New York, was  
9 characterized by low summer loads in the summer of 2004.  
10 Our summer peak was actually 2.3 percent lower than the  
11 preceding year, and that, in turn, was lower than the summer  
12 peak in 2002, so we've really had two years in a row of  
13 relatively cool weather in New England.

14 Our projected peak for this coming summer is  
15 about 2000 megawatts higher than what we experienced in  
16 2004, so fortunately the outlook is good, we should have  
17 adequate capacity to meet that in the upcoming summer should  
18 we hit that peak. Things will be a little tight in the load  
19 pockets of Connecticut and of Boston, which is also a  
20 familiar theme here, but it looks like things are going to  
21 be fine.

22 Again, we had a surplus of generation region-  
23 wide. We've been in this situation for a couple of years.  
24 And that basically is -- those two sort of factors make the  
25 market results look very sensible. We had competitive

1 market results and there were really no strong incentives to  
2 build new capacity in New England, which is what you'd  
3 expect -- we have a peak summer load forecast of this summer  
4 of 26,000 and we have summer-installed capability of 31-,  
5 32,000 megawatts. So it's not so surprising that the  
6 markets are not, on a region-wide basis, signaling the need  
7 for new investment. We do have some areas of New England  
8 that do need investment sooner than that.

9 CHAIRMAN WOOD: We know them well.

10 COMMISSIONER BROWNELL: Several years ago,  
11 actually.

12 MR. ETHIER: Well, yes. Next slide.

13 (Slide.)

14 MR. ETHIER: New England has now operated markets  
15 for a full five years now. We began operating markets in  
16 May of '99. This is our fifth full year, 2004 was, and it  
17 seemed like an appropriate time to sort of step back a  
18 little bit and see sort of what has happened over that time  
19 at a high level. And, you know, in my view there have been  
20 some notable improvements over that time period.

21 We've had approximately 9500 megawatts of new  
22 efficient gas-fired generation built over that timeline.  
23 The average heat rate of liquid fuel resources has decreased  
24 by 5.6 percent. We've had unit availability increases over  
25 that time period of roughly 7 percent on average.

1                   That number is interesting because if you go back  
2 pre-market, the difference looks even bigger. So in the  
3 mid-90s we were seeing availability in the mid-70 percent  
4 range and it's jumped up to the mid-80 percent range. So  
5 that -- you know, I think at least part of the explanation  
6 there is the improved incentives for availability under the  
7 market system, which is certainly good news. Fuel-adjusted  
8 spot prices, consistent with the decline in heat rates, have  
9 decreased by 5.7 percent over the time period, and it's  
10 important to note that because that's often masked by the  
11 world we're living in now with extremely high liquid fuel  
12 prices.

13                   And everybody points to the high prices and has  
14 questions, but you know when natural gas and oil prices are  
15 such a huge driver of the incremental costs of these  
16 resources, it's not surprising that electricity market  
17 prices have gone up. It's important to do the analysis to  
18 understand that the underlying costs have actually decreased  
19 if you normalize fuel prices. So if you strip out the fuel  
20 price changes, things look quite different. And for  
21 example, improvements in our regulation units' performance  
22 have reduced requirements in that market by 29 percent.

23                   So, you know, sort of on this sort of  
24 anniversary, if you will, it seemed reasonable to go back  
25 and take a look at sort of where we've made some progress.

1 The biggest change in 2004 was the introduction of a forward  
2 reserve market. We ran our first auction in December of  
3 2003, beginning, I believe, January 1 of 2004, and I think  
4 that's been successful in introducing incremental investment  
5 as well. We've seen some very specific actions by  
6 participants in response to the incentives provided in the  
7 forward reserve market and those actions have worked to  
8 increase the quick start resources in New England, which we  
9 really don't have enough of. Probably in equilibrium we  
10 should have another thousand megawatts of quick start  
11 resources, and we don't have those resources. But we've  
12 gotten more in part -- and more reliable resources in part  
13 because of this market.

14 For example, we had a unit that signed a firm gas  
15 contract so they could reliably provide reserves in the  
16 winter-time. We had a unit add dual fuel capability so that  
17 they could also more reliably provide reserves. And we  
18 actually had an inefficient combined-cycle resource that was  
19 sort of an older design that wasn't making money in the  
20 energy market say well I'm better off offering as two  
21 separate combustion turbines in the forward-reserve market  
22 than sitting on the sidelines of the energy market 80  
23 percent of the time.

24 So those are the sort of responses that the  
25 market has induced, which to me are the right kinds of

1 incremental responses. You know, we haven't seen the sort  
2 of big bang 200 new megawatts of peaking resources, but  
3 you've seen these incremental investments and market  
4 responses that get you what you need.

5 And this sort of dovetails I think with David's  
6 response about transmission investment. Oftentimes it's the  
7 sort of, the small incremental investments that can make a  
8 big difference, it doesn't have to be the big bang \$500  
9 million investment that's required to resolve your problems.  
10 And that's the nice thing about these market signals is they  
11 send signals to everybody to make big and small investments  
12 alike.

13 CHAIRMAN WOOD: Do the TOs have the incentive to  
14 respond, even in ISO New England? Do they have the  
15 incentive to respond to those if they're not the beneficiary  
16 of making that investment, or their holding company is not  
17 the beneficiary?

18 MR. ETHIER: Well I think that's an area where,  
19 going forward we definitely have to keep working on that. I  
20 think the nice thing about the markets is they provide  
21 signals where investment is needed, but the connection  
22 between those signals and the TO response isn't as strong as  
23 probably we would all like because they live in a different  
24 regulatory world. And that's part of, frankly, our  
25 responsibility as market monitors to highlight those sort of

1 deltas and focus a spotlight on where we need investment and  
2 why the market signals may not be getting to the entity  
3 who's best positioned to resolve that.

4 In New England, we're sort of working through  
5 what we hope are sort of the last big changes in our market  
6 design, and I can easily see the connection to the  
7 transmission investment making that tighter, being sort of  
8 the next wave of our efforts to make the markets work  
9 better.

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1                   Let's go to the next slide.

2                   (Slide.)

3                   MR. ETHIER: 2004 was not without excitement in  
4 New England. As you all know, we experienced exceedingly  
5 cold weather in January of 2004, and it stressed the New  
6 England energy infrastructure, and by that I mean both the  
7 electricity and the gas systems were highly stressed.

8                   It really brought out some issues that needed to  
9 be improved in the operation of those two systems or the  
10 coordination of those two systems.

11                   As a result of that experience and of the  
12 analysis that we did, the ISO implemented basically 29  
13 different recommendations to improve the operation of the  
14 markets under similar circumstances.

15                   Just to highlight a few of those, some of the  
16 biggest ones are: Improved information exchange between the  
17 ISO and the gas pipelines. We now have a much better  
18 handle on how the pipelines are operating, what their limits  
19 are, et cetera, and what generators are more likely to be  
20 able to get gas and operate, and also improve the  
21 information exchange with our participants, so that they  
22 have a better sense of the critical nature of systems on our  
23 system, so that they could be prepared that market prices  
24 might go up, for example, or that they may be called upon to  
25 run to support reliability.

1                   We have gained some additional dual-fuel  
2                   operating flexibility, which is probably some of the low-  
3                   hanging fruit here in terms of getting real additional  
4                   capacity. We have plenty of installed capacity in the  
5                   wintertime in New England, but peak load last winter was  
6                   roughly 22,000 megawatts, and in winter capability, we have  
7                   33,000 megawatts, so we have ample iron in the ground, if  
8                   you will. The real trick is getting the fuel to those  
9                   resources when you need it.

10                   And that's why the dual-fuel capability is so  
11                   important, because when the gas pipelines are constrained a  
12                   handful of days a year, it's really helpful to have all that  
13                   capacity to be able to operate on oil.

14                   Then, finally, under the most extreme conditions,  
15                   we have a temporary solution to adjust the market timeline  
16                   so that the electricity market better coordinates with the  
17                   gas market, and so that we can, importantly, most fully  
18                   utilize the gas infrastructure in New England.

19                   One of the things that we saw last winter was,  
20                   while we used the gas infrastructure pretty well, we didn't  
21                   fully utilize the pipelines coming into New England, and  
22                   it's key under the most stressed situations, that you take  
23                   advantage of every possible Mmbtu that can be brought into  
24                   New England.

25                   One of the impediments there that we saw and

1 still see, is the timing of the electricity market. And so  
2 we have a short-run solution that's in place for a couple of  
3 years to help resolve that, and, in the longer run, we're  
4 looking at some more far-reaching --

5 CHAIRMAN WOOD: Is that a New England solution or  
6 is through the NAESB process?

7 MR. ETHIER: I think some of these issues,  
8 especially the communications improvements that we've come  
9 up with, are going through the NAESB process. I'm not aware  
10 that they are considering the market timing issues as  
11 carefully, in part because that's a complicated problem; it  
12 really is, you know, and, in part because we feel it most  
13 acutely.

14 We're sort of having to figure it out as we go  
15 along. I would hope that if we come up with something that  
16 works, that that can be distributed more widely.

17 Okay, there is some ongoing work from what we  
18 experienced in January. In January 2004, during the cold  
19 snap period, LMPs did not accurately reflect the cost of the  
20 most expensive needed resources on the system, and we took a  
21 look at 2005, and things are much improved in that regard.

22 The caveat, of course, is that it wasn't as cold  
23 in 2005, so you might not see these problems. But it's also  
24 likely that the communications and the forecasting  
25 improvements have helped improve that as well.

1                   If you have more certainty about what units are  
2 going to be around, you are able to dispatch your system in  
3 a more consistent way, rather than if you have a great deal  
4 of uncertainty about units, whether they are going to be  
5 available to operate, the level of reserves you may need to  
6 carry, may increase.

7                   So that's been good, and the other ongoing issue  
8 that we're looking at is the need for increased availability  
9 incentives, so that the 33,000 megawatts that we have,  
10 actually can run when we need it to run. That strikes me as  
11 critically important.

12                   Okay, next slide.

13                   (Slide.)

14                   MR. ETHIER: There are a couple of big  
15 challenges, moving forward. A big one is daily out-of-  
16 merit operations. Those costs have gone up again, for a  
17 variety of reasons.

18                   And the ISO is working -- and this gets back to  
19 your earlier question about are the TOs responding in a  
20 timely manner to the signals that are out there. I think we  
21 have some evidence that they are.

22                   We do have very targeted upgrades that will solve  
23 specific problems that lead to uplift, however, you know,  
24 there's always room for improvement in that area.

25                   And then the other area that we're looking at is

1 unit flexibility. We have -- a lot of the new combined-  
2 cycles -- it may be safe to say that all of the new  
3 combined-cycles have relatively high economic minimum  
4 limits, relative to their economic maximum limits, and  
5 they're big units and they have long run times.

6 So if you have to commit one of those resources  
7 to resolve a transmission problem, it costs a lot more than  
8 if you have to commit a small resource. So, what we're  
9 looking at are rule improvements of software improvements  
10 that allow us to better model combined-cycles in a flexible  
11 ways; that is, a combined-cycle can say, well, I'm willing  
12 to run one of my GTUs instead of two, as long as I'm  
13 comfortable that I'm going to get fully compensated for the  
14 start costs in the second GT, et cetera.

15 I think that would help reduce uplift costs; it  
16 would also help to reduce the out-of-merit problem --  
17 sorry, the out-of-merit impact on reducing LMPs, and so  
18 there are a lot of good things that could come out of that,  
19 and that's one of the important things that we're working  
20 on.

21 And, of course, we still need additional quick-  
22 start units in constrained areas, and we are exploring with  
23 our stakeholders, a locational forward reserve market to  
24 better incent quick-start capability, not just poolwide, but  
25 especially in Connecticut and in NEMA, where we really need

1 it the most. That will also work to reduce uplift.

2 CHAIRMAN WOOD: But what would the product there  
3 be?

4 MR. ETHIER: It would be very similar to our  
5 current forward reserve market, but instead of having all  
6 megawatts in the pool being equal, you'd have constraints,  
7 you'd have requirements in Connecticut and requirements in  
8 Boston, and then requirements in the rest of pool, and  
9 likely what would happen, would be that the prices in Boston  
10 and Connecticut would be higher, because we have a shortage  
11 of quick-start capability in those areas, and that would  
12 provide stronger incentives in those two areas for quick-  
13 start capability.

14 CHAIRMAN WOOD: Okay.

15 MR. ETHIER: And then the other sort of big  
16 challenge, which you all are also well aware of, is the  
17 increase in reliability agreements we've seen over the last  
18 year. It's really been dramatic, yes.

19 Right now, we have about 2200 megawatts under  
20 agreement, with another roughly 4600 megawatts actively  
21 seeking reliability agreements. That's about 20 percent of  
22 the pool, which is never how any of us intended this to sort  
23 of play out in New England.

24 And that just, to me, points out the need for a  
25 long-term resource adequacy solution, because these

1 agreements send no really useful incentives to existing  
2 units, or to potential new entrants to enter the market and  
3 resolve our problems. They're really just sort of a holding  
4 pattern.

5 CHAIRMAN WOOD: And by "long-term," is this the  
6 LICAP proposal that's now before the Commission?

7 (Slide.)

8 MR. ETHIER: That's right, that's right. Okay,  
9 if we can move along to Slide 14, which is sort just a  
10 pictorial representation of the congestion that we see in  
11 New England, it comes out a lot better in color than in  
12 black and white, so I hope you all have color.

13 What these maps of New England do, is show you  
14 the average prices throughout New England in both the day-  
15 ahead and the real-time markets. And the important thing  
16 is, we also put them on the same scale, so that you can see  
17 differences, not only intra-New England, but also  
18 differences across the day-ahead and the real-time markets.

19 And, you know, there are sort of three things  
20 that I would highlight here. One is that Maine is  
21 relatively inexpensive, consistent with lots of generation  
22 and export constraints.

23 Connecticut has the greatest concentration of  
24 red, which means the highest prices. What I would also  
25 point out is that this is a combination of congestion and

1 losses driving these price differences.

2 And losses are non-trivial. The difference in  
3 losses from Maine to Connecticut in an hour, can easily be  
4 \$10 to \$15 a megawatt hour, so there are very big impacts  
5 from losses.

6 And then the other thing that you'll notice on  
7 there, other than the low prices in Maine and high prices in  
8 Connecticut, is that NEMA Boston looks a lot like everywhere  
9 else.

10 And that's largely because of the large amount of  
11 out-of-merit that we have to commit, I believe. If we had  
12 more quick-start resources in Boston, we would see more  
13 constraints and there would be more price separation in the  
14 Boston area, but, in part because of the out-of-merit  
15 actions we have to take, it serves to basically keep the  
16 LMPs in Boston, more consistent with the rest of the pool.

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1                   Probably the next slide we should go to is slide  
2                   24.

3                   (Slide.)

4                   MR. ETHIER: And in some ways this is one of the  
5                   more troubling slides that I have and it looks sort of  
6                   innocuous initially. But this is the total number of  
7                   megawatts we have enrolled in our demand response programs  
8                   by month over the last two-plus years. And I'll admit I  
9                   cheated a little bit and added a little bit on to the end so  
10                  we'd go into 2005 with this.

11                  But basically from roughly June of '03 through  
12                  approximately this April, our demand response enrollment's  
13                  been pretty flat. It's been right around 350 megawatts. In  
14                  the long run, that's not going to be enough. I firmly  
15                  believe that an active and vibrant and deep demand-side  
16                  sector is important for these markets to work well, and  
17                  we've sort of stalled in New England.

18                  And I don't, you know, sort of mean to imply it's  
19                  the fault of the folks who are working on it at the ISO.  
20                  It's really a combination of two things, I think:  
21                  incentives are relatively low right now in part because the  
22                  capacity market is paying very low dollar amounts. So  
23                  there's just not as much money in this program as there has  
24                  been historically.

25                  And the other one is New England's, you know,

1 sort of the next step in demand response is working really  
2 closely with the states to improve the retail rate design,  
3 so that retail customers see something that looks a lot more  
4 like real-time pricing. And whether we'd go all the way to  
5 five-minute prices or not, I don't know, but until we get  
6 the residential and the commercial customers to see the  
7 prices, I despair that we're not going to see the level of  
8 demand response that we really need to have vibrant response  
9 in these markets.

10 So it really hit me, this is, you know, sort of -  
11 - you sort of feel like you live through these markets, you  
12 know what's going on, but then when I saw this graph, it  
13 really struck me that we really haven't made any progress on  
14 this in a couple of years and that's disconcerting.

15 Okay. Let's go to slide 29 next and then we'll  
16 go to the conclusion.

17 (Slide.)

18 MR. ETHIER: Really briefly I mentioned in the  
19 first couple slides that New England would not support a new  
20 resource in 2004, and that's sort of what these numbers  
21 show. If you look at the middle bold columns in both the  
22 combustion turbine table and the combined cycle table, the  
23 bottom row there shows the estimated net revenues in the New  
24 England markets for each of those resources for 2004.  
25 Combustion turbine would have earned about \$52,000 a

1 megawatt-year, which is a big increase over 2003 and that's  
2 driven almost entirely by the forward reserve market. So  
3 there are some real signals being sent by the forward  
4 reserve market to maintain your existing resources and get  
5 some incremental quick-start capability. But again, if you  
6 look against the two right-hand columns for the estimated  
7 fixed cost range for these resources, they're still not --  
8 we're still not at levels that would incent a new unit.

9           And the story is sort of the same for the  
10 combined cycle with the absence of the forward reserve  
11 revenues, because they can't really provide forward reserve  
12 products economically. Combined cycle would have earned  
13 slightly more than half of its estimated annual fixed costs  
14 in 2004. And again, those are consistent with the  
15 relatively low summer loads and with the surplus of  
16 generation pool-wide.

17           Okay. Slide 37.

18           (Slide.)

19           MR. ETHIER: Okay. Conclusions. I think we've  
20 hit on most of these. I do think the cold snap experience,  
21 as difficult as that was, I hope we've learned from that or  
22 we've instituted some real market improvements that will  
23 help reliability in extreme situations, but also just help  
24 the markets function well generally. It doesn't do anybody  
25 any good if we force generators to bear more risk of gas

1 price uncertainty than they need to. So if we can improve  
2 those markets under extreme conditions, it's likely to have  
3 benefits in non-extreme conditions as well.

4 The forward reserve market did provide added  
5 incentives for what we need, but we still have out of market  
6 payment increases that are problematic and we need long-term  
7 resource adequacy to really sort of fill out our market  
8 design.

9 That's all I have.

10 CHAIRMAN WOOD: The lure for the demand response,  
11 to get that curve back on an upward take, price signal?

12 MR. ETHIER: I think if we get -- you know, part  
13 of the problem is when you have a -- and I don't know if  
14 this is a problem necessarily, but the flat line we've seen  
15 is a reflection of the fact that we're surplus generation.  
16 So to the extent that demand responders get the same  
17 incentives that generators get through the ICAP market and  
18 prices, fewer people are interested in even enrolling in the  
19 program because there's not enough money for them if --  
20 let's assume our existing ICAP market sticks around and the  
21 price goes to six bucks, you have a much stronger incentive  
22 for demand response resources.

23 So I think there -- when the market conditions  
24 change, there is some natural improvement that's likely, but  
25 I really do think we need to sort of push beyond the

1 existing regulatory barriers that, you know, I think are at  
2 the state level and we really need to work with the states  
3 to improve that because I know they want more demand  
4 response, too, and we need to figure out how to get that  
5 done.

6 CHAIRMAN WOOD: Thank you.

7 MR. HEDERMAN: Could I ask a follow-up on that?  
8 Is the demand response that is in place at all related to  
9 where the load pocket problems are, or do you have a sense  
10 of that?

11 MR. ETHIER: It is, although I'll have to confess  
12 part of it is due to the Southwest Connecticut RFP that we  
13 issued a year and a half ago. So a big chunk of our demand  
14 response is in the Connecticut area -- and maybe that's  
15 actually a good answer to the previous question, which is we  
16 paid them relatively high dollar amounts relative to what  
17 they can get in the market today and we get a lot of demand  
18 response. But, you know, you're talking something on, you  
19 know, in the \$8-9 a kilowatt-month range versus what ICAP is  
20 currently paying, which is about 10 cents. So with strong  
21 incentives we were able to get it and we were able to get it  
22 in the right areas, but until we get that.

23 MR. HEDERMAN: Yeah. Okay. Thanks.

24 CHAIRMAN WOOD: Questions for Bob?

25 (No response.)

1                   CHAIRMAN WOOD: All three of you, thank you very  
2 much. We've really enjoyed these visits.

3                   SECRETARY SALAS: Next for discussion is A-3.  
4 This is 2005 Summer Energy Market Assessment. It's a  
5 presentation by Steve Harvey, Tom Pinkston, Harry Singh, and  
6 Colin Mount.

7                   MR. PINKSTON: Good afternoon, Mr. Chairman, and  
8 Commissioners. We are pleased to present the Summer Energy  
9 Market Assessment for 2005. The presentation will also be  
10 made available on the FERC website.

11                   Nationally, most regions have adequate or better  
12 reserves and are likely to face no problems this summer.  
13 However, higher fuel costs than the past few years are  
14 likely to result in higher electricity prices in general.  
15 Also, certain locations could face market stress under  
16 extreme weather conditions, particularly load pockets in the  
17 Northeast, like Southwest Connecticut, and areas in the  
18 West, like Southern California. I will present the first  
19 part of the assessment and then Steve Harvey will discuss  
20 Western market issues and summarize the report.

21                   (Slide.)

22                   MR. PINKSTON: Regional issues vary depending on  
23 demand resources and operations. This annotated map of the  
24 United States highlights specific regional issues we've  
25 identified as important for the summer. I will focus on New

1 England for a minute and Steve will discuss the West after  
2 I'm finished, so for now we'll look at the Midwest where we  
3 think the primary issues are the operation and execution of  
4 MISOs transition to fully-functioning RTO markets, the  
5 coordination between PJM and MISO, and PJM's integration of  
6 new areas, most recently of Dominion last weekend.

7 In New York, we continue to focus on the load  
8 pockets of New York City and Long Island. We are also  
9 monitoring occasional short-term price spikes in the New  
10 York ISO. These spikes appear to be related to recent  
11 software changes and are often reversed and corrected.  
12 Nevertheless, we are watching their behavior.

13 (Slide.)

14 MR. PINKSTON: Let's start broadly with fuel  
15 prices. These charts of natural gas and cold spot prices  
16 starting in 2003, combined with futures prices for this  
17 summer, show that higher prices than last year will continue  
18 to put upward pressure on power prices nationally. These  
19 effects will tend to be most significant in regions highly  
20 dependent on gas-fired generation.

21 (Slide.)

22 MR. PINKSTON: We have healthy gas storage  
23 inventories, but oil has been driving prices higher. While  
24 inventories are comfortably above the five-year average,  
25 we've found that gas prices have followed oil prices. For

1 example, as you can see on this chart, gas prices delivered  
2 to New York City have traded between number two heating oil  
3 and number six fuel oil for several years, with occasional  
4 forays higher due to locational scarcity. Most recently,  
5 gas prices have remained at a lower end of that price range,  
6 indicating reduced gas supply stress. Recent weakness in  
7 oil prices -- if dropping below \$50 per barrel can be  
8 considered weak -- have been closely followed by drops in  
9 gas prices, although stronger fuel prices are likely to keep  
10 average electricity prices higher than those experienced  
11 altogether in the past few years.

12 (Slide.)

13 MR. PINKSTON: Now I'd like to speak to New  
14 England in a little more detail. Recent New England ISO  
15 forecasts have indicated the potential under extreme  
16 conditions for some problems in New England this summer.  
17 ISO New England's expected 2005 peak load will reach 26,355  
18 megawatts at least one day during the summer and could go as  
19 high as 27,985 megawatts during an extended heat spell. The  
20 previous record peak load of 25,348 megawatts was sent on  
21 August the 14th, 2002. Nevertheless, we think New England  
22 should have a slim surplus of capacity provided the summer  
23 is not exceptionally hot and loads remain within the  
24 expected range.

25 Specific load pockets in New England could be

1 tighter. Currently Connecticut's capacity is inadequate to  
2 serve demand -- or Southwest Connecticut's capacity is  
3 inadequate to serve demand and meet reliability  
4 requirements. In the southwest, the ISO uses emergency  
5 resources and operating procedures to keep the lights on.  
6 This year, as in previous years, the ISO has secured 218  
7 megawatts of emergency resource portable generators to help  
8 maintain reliability in Connecticut.

9 MR. HARVEY: Thanks, Tom.

10 Our review of supply and demand conditions in the  
11 West this summer indicates that there may be periods of  
12 market tightness, most likely expressed as price spikes and  
13 possible interruptions. I want to be clear about this:  
14 spikes and interruptions are not the most likely result. We  
15 believe that the most likely situation is no serious  
16 disruption. However, the possibility remains and we need to  
17 take it seriously as we plan our oversight activities for  
18 the summer. Let me describe the conditions that might  
19 result in disruptions in a little bit more detail.

20 (Slide.)

21 MR. HARVEY: We graphed the generation mix for  
22 the Western Electricity Coordinating Council to get a  
23 general idea of capacity mix for electricity in the West.  
24 As you can see, a large portion of the capacity is  
25 hydroelectric, close to 30 percent. Much of that is in the

1 Pacific Northwest. Gas is important, too, with a little  
2 more than 20 percent from combined cycle, turbine, and other  
3 gas-fired generation, and another 17 percent dual fuel of  
4 gas and oil.

5 Like the rest of the U.S., much of the gas-fired  
6 generation is fairly new; most of it developed since 2000.  
7 Given Tom's comments before about the price of oil and  
8 natural gas, gas-fired generation is likely to be higher  
9 priced than in the past few years. This consideration is  
10 even more important given the story in the next slide.

11 (Slide.)

12 MR. HARVEY: The outlook for hydroelectric  
13 generation is not good for this summer. With the exception  
14 of California, that faced extraordinary levels of  
15 precipitation over the last winter, the West broadly has  
16 much less water available for hydro generation than in an  
17 average year. Late precipitation improved the situation  
18 somewhat, and British Columbia and Idaho now are in better  
19 shape than a year ago. Still, Washington, Montana, and  
20 Oregon now face very low levels of snow water equivalent.  
21 In fact, the latest forecast for the Columbia basin from  
22 April through September is 66 percent of throughput of  
23 normal.

24 With hydro at low levels, natural gas is clearly  
25 the most significant --

1                   COMMISSIONER KELLY:  And Steve, what was the --  
2                   what was last season's percent --

3                   MR. HARVEY:  I don't know.

4                   COMMISSIONER KELLY:  About 70?

5                   MR. HARVEY:  I think that's right.  This is  
6                   apparently the driest six years in a row, so it's been sort  
7                   of cumulative effects over that time.

8                   With hydro at low levels, natural gas is clearly  
9                   the most significant potential contributor to capacity and  
10                  energy needs in the West this summer.  Consequently, we  
11                  expect electricity prices in the West to be higher on  
12                  average than over the last few summers, driven solely by the  
13                  use of gas-fired generation to make up for the hydroelectric  
14                  generation.  In effect, gas-fired generation will be  
15                  competing with natural gas storage fill through the summer  
16                  in the West, possibly affecting prices as well.  We'll be  
17                  watching storage fill to see if there are any potential  
18                  longer-term effects on gas supply.  The western pipeline  
19                  system, however, appears adequate to handle the total load  
20                  at this point.

21                  (Slide.)

22                  MR. HARVEY:  Now let's consider effects of  
23                  demand.  Extensive economic growth in Southern California  
24                  has created conditions where, under extreme temperatures,  
25                  capacity may not be adequate to cover all load.  The

1 California ISO and the California Energy Commission have  
2 been actively documenting these conditions and the graph  
3 shows the most recent results for Southern California as  
4 calculated by the ISO.

5 Under projected hot temperature conditions, it  
6 appears that reserve margins would be inadequate for  
7 Southern California in August and very tight in September.  
8 Again, I should stress that this problem only appears under  
9 fairly extreme conditions and may not appear at all.  
10 Nevertheless, we are aware that the California ISO, the  
11 California Energy Commission, and the California Public  
12 Utility Commission have been working closely with the  
13 Governor's office to understand the situation and to look  
14 for potential solutions. And Anjalie spoke a little bit  
15 about some of those efforts earlier.

16 The graph does not take into account certain  
17 possible demand actions, for example, the effects of  
18 interrupting interruptible load. I should note that the  
19 graph does assume very high levels of imports into  
20 California, including imports from the Pacific Northwest.  
21 We have been told that on a peaking basis, capacity of  
22 Northwestern hydroelectric generation should be available in  
23 California.

24 (Slide.)

25 Summer demand conditions are further complicated

1 by recent weather forecasting. The most recent summer  
2 temperature forecast from the National Oceanic and  
3 Atmospheric Administration is for above normal heat in the  
4 West. This NOAA-published map is for July, August, and  
5 September and shows widespread forecasted above average  
6 temperatures across the West, with much above average  
7 temperatures in the Desert Southwest.

8 If the weather plays out as projected by NOAA,  
9 there will be a lot of stress on the western grid. That  
10 kind of stress can result in problems beyond simply high  
11 demand. Heavily-used equipment is more vulnerable to  
12 outages. Outages of generation or of transmission lines  
13 could result in localized problems in a stressed western  
14 grid. These kinds of outages are not really predictable,  
15 but dry weather in the Northwest, for example, could  
16 increase the likelihood of wildfires that could, in turn,  
17 threaten transmission.

18 (Slide.)

19 What would periods of stress look like in western  
20 markets for the summer of 2005? First of all, prices are  
21 likely to start higher than in the past few summers due to  
22 the greater reliance on natural gas instead of hydroelectric  
23 generation. With periods -- probably short periods of  
24 extreme heat, there could be price spikes to fairly high  
25 levels for interruptions of service in extreme cases.

1                   I would note that this possibility is entirely  
2 related to market fundamentals. In our view, the likelihood  
3 of spot price manipulation is lower in cases of stress than  
4 in the past for three reasons: the first is the extent of  
5 forward contracting. Many utilities in the West have  
6 contracted to cover most of their needs under longer-term  
7 contracts. They will tend to go to spot markets only under  
8 more extreme circumstances. Second, the Commission has  
9 added rules -- most significantly the behavior rules  
10 designed to clarify the most significant areas of concern  
11 regarding buyer and seller behavior. And finally, we'll  
12 continue to oversee market activity through the summer.

13                   (Slide.)

14                   MR. HARVEY: I'd like to summarize our report  
15 today, as we always have, by pointing out the areas of  
16 oversight we plan to focus on this summer. They include the  
17 Western market behavior and activity I've just described, as  
18 well as activity in the Northeastern load pockets Tom  
19 identified earlier, progress in the on-going MISO market  
20 implementation, the price spikes we've noticed in New York  
21 since the implementation of their new software and related  
22 in certain cases, as Tom pointed out, to the implementation  
23 of the new software and in other cases to some of the  
24 changes that David Patton spoke about earlier today with  
25 regard to how dispatch works, creating some short-term peaks

1 at certain times, and the status of storage fill  
2 particularly in the West as the summer goes on.

3 Please note once again nationally most regions  
4 have adequate or better reserves and are likely to face few  
5 market problems. Even in tighter areas such as the West and  
6 the Northeast load pockets, like Southwest Connecticut,  
7 severe problems are unlikely unless hot weather is quite  
8 severe.

9 Finally, I'd like to quickly thank the many  
10 contributors listed in the presentation, though in the  
11 interest of time I won't read all their names. I would like  
12 to say that the development particularly of our views on the  
13 West this summer have been formed by close coordination  
14 across Commission Staff, including active representation by  
15 OMTR, by OEP, by the General Counsel's office, along with  
16 the OMOI staff.

17 Tom, Harry, Colin, and I would be happy to take  
18 any of your questions at this point.

19 COMMISSIONER BROWNELL: I'm looking at -- I don't  
20 have page numbers. I'm looking at the snow water equivalent  
21 and looking at Washington, Montana, and Oregon at 32 percent  
22 for Washington, 59 percent, 53 percent. Hard to imagine  
23 that problems are unlikely, but why don't you say a little  
24 bit more about that. You talk about reliance on gas. No  
25 question that prices are going to be higher in those

1 regions. And do we really believe they have sufficient  
2 capacity and what about take-away capacity in California, is  
3 that sufficient -- because that was an issue before.

4 MR. HARVEY: Sure.

5 COMMISSIONER BROWNELL: So let's say more about  
6 that. Because as I recall, maybe incorrectly, last summer  
7 we had some heat in California but fortunately it was  
8 raining and cold in the Northwest, but even with the good  
9 rainstorm in the Northwest, I think that's going to be a  
10 problem for California, as well as for the Northwest.

11 MR. HARVEY: Right. This is one of the questions  
12 we've been sort of working with, which is the California  
13 estimates are very dependent on high levels of imports --  
14 that would be both from the Northwest and from the Southwest  
15 at this point. The question then is at these levels of  
16 generation with hydroelectric, can that be covered? And  
17 when that question was -- when we raised that question  
18 basically with the folks from the Northwest, the answer was  
19 very carefully phrased that said we have a lot of capacity,  
20 in effect, that hydroelectric plants in effect represent  
21 capacity and that during peak periods we can deliver energy  
22 but that we need to get paid back in energy in order to  
23 maintain the water behind the dams.

24 There seemed to be comfort that that would be  
25 possible and, having raised that question with Californians

1 and with those in the Pacific Northwest, that seems to be  
2 the deal implicitly in there is that during peak periods in  
3 the South they'll deliver energy and they'll get energy back  
4 at other times. If that works -- and I've been told no  
5 reason why it wouldn't work -- then in theory that would be  
6 okay.

7 COMMISSIONER BROWNELL: It's a great deal if you  
8 have it, but it doesn't look like they have it. I mean, in  
9 theory it's terrific.

10 MR. HARVEY: Right. Right. And again it has to  
11 do with water behind the dam and then selectively running  
12 it. Now there are other questions because there are other  
13 constraints on how you run a dam -- recreational reasons,  
14 fisheries, and those sorts of things -- but again, having  
15 asked that question explicitly, what we've been told is  
16 given that deal it will be possible to manage.

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1 COMMISSIONER BROWNELL: BPA said that?

2 MR. HARVEY: It was the Northwest.

3 COMMISSIONER KELLY: Steve, who does that  
4 coordination? Who's responsible for the arrangements and  
5 implementing the arrangements?

6 MR. HARVEY: As far as I can tell, no one is  
7 responsible for implementing the arrangements. The use of  
8 that capacity, sort of on a spot basis, coming out of the  
9 Northwest into California, would presumably be through the  
10 ISO and through arrangements with BPA, for example, in that  
11 case.

12 And so my presumption is that it would be a deal  
13 between those entities that would work that out explicitly.

14 COMMISSIONER KELLY: Would the WECC be involved?  
15 I mean, there is no regional --

16 MR. HARVEY: Right.

17 COMMISSIONER KELLY: -- planning center in the  
18 West.

19 MR. HARVEY: Right.

20 COMMISSIONER KELLY: So I'm wondering how likely  
21 it is that this kind of arrangement, which sounds terrific,  
22 can be implemented and who is going to be responsible for  
23 implementing it.

24 MR. HARVEY: Again, as best I can tell, the  
25 responsibility will be the California ISO's and entities in

1 the Northwest, probably, and, presumably, BPA is the most  
2 significant one.

3 WECC is aware, I believe, of the issues and aware  
4 of the sort of back-and-forth, but I would say there is no  
5 direct coordination of that ahead of time.

6 COMMISSIONER KELLY: Mr. Chairman, can I ask  
7 Anjalie a question?

8 CHAIRMAN WOOD: Yes. Oh, good, she's still here.

9 COMMISSIONER KELLY: Thanks. Thanks, Anjalie.

10 Anjalie, has the California ISO been involved in  
11 this kind of an arrangement or coordination before?

12 MS. SHEFFRIN: Historically, the West has used  
13 this type of arrangement. At the height of the energy  
14 crisis, there were arrangements where utilities in  
15 California would buy power on-peak and return twice that  
16 amount off-peak, so those are common arrangements.

17 In terms of who would --

18 COMMISSIONER KELLY: But was that an arrangement  
19 that happened after the market -- while the market existed,  
20 or afterwards?

21 MS. SHEFFRIN: Afterwards, right at the height of  
22 the crisis when the market melted down.

23 COMMISSIONER KELLY: And did it involve  
24 individual decisions by the load-serving entities in  
25 California, or was it coordinated through the ISO or the

1 Governor's Office, or the PUC?

2 MS. SHEFFRIN: A large amount of those exchanges  
3 are bilateral exchanges, so they're worked out between the  
4 utilities and BPA, and they are bilateral contracts that are  
5 signed, so the majority of them are in those types of  
6 contracts.

7 COMMISSIONER KELLY: Thanks.

8 MR. LARCAMP: All I will say is, last time, a  
9 couple of utilities weren't meeting their load, and that  
10 there were tremendous amounts that the ISO had to acquire in  
11 real time.

12 MR. SINGH: Yes, we had conversations with some  
13 utilities that have indicated to us that they have been in  
14 discussions with entities in British Columbia, like PowerX  
15 and with BPA to discuss such arrangements.

16 COMMISSIONER KELLY: Well, in your new executive  
17 director's connections with British Columbia, that should be  
18 helpful. Thanks.

19 CHAIRMAN WOOD: If they'd want to play. There's  
20 a lot of feuding going on in that market, that I don't think  
21 is very constructive for the summer.

22 Are there people that aren't going to play  
23 because of uncertainty about the rules? I mean, is there  
24 uncertainty? I mean, you hear some things, just from the  
25 trader talk, but what do we really think with regard to, you

1 know, the likelihood of people just not participating in the  
2 market?

3 MR. HARVEY: We've spent some time talking to  
4 various participants in the Western market to try to get a  
5 sense of that. Now, obviously, talking, as FERC Staff  
6 talking to the participants in the market will -- we're  
7 likely to get a certain kind of story in certain cases, but  
8 we have really been doing a fair amount of outreach on that.

9 And it's a fairly uniform response, that there is  
10 a great deal of concern, particularly if prices go high,  
11 that transacting in this market could be dangerous. I think  
12 that comes from a couple of perceptions:

13 A lot of it is, of course, how history has played  
14 out for 2000 and 2001; part of that is also how the ceilings  
15 would kick in in terms of price ceilings and how those would  
16 be applied.

17 And what we're hearing is that, in effect, there  
18 are risks associated with payment; there are risks  
19 associated with being investigated; there are risks  
20 associated with reputation by participating in the markets,  
21 if they really heat up.

22 And so we've heard, in a fairly widespread way,  
23 that there's not a lot of interest in participating, if  
24 things get fairly extreme. Now, many of these entities have  
25 done long-term contracts with the utilities in California,

1 and that may mitigate some of that effect by going to the  
2 longer-term contracts, early on in the process.

3 But that concern has been expressed. Obviously,  
4 that would be very bad under extreme circumstances, to have  
5 people, you know, hesitant to go into that market.

6 CHAIRMAN WOOD: Well, you know, in light of the  
7 way we kind of move forward, you know, through pretty  
8 brambly patches with the indexes, it would be nice if people  
9 could get comfortable that, you know, within the parameters  
10 of what the Commission has laid out over the last four  
11 years, there is an umbrella under which to operate, even in  
12 the high-price environment, that there won't be some after-  
13 the-fact investigation, that any changes we'd make to the  
14 market rules, as we just did last month with California's  
15 market rule, would be prospective in nature.

16 If there's an opportunity here between now and  
17 the summer peak for the Commission to provide some clarity,  
18 I would just like to publicly invite anybody in the  
19 marketplace to contact you guys in RMTR and OMOI and OEP, to  
20 talk about any concerns they have, and y'all can bring them  
21 back up to the Commission, and, if necessary, we'll talk  
22 about them in public, but at least we can be aware of what  
23 those concerns are.

24 It is important, I think, in light of our recent  
25 past history, to make sure that we aren't faced with the

1 gotcha, yet we also have people know what the rules are and  
2 they play by them. There's an opportunity to satisfy  
3 demands in this scarce market, when you see -- what is the -  
4 - is it Washington State with the most supply?

5 COMMISSIONER BROWNELL: Yes, 32 percent.

6 CHAIRMAN WOOD: By far the biggest hydro capacity  
7 state up there. Gee, I mean, that's very troubling. So, I  
8 think this could be a western-wide issue. Southern  
9 California would be, as we all talked with Anjalie and among  
10 ourselves, be the exacerbating point, but it doesn't look  
11 like, from the weather map, it's going to be just there.

12 MR. HARVEY: It could be much more widespreading,  
13 depending again on the conditions of the grid and the  
14 operations there.

15 CHAIRMAN WOOD: Well, my Rosary has lost a few  
16 beads over the last one of these summers, I guess I'll have  
17 to get a new one with the new Pope's face on it, or  
18 something.

19 COMMISSIONER BROWNELL: You know what, though? I  
20 think, in addition to that, Pat, maybe we could ask the team  
21 overseeing the Western markets to really work with the  
22 Northwest Coordinating Council, if they have the most  
23 accurate information. Let's dig down into this Northwest  
24 situation.

25 I think that, given the experience in 2001 when

1 prices go up, there will be an automatic assumption that  
2 it's market manipulation, when it's pretty clear that at 32,  
3 39 and 53 percent, they're going to be relying on gas.

4 We ought to look at the potential gas prices,  
5 kind of what that might look like, so that people are  
6 actually prepared and understand the fundamentals.

7 I think that's critically important, and I think  
8 we ought to validate the data and maybe work with WECC as  
9 well.

10 CHAIRMAN WOOD: Anything else from the team?

11 MR. HEDERMAN: Can I just clarify one point about  
12 that 32 percent? I'm sure Mark Robinson could speak more  
13 knowledgeably to this than I can, but notice that the Idaho  
14 and Montana numbers are not quite as severe, and they have  
15 significant downstream capacity.

16 So, in other words, the snow pack is going to  
17 move down out of the mountains and that will flow through  
18 Washington, so that the 32 percent is just talking about the  
19 snow pack in the State of Washington. So, the 60 percent is  
20 probably more the number that tells you what you're going to  
21 get out of it, relative to an average year.

22 COMMISSIONER BROWNELL: Sixty percent isn't 100  
23 percent, and I think you'd have to look at the growth  
24 numbers in the Northwest, whose economy has also improved,  
25 perhaps not as much as California.

1           I just think that we better have a very accurate  
2 picture. We've picked on California, and we'll continue to  
3 do that, but I think we better make sure that everyone  
4 understands exactly what the potential impact is.

5           It also might not be a bad idea to get NOAA over  
6 for a briefing. You know, we've talked about temperature,  
7 but storms are a major issue in California. Actually, the  
8 Northeast -- I was talking to someone the other day --  
9 hasn't had a hurricane in 20 years, and that's about their  
10 average.

11           That has, I think, huge implications that need to  
12 be considered, as well.

13           CHAIRMAN WOOD: I'm looking at the slides with  
14 all the different breakout of the regions, and I'm looking  
15 at NWP, which I assume would be what we're talking about,  
16 and, you know, if you're talking about hydro at, you know,  
17 half of the rated capacity -- it's just hard to know how to  
18 read the hydro numbers, just because of the energy nature of  
19 that resource.

20           MR. HARVEY: Right, right.

21           CHAIRMAN WOOD: You know, I do think, even with  
22 what looks like an attractive reserve margin, it's, from  
23 your numbers, not really going to be there. It could be  
24 there peak, but it won't be there sustained. You had a lot  
25 of needle peaks, which is not necessarily the pattern.

1                   MR. HARVEY: Clearly, the way that the implicit  
2 deal works, is to use that hydro for peaking, in effect, and  
3 what that exactly means, given the large addition of gas-  
4 fired generation in the last five years, to the overall gas  
5 system, is not clear to us right now.

6                   So an average or warmer summer out there, you  
7 know, we're going to learn, doing as much research as we can  
8 and as much coordination as we can, will be important.

9                   COMMISSIONER BROWNELL: This would be the summer  
10 that I'd like to not learn as we go.

11                   (Laughter.)

12                   MR. HARVEY: That's understandable.

13                   CHAIRMAN WOOD: In that CNB chart, while I'm on  
14 that one, Steve, what is the "Other". It has the margin in  
15 California and "All Other." Is that renewable or what?

16                   MR. HARVEY: I am not completely sure, so I would  
17 hate to give you the wrong answer.

18                   CHAIRMAN WOOD: That's the only one that I don't  
19 see on the list.

20                   MR. HARVEY: Yeah.

21                   CHAIRMAN WOOD: All right, any -- Joe, Nora,  
22 Sudeen?

23                   (No response.)

24                   CHAIRMAN WOOD: All right, I thank the team.

25                   SECRETARY SALAS: Next in the discussion agenda

1 is a joint presentation of E-6, Standards for Business  
2 Practices and Communication Protocols for Public Utilities,  
3 and G-3, Standards for Business Practices of Interstate  
4 Natural Gas Pipelines. This is a presentation by Marvin  
5 Rosenberg, Jamie Chablinsky, Kay Morice, Mike Goldenberg,  
6 and Gary Cohen.

7 MR. ROSENBERG: Good afternoon. There are two  
8 items on this agenda that are related to standards developed  
9 by the North American Energy Standards Board. One item is  
10 Notice of Proposed Rulemaking and the other is a final rule.

11 E-6 is a Draft Notice of Proposed Rulemaking,  
12 proposing to adopt the first set of standards developed by  
13 NAESB's Wholesale Electric Quadrant. It follows procedures  
14 used by the Commission for NAESB's natural gas standards,  
15 and proposes to incorporate the standards, by reference,  
16 into the Commission's regulations.

17 This first set of standards contains OASIS  
18 standards and standards which complement NERC's Version 0  
19 reliability standards. Once adopted by the Commission, all  
20 public utilities will be required to abide by these  
21 standards.

22 Until now, the Commission had relied on ad hoc  
23 working groups to develop and maintain OASIS standards.  
24 With this NOPR, NAESB, which has a successful record of  
25 developing natural gas standards for almost a decade, is

1 taking over this function and has begun the process of  
2 revising OASIS standards to meet industry business needs.

3 G-3 is a Draft Final Rule incorporating, by  
4 reference, the most recent business practices developed by  
5 NAESB's Wholesale Gas Quadrant.

6 The standards include Version 1.7 of NAESB  
7 Business Practice Standards and standardized posting  
8 requirements for both gas quality reporting and Order No.  
9 2004 affiliate standards.

10 Any questions?

11 CHAIRMAN WOOD: How would you characterize the  
12 level of detail that both sets of standards go into?

13 MR. ROSENBERG: They go into quite a bit of  
14 detail.

15 CHAIRMAN WOOD: I would just say that since I was  
16 here the last time, I've been a big fan of this group and  
17 their predecessor group GISB, because, god knows, we're not  
18 good at the detail, and the people that have to live and die  
19 by this in the commercial marketplace, are those people, and  
20 they've found a process by which they can corral all of  
21 those different interests together and come up with an ANSI-  
22 certified process to get these done.

23 I'm glad to see us moving this way on the  
24 electric side for the first time, which why I wanted to call  
25 attention to it today, because we're following in a track

1 that has worked very well in the gas industry, which is now  
2 in Version 1 - point?

3 MR. ROSENBERG: Seven.

4 CHAIRMAN WOOD: Seven, so we've done this quite a  
5 few years now.

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1                   We've done it quite a few times on the  
2                   electricity side, so I'd say it's been really fun to watch  
3                   this organization evolve, a voluntary organization evolve  
4                   over the last 15 years of my career and I'm pleased that we  
5                   have a package here today that could potentially, if the  
6                   Commission adopts it on final rule, move forward with some  
7                   type of standardized approach in the electric industry.

8                   COMMISSIONER KELLIHER: The Commission issued an  
9                   Advance Notice of Proposed Rulemaking on OASIS II in July of  
10                  2000. Does this obviate the need to move forward on that or  
11                  these are different issues?

12                  MR. ROSENBERG: These are different issues.

13                  COMMISSIONER KELLIHER: Okay. Thank you very  
14                  much.

15                  CHAIRMAN WOOD: Nora, you're first.

16                  COMMISSIONER BROWNELL: Aye.

17                  COMMISSIONER KELLIHER: Aye.

18                  COMMISSIONER KELLY: Aye.

19                  CHAIRMAN WOOD: Aye.

20                  Thank you all.

21                  SECRETARY SALAS: Next for discussion is E-7,  
22                  International Transmission Company. It's a presentation by  
23                  Elizabeth Rylander and Phil Nicholson.

24                  MS. RYLANDER: Good afternoon, Chairman Wood and  
25                  Commissioners. The transaction addressed in this filing

1 involves a public offering of, eventually, all of the common  
2 stock of ITC Holdings Corporation, or ITC.

3 ITC wholly owns International Transmission  
4 Company, an independent transmission company within the  
5 Midwest ISO. Applicants state that access to the stock  
6 market to raise additional investment capital will allow ITC  
7 to repay some of its outstanding debt and will enhance ITC's  
8 ability to provide International Transmission Company with  
9 funds to invest in and improve transmission infrastructure.  
10 The transaction represents an indirect disposition of  
11 jurisdictional assets that requires Commission authorization  
12 under Section 203 of the Federal Power Act.

13 Applicants also request that the Commission  
14 confirm that, under this new ownership structure,  
15 International Transmission Company will remain independent  
16 of market participants as defined in Order Number 2000. The  
17 draft order would confirm that International Transmission  
18 Company will continue to be independent of market  
19 participants and grant Section 203 authorization for the  
20 transaction. The draft order would approve applicant's  
21 proposal to limit the acquisition of ITC shares by any  
22 market participant to less than 5 percent in order to  
23 address concerns that any market participant could exercise  
24 control of International Transmission Company and compromise  
25 its independent. The draft order also would approve

1 applicant's proposal to allow ITC to redeem shares to the  
2 extent necessary to bring a market participant's holdings  
3 below 5 percent. Finally, in connection with these  
4 conditions, the draft order would impose certain reporting  
5 requirements on ITC.

6 Thank you.

7 CHAIRMAN WOOD: Thank you, Elizabeth.

8 COMMISSIONER BROWNELL: Thank you for the quick  
9 turnaround on this. I think this represents an enormous  
10 step forward in the vision the Commission has expressed to  
11 have business models whose sole focus is the transmission  
12 business and it, I think in a very real way, given the  
13 performance that we've seen so far, directly aligns the  
14 economic interest of the company with the economic and  
15 reliability interest of the customers.

16 A business model that is incented to leverage  
17 this asset in an appropriate way, which is to bring value to  
18 the system, reliability to the system, I think really gets  
19 you to a market-driven system. And given the statistics  
20 we've seen from this company and other independent  
21 transmission companies, the level of investment increases,  
22 the level of new of efficiency increases, the options for  
23 customers increase, the quality of service improves, so I  
24 think this really is what the Commission and others have  
25 envisioned in introducing competitive models.

1                   And we look forward to a time and we've been  
2 working, I think, to make sure that we have the right  
3 policies in place to encourage the kinds of business models  
4 that we see bring value to the marketplace. So we've all  
5 been working pretty hard, but this is I think a really  
6 important day. So congratulations to the team and keep up  
7 the good work, we're going to be watching closely those  
8 investment levels and quality of service. And thank you  
9 very much for bringing this forward quickly so that this can  
10 get expedited.

11                   COMMISSIONER KELLY: The anticipated public  
12 offerings are a significant development in and a validation  
13 of the Independent Transmission Company business model. I  
14 think there's no doubt about that. I'm pleased to be a  
15 member of the Commission that is working to support that. I  
16 believe, as Nora has stated, that independent transmission  
17 companies can bring and have brought many benefits to  
18 transmission customers in their regions.

19                   They are a different business model; obviously  
20 not the only business model and certainly not the  
21 traditional business model for getting transmission built.  
22 They have some advantages over existing ones and some  
23 disadvantages. The advantages include the fact that they  
24 have no internal competition for capital as between  
25 generation and transmission so they have every incentive to

1 invest in transmission and that's something that all sides  
2 agree is sorely needed today.

3 They also can easily achieve revenue certainty  
4 with one stop shopping at FERC, because they don't serve  
5 bundled retail load, they don't have to -- the added  
6 uncertainty of revenue recovery through the state regulatory  
7 process.

8 So I support this order. I believe that we have  
9 taken care of concerns that the ITC's will remain  
10 independent primarily by having a 5 percent ownership  
11 threshold for market participants, no voting rights beyond 5  
12 percent, and the right to redeem stock above 5 percent. And  
13 I think this should permit ITC to raise more capital to  
14 invest in the transmission grid and that's clearly to the  
15 public good.

16 COMMISSIONER KELLIHER: As Staff indicated, the  
17 order grants Section 203 authorization for the transaction  
18 and confirms that ITC will continue to be independent of  
19 market participants, and the proposal is consistent with the  
20 merger policy statement and I support the order.

21 I do think the Commission has to revisit its  
22 policy with respect to independence of transcos. We've  
23 already seen that the current transcos, ITC, ATC and others,  
24 are a proven vehicle for securing investment in  
25 transmission. The conference the Commission held last month

1 pointed to the very high levels of investment by both ITC  
2 and ATC. ITC, of course, is an independent transco; ATC is  
3 an affiliated transco. Nonetheless, they're both securing  
4 substantial investments.

5 Now even though the current transcos have been  
6 investing a lot in transmission, they do still have a small  
7 footprint, and expansion of the current transcos has proved  
8 difficult. I think if the Commission wants to see large  
9 transcos established, it probably will have to revisit its  
10 policy on independence, otherwise transcos can only expand  
11 through cash acquisitions system by system and, of course,  
12 by investing in their current footprint.

13 So I do support the order but I do think it  
14 suggests a need for a possible policy change. Thank you.

15 CHAIRMAN WOOD: Ate that one up.

16 The thin ladies have sung and the thin man has  
17 sung, so I'm ready to join the orchestra and vote for it.

18 SECRETARY SALAS: Aye and hallelujah.

19 COMMISSIONER KELLIHER: Aye.

20 COMMISSIONER BROWNELL: Aye.

21 COMMISSIONER KELLY: Aye.

22 CHAIRMAN WOOD: Aye.

23 SECRETARY SALAS: And finally on the discussion  
24 agenda we have a joint presentation of G-2, Inquiry  
25 Regarding Income Tax Allowances, and E-56, Transelect Entity

1 Path 15 LLC. It's a presentation by John Robinson and Heidi  
2 Gruner, also Andy Lyon and Edward Ristway.

3 MR. ROBINSON: Mr. Chairman and Commissioners,  
4 I'm John Robinson and I'm presenting Draft Order G-2, Policy  
5 Statement on Income Tax Allowances. Draft Order G-2  
6 addresses the July 24th, 2004 remand by the Court of Appeals  
7 for the D.C. Circuit in BP West Coast Products v. FERC. The  
8 Court concluded that the Commission's prior Lakehead orders  
9 did not adequately justify why a partnership should receive  
10 an income tax allowance in proportion to the partnership  
11 interest held by a corporation but no income tax allowance  
12 in proportion to those interests held by individuals.

13 The Court's opinion was based on the Commission's  
14 assumption in Lakehead that partnerships do not pay income  
15 taxes. Based on the record in this proceeding, the draft  
16 order concludes that a tax allowance should be allowed for  
17 all entities, including partnerships and limited liability  
18 corporations generating public utility income, provided  
19 there is an actual or potential income tax liability on that  
20 public utility income. Thus, if a partnership meets the  
21 standard, the operating entity would be permitted an income  
22 tax allowance in proportion to the partnership interests  
23 that have an actual potential income tax liability.

24 The draft order also concludes that income taxes  
25 are a cost of the partnerships operations that are paid by

1 the partners. Because partners normally have an actual or  
2 potential income tax allowance based on the partnership  
3 utility income, the draft order concludes the assumption in  
4 Lakehead that partnerships have only phantom income taxes  
5 was incorrect. Thus, partners and pass-through entities  
6 would be granted an income tax allowance if the holders of  
7 such interest have an actual potential income tax liability.  
8 Whether such an income tax liability exists would be decided  
9 in individual rate proceedings.

10 Heidi Gruner to my right will now present the  
11 related item, E-56.

12 MS. GRUNER: Good afternoon. In an order issued  
13 on December 2nd, 2004, the Commission allowed Transelect  
14 Entity Path 15 to include in its transmission revenue  
15 requirement an income tax allowance associated with its  
16 return on common equity for the first three years of  
17 operation. However, the Commission made the income tax  
18 allowance subject to refund and subject to the outcome of  
19 the generic proceeding established in Docket Number PL05-5.

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1                   This is just describing G-2. E-6 is a draft  
2 Order that denies the request for rehearing of the  
3 Commission's acceptance of the income tax allowance. The  
4 draft Order also directs TransElec, NDT Path 15 to make a  
5 compliance filing demonstrating that it meets the standards  
6 set forth in Docket No. PL-5-5. Thank you.

7                   CHAIRMAN WOOD: I want to thank you both. I  
8 think this is certainly a big issue for the Commission,  
9 that, as we have found out from, wisely, I think, doing the  
10 policy statement, has implications across all of regulated  
11 industries, not just the oil that it started from, but gas  
12 and electric as well.

13                   And it curious; I started my career as a  
14 Commissioner ten years ago with the phantom tax issue. It  
15 was so, so hot in Texas that it was on the front page of all  
16 the papers, and explained as phantom taxes, in a pretty,  
17 quite frankly, difficult-to-defend way, but the Supreme  
18 Court kind of pulled us out of the mess down there.

19                   But this additional wrinkle on this issue, has  
20 made it even more difficult to kind of pierce through the  
21 rhetoric and get to the real substance here. I want to just  
22 thank you for allowing that to happen in this document.

23                   I think it really does kind of, in a balanced and  
24 fair way, restate what I think the Commission has been  
25 trying to do for the last couple of decades here with this

1 particular issue, and, I think, actually got it right this  
2 time, and instead of trying to parse it, as we did in  
3 Lakehead, going back to a method that says we're really  
4 going to look at what the actual tax obligations would be or  
5 are, or both, for the different owners of these types of  
6 operations, partnerships.

7 I think it was necessary to clarify that, and I  
8 look forward to, I think, in the subsequent meetings or so,  
9 we're going to need to deal with the remand from which this  
10 arose. I expect we'll do the same application on a specific  
11 basis there, as we've been today in Heidi's case with the  
12 TransElec.

13 Now, the way the TransElec was left, Heidi, was  
14 that they will then come back and do what?

15 MS. GRUNER: A compliance filing to demonstrate  
16 that they meet the standards in G-2.

17 CHAIRMAN WOOD: Okay, great. Thank you all for  
18 the expedition and also for the time you took to listen to,  
19 I think, a lot of folks. We heard them, too. It was  
20 probably ten percent of what you heard, but folks on all  
21 sides of these issues, feel very strongly about it.

22 COMMISSIONER KELLY: Well, I am very pleased with  
23 the policy that we announced today, and I believe it is  
24 appropriate to permit an allowance for all partnership  
25 interests, or similar legal interests. Our decision has a

1 significant qualification, and that is that any pass-through  
2 entity seeking an income tax allowance in a specific rate  
3 proceeding, must establish that its partners or members,  
4 have an actual or potential income tax obligation.

5 Obviously, this is a case-by-case, factually-  
6 laden decision, and both EEI and Wisconsin Public Power have  
7 suggested that that issue be addressed in a case-by-case  
8 way, in individual rate proceedings, and we endorse their  
9 suggested approach.

10 Our policy statement clarifies one point that I'd  
11 like to amplify on today, and that is that this decision  
12 should not result in increased costs to public utility  
13 ratepayers, and, in fact, it may actually reduce costs,  
14 because the partnership or LLC has a lower weighted marginal  
15 tax rate, as well as fewer administrative expenses than the  
16 normal corporate ownership form.

17 I also believe that our policy statement today  
18 addresses the D.C. Circuit's concern, as expressed in the BP  
19 West Coast Products case. The record that was presented to  
20 us in the course of this proceeding, suggests that there is  
21 a substantial amount of existing investment at issue today  
22 and in this proceeding.

23 For example, although we don't have specific  
24 dollar amounts, Duke Energy Corporation testified that 75  
25 percent of the \$14.4 billion in energy infrastructure

1 invested for the years 2001 through 2003, is held in pass-  
2 through entities.

3 The Coalition of Publicly-Traded Partnerships has  
4 told us that there are currently 20 publicly-traded  
5 partnerships trading on major exchanges, which own and  
6 operate oil and gas pipelines, and that market  
7 capitalization of publicly-traded partnerships was \$47.3  
8 billion in 2004, and the publicly-traded partnerships owning  
9 and operating energy pipelines, have market capital of \$38.5  
10 billion.

11 Thus, we heard that the concern that disallowance  
12 of income tax costs in rates for partnerships, would chill  
13 much needed investment in additional infrastructure, and I  
14 trust that our decision today will create a thaw and give  
15 parties the confidence that they need to continue to invest  
16 in these projects, which this country needs.

17 CHAIRMAN WOOD: As long as you --

18 MR. BRUNER: As the Staff indicated, the BP West  
19 Coast decision raised a lot of regulatory uncertainty  
20 regarding the Commission's policy in this area, and as the  
21 Chairman noted, partnerships and pass-through entities are  
22 used to finance the whole spectrum of the facilities under  
23 our purview.

24 So, there was a need for the Commission to  
25 clarify its policy, and I think the approach that we took

1 was correct. We issued a Notice of Inquiry, got very  
2 significant public comments from cross sections of the  
3 various industries, and carefully reviewed the comments.

4 And this policy statement, which I think will be  
5 unanimous -- we'll find out in a moment -- does represent  
6 the Commission's hopefully unanimous view. And I believe  
7 the policy is legally sound, and have no doubt we will find  
8 out.

9 (Laughter.)

10 COMMISSIONER KELLIHER: But I support the Orders.

11 COMMISSIONER BROWNELL: Aye. I'm sure we'll find  
12 out in the affirmative, Joe.

13 COMMISSIONER KELLIHER: Aye.

14 COMMISSIONER KELLY: Aye.

15 CHAIRMAN WOOD: Aye.

16 All right, meeting is adjourned. Thank you all.

17 (Whereupon, at 1:45 p.m., the open session was  
18 concluded.)

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