

BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION

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Conference :

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The above-entitled matter came on for
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1 Federal Energy Regulatory Commission

2 Southeast Energy Infrastructure Conference

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22 Samuel James "Jimmy" Ervin, IV, Commissioner,
23 North Carolina Utilities Commission

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25

1 MS. BROWNELL: Good morning. Extra brownie
2 points for all of you who've gotten up so early to be here.
3 On behalf of our Chairman, Pat Wood, who will be coming in
4 shortly, and my colleagues, we thank you for allowing us to
5 visit the southeast and for joining us in discussing
6 infrastructure and the issues around it.

7 We believe at the FERC that it is critically
8 important that we all focus along with our state colleagues
9 on the growth and critical infrastructure needs of this
10 country. It's the very backbone of the economic development
11 that we have all enjoyed in the past ten years. But it's
12 been a very neglected part of our economy. And we're
13 beginning to see in many subtle and some not so subtle ways
14 the impact of the lack of a commitment and a clean and clear
15 policy that will encourage investment in infrastructure.

16 So, today is an effort to analyze what's
17 happening and what's not happening, to hear from industry
18 participants about how they intend to manage through the
19 short term and the long term, to hear from the financial
20 community about what their expectations and needs are before
21 they will direct capital towards the development of
22 infrastructure and the new technologies that are the answer
23 to optimizing the systems that we have and to answer a lot
24 of the environmental issues with which we've been
25 struggling.

1 So, we hope to have a discussion. We hope to
2 identify public policy barriers either at the federal or the
3 state level that we can work on that will eliminate some of
4 the challenges that people have faced in getting
5 infrastructure built. We hope to hear new ideas about how
6 we can work together. I'd like to thank my colleagues at
7 the State Commissions. I think this is the best turnout
8 we've ever had.

9 We have enjoyed a very strong working
10 relationship, a relationship that I think is getting
11 stronger every day. These are not easy issues. On one hand
12 we have intrusions in people's lives when we want to build
13 infrastructure. On the other hand we have the growing cost
14 of constraints and congestion. And in areas like your's,
15 which have enjoyed wonderful growth, we cannot continue to
16 sustain that without dealing with these issues.

17 So, they're not easy. They're very complex. But
18 I'm delighted to be working with our colleagues in the
19 states who share the commitment of addressing these issues.
20 So, thank you for coming. I think it's going to be an
21 exciting day. We want active participation from our state
22 representatives, both of the Commission, Governor's Office
23 and State Representative level. So, we hope you'll be
24 asking a lot of questions and joining us as well.

25 And now I'd like to turn it over to my

1 colleagues, Bill Massey and Linda Breathitt, to hear their
2 comments.

3 MR. MASSEY: Good morning. I think Nora's done a
4 very good job a teaming this up. I'm here to hear from you.
5 I'm glad to be here in sunny Florida. There's a lot of
6 importance business to discuss today and so without further
7 ado, I look forward to hearing your comments.

8 MS. BREATHITT: Good morning. It's my pleasure
9 to be here and to see so many people here for what I think
10 is a great turnout. This is the third of these that we've
11 had. We held one on November the 1st in Seattle, Washing
12 that was the first one that we had focusing on
13 infrastructure needs in the northwest. We had one and I
14 think it was January 31st, February 1st in New York City
15 focusing on the infrastructure in the northeast. This is
16 our third one and we'll have one more in the midwest since
17 I've been at the Commission we have certificated quit a lot
18 of pipeline infrastructure in the southeast and as we,
19 because the Commission doesn't approve the transmission
20 certificates to construct, we don't track the investment in
21 transmission but we're beginning to.

22 But I think there's been some transmission
23 investment in the southeast too. We hear about bottlenecks
24 and congestions in other parts of the country. I know
25 there's some in the southeast but you don't hear a lot of

1 bottlenecks and congestion. So I think that you've done a
2 pretty good job keeping up with the fast pace growth that
3 Nora talked about in her opening remarks in the southeast.
4 There's been a lot of explosion of growth in our area down
5 here.

6 So, I'm pleased that so many people have come,
7 especially lots of the state commissioners. And I too look
8 forward to hearing a focused discussion on this topic.

9 MR. MILES: Our next speaker will be Jeff Wright
10 from the Office of Energy Projects. He will give an
11 overview of current energy infrastructure. Jeff?

12 MR. WRIGHT: Thank you, Rick. Once again, my
13 name is Jeff Wright from the Office of Energy Projects. And
14 with me today is Scott Miller from our Office of Markets,
15 Tariffs and Rates. The purpose of our presentation is to
16 give you a snap shot view of the current energy
17 infrastructure in the southeast regarding electric, gas,
18 hydro as well as taking a short look at oil and coal.

19 Now, in defining the southeast for the purpose of
20 this conference, it consists of 11 states seen on the map.
21 I should note that this definition of the southeast excludes
22 states that are sometimes considered southeastern states
23 such as Kentucky and West Virginia.

24 But first let's take a quick look at some
25 statistics comparing the southeast and the entire U.S. Now,

1 this slide shows how the population, gross domestic product
2 and energy use grew in the U.S. and the southeast between
3 the years 1990 and 1999. Now, in every category you can see
4 the southeast has had greater growth in the U.S. over this
5 time period. Population has increased from about 70 to 81
6 million people. The GDP for the region has gone from about
7 1.4 trillion dollars to 2.6 trillion dollars. And energy
8 use has increased from about 29 quads to 34.4 quadrillion
9 PTU's.

10 Now, I'd like to turn the attention to electric
11 infrastructure in the southeast and Scott will present this
12 section.

13 MR. MILLER: Good morning. What you have before
14 you is a map depicting plants, projects that are under
15 development or actually in construction as opposed to the
16 plats map that was provided to you at the table, which,
17 which just demonstrates actual capacity that's already in
18 the ground.

19 One of the interesting things about this map is
20 that there is a, following a national trend, of course, this
21 is almost entirely natural gas fired generation and it tends
22 to be located along interstate gas pipelines. In other
23 words, away from load. And this is true even in places such
24 as Florida where the new generation is being built largely
25 in central Florida where the predominant load is along the

1 coast. The issue that this raises, of course, is whether or
2 not there's going to be sufficient electric transmission
3 capability to get this new capacity to the load.

4 This chart demonstrates the extreme growth that
5 Jeff was talking about in demand in the southeast. As you
6 can see, in 1990 to 2000 time frame that we're talking about
7 here, demand outstripped the, the growth in demand
8 outstripped the growth in capacity. And currently right now
9 we're, at the year 2000 we were almost at equilibrium
10 according to NERC, FRCC and CERT data. Kind of dangerous
11 state of affairs.

12 Now, projected this is the reserve, reserve
13 margin is projected to widen. However, as we have seen in
14 other parts of the country, you can't always count on the
15 capacity that's planned to go in. So this is something that
16 they're watching.

17 17

18 Southeast, this is a depiction of the southeast
19 generation capacity and growth. This is actually, you know,
20 the demonstrating name plate capacity between 1995 and 2000.
21 And, of course, there has been an increase but as we noted
22 before, it was not as rapid as the increase in demand. The
23 new capacity, while the southeast remains on the whole a
24 area that's dominated by coal and nuclear generation
25 production, the growth area was mostly, of course, the

1 natural gas.

2 Now, actual output has grown at a slightly faster
3 rate indicating that there was an effort made to get more
4 out of the power plants that existed than occurred, say, in
5 1995. So, the year 2000, more output from some of the same
6 plants than existed before. And most of this additional
7 output came from coal, power plants and to a certain extent,
8 natural gas. And this is predominantly in the new natural
9 gas. So, the coal plants appeared to be running harder and
10 more, which could possibly raise environmental issues.

11 Turning to congestion, congestion is somewhat of
12 a problematic discussion with regard to the southeast
13 because there is not recorded to be an awful lot of
14 congestion. Nevertheless, when merchant generation is
15 attempting to get transmission capacity through the
16 southeast, they've experienced more difficulties. We've
17 heard more difficulties in the southeast than we've heard in
18 the rest of the country.

19 One of the reasons that we don't hear about so
20 much of the congestion and the price effects is because of
21 the nature of the electric market in the southeast United
22 States where there is a dominance of large vertically
23 integrated utilities, which tend to manage the congestion
24 internally. And so therefore, you don't, you don't know or
25 hear the price effects of congestion.

1 However, based on data that we have available on
2 TRO NERC data and the Department of Energy data, we do know
3 that there is a significant amount of congestion here in the
4 energy area into and out of TVA at the Florida boarder,
5 Varcar, going south and north south in central Florida.
6 There's also, tends to be a constraint between Tampa and
7 Orlando. There is congestion, of course, at these points in
8 Texas. But of course, Texas runs in ISO. That is managed
9 through a congestion management re-dispatch system. And
10 there are price signals for that system.

11 Turning to proposed transmission projects, there
12 are a number of proposed upgrades in the transmission
13 system, a number of larger ones in Texas. The ones in the
14 rest of the southeast tend to be a small mileage, tending to
15 be, to solve localized congestion and not necessarily
16 designed to deal with the bottlenecks sort of at the border
17 that we were, that we'd been seeing in the southeast.

18 In summary, with regard to the infrastructure of
19 the electricity in the southeast, as we pointed out the
20 growth is almost entirely in natural gas. This is no
21 different than the rest of the nation. However, here of the
22 four, the growth has not kept pace with demand and this is
23 something that bears watching, going forward as well as how
24 investment is made in this region going forward.

25 The generation tends to be concentrated near gas

1 pipelines which raises issues of getting the actual
2 electricity to load and whether or not there is going to be
3 enough invested in the electric transmission system to
4 accommodate this new generation which is intended to
5 accommodate the new demands for the southeast.

6 And with that, I'll think we'll move on to gas
7 infrastructure and turn it back over to Jeff.

8 MR. WRIGHT: Now, taking a look at the gas
9 infrastructure in the southeast, as you can see, gas
10 consumption in the four sectors depicted here increased by
11 nine percent between 1990 and 2000 from about 6 and-a-half
12 TCF to just over seven TCF.

13 Southeast gas consumption was 31 percent of total
14 U.S. consumption of approximately 22.8 TCF in the year 2000.
15 Residential and commercial consumption of gas was relatively
16 flat during this period. And industrial consumption of gas
17 declined during this period, meaning basically that the
18 growth in the southeast gas consumption was due to growth
19 and electric generation load. Electric generation load
20 increased by about 93 percent over this time increasing its
21 total share of natural gas consumption in the southeast to
22 about 43 percent.

23 Now, this slide shows how the southeast backs up
24 against the entire U.S. in the area of natural gas. As you
25 can see, in the year 2000, the southeast accounted for about

1 61 percent of the nation's dry gas production of 19 TCF. Of
2 the region's total production, 4.3 TCF came from offshore
3 gulf sources, five TCF came from Texas and about one and-a-
4 half TCF came from Louisiana. About 48 percent of total
5 U.S. crude reserves of 177.4 TCF are in the southeast. And
6 of this amount, 26 TCF are from the offshore gulf.

7 Now, there are deferent economic impacts from
8 offshore versus on shore gas development and production that
9 result in significant investment in offshore infrastructure.
10 And that will have to be made to bring those increasingly
11 deep water reserves to the market. In addition, there is
12 imported gas to the southeast which comes in the form of LNG
13 from several countries at two terminals in the southeast;
14 Elba Island, Georgia and Lake Charles, Louisiana. And in
15 the year 2000 this total about 130 BCF.

16 This slide is a simplistic view of the gas
17 balance between sources and uses in the year 2000. Now the
18 sources projection and the LNG import total approximately
19 11.7 TCF. And the uses of the gas in the southeast include
20 consumption of seven TCF, a small amount of exports plus
21 flows to the midwest, northeast and the southwest.

22 In the southeast there are 25 major U.S.
23 pipelines that traverse the market and serve not only the
24 southeast market but also other U.S. regions. It is
25 important to note that most of this growth in pipeline

1 capacity is to serve gas fired power plants.

2 In looking at the major pipeline projects in the
3 southeast, there are six major projects depicted here by the
4 red arrows. Now they're pending before the Commission. The
5 projected total capacity of over three BCF per day. With
6 the exception of one project, pending projects would
7 increase capacity within the southeast region chiefly to
8 supply gas for electric generation. And the other project
9 would export gas to Mexico for the purpose of electric
10 generation in northern Mexico.

11 In addition, as depicted by the blue arrow, we
12 have heard of another seven major projects that could be
13 filed with the Commission in the near future with the
14 capacity of over 4.3 BCF per day. And again, as we've heard
15 these projects would be primarily to serve increased
16 capacity in the southeast region to provide gas for electric
17 generation.

18 Also, I'll note that there are numerous reports
19 on potential LMG terminals in the southeast. In fact, if
20 they were all built would have the capacity for over two TCF
21 per day. And I will mention that in the very near future, a
22 project that has been approved and is in the final stages of
23 construction, Gulf Stream will be coming into Florida soon.

24 Now, in characterizing the gas infrastructure,
25 electric generation, as Scott said, is a driving force

1 between recent infrastructure additions as well as future
2 additions. And current and future gas production in the
3 region will require significant investment in
4 infrastructure, especially on the offshore supplies.

5 Now, taking a quick look at hydroelectric. One
6 and-a-half percent of the southeast generation output was
7 fueled by hydro in the year 2000 or about 20 million
8 megawatts. In 2001, the total generating capacity was
9 20,526 megawatts. Now, the FERC regulated generation was
10 approximately 14,300 megawatts. TVA generation was about
11 5,000 megawatts and other municipal generation totalled
12 about 1200 megawatts. Now, this production is down
13 significantly for 1998 due to drought that's cut production
14 by about 40 percent.

15 Taking a quick look at oil, here we see that
16 southeast fuel oil consumption by sector and, again,
17 electric generation use of fuel oil constitutes a large
18 percentage of fuel oil use. Over 50 percent of the
19 consumption in the southeast was for electric generation.
20 In the year 2000, the southeast consumed almost 28 percent
21 of all fuel oil in the U.S. And the southeast accounted for
22 56 percent of U.S. electric utility sector consumption of
23 fuel oil.

24 Now, four and-a-half percent of the southeast
25 generation output was fueled by fuel oil in the year 2000,

1 about 59 million megawatt hours. Electric utilities are the
2 largest users of residual fuel oil, Number 5 and Number 6 in
3 the southeast and Texas. And over the past six years, fuel
4 oil consumption by electric utilities increased by about 130
5 percent due to increased use of fuel oil by electric
6 generators, particular in Florida. And in Florida we see a
7 lot of generations coming from dual fuel power plants using
8 fuel oil as an economic swing fuel.

9 In concluding the oil section, we note that 47
10 percent of the total U.S. refinery in capacity, refinery
11 capacity is in the southeast and Texas. And the majority of
12 the nation's oil and product pipelines originate in the
13 southeast and Texas.

14 And last, but not least, we'll take a quick look
15 at coal. Now, Texas and Virginia, and to a lesser extent
16 Alabama, are the primary coal and lignite producing states
17 in the southeast. And coal and lignite production in the
18 southeast total about 109 million short tons or about ten
19 percent of U.S. production. The southeast coal and lignite
20 consumption increased just very slightly in the last five
21 years.

22 So, in the year 2000, 54 percent of all southeast
23 electric generation was coal fired. 91 percent of the coal
24 consumption in the southeast between '95 and 2000 was by
25 electric utilities. In 2000, 37 percent of all Texas

1 electric generation was coal and ignite fired. And 95
2 percent of all coal and ignite consumed in Texas between '95
3 and 2000 was by electric utilities.

4 Well, that concludes our presentation on the
5 infrastructure portion of our program. Scott and I would be
6 glad to take some questions.

7 MS. BROWNELL: If we could go back to Page 9 or
8 the slide on transmission constraints in the southeast and
9 Texas. I just want to be sure that I understand it. Lots
10 of arrows. I'm not quite sure I understand them all.

11 Let me just say. I think, Scott, what you said,
12 and correct me if I'm wrong, is that we are aware of these
13 almost antidotally. That this is information that we have
14 gathered but that in a northeast ISO or in ERCOT would be
15 clearer but we just don't have the transparency in this
16 market. That's the first thing, I think you said. But then
17 the second question I just want to be clear about is that in
18 ERCOT or where there's congestion management system, there
19 is more transparency in terms of the actual cost. So buying
20 decisions can be made by customers and price signals can be
21 seen. Is that what you're saying here?

22 MR. MILLER: Yes, that is the case. What we have
23 and in the southeast is a situation whereby we hear about
24 the congestion because of the situation where we have hot
25 line complaints from people trying to access transmission.

1 And they say that they're, they keep seeing zero ATC, zero
2 ATC. And then suddenly an affiliate is alleged to have
3 gotten it.

4 And yet you don't see much in the way of reported
5 congestion. We do know that FRCC did a report on congestion
6 inside Florida. But that was, you know, that's an internal
7 document. And the difficulty with this is it does not allow
8 for those who are trying to make investments to know where
9 it's optimally, you know, the location is optimally to be
10 made.

11 MS. BROWNELL: Have we seen any difference; I
12 know the ERCOT has only been up and running for a short
13 period of time, but have we had any customer feedback or
14 seen any greater efficiencies because that information is
15 now transparent and available to all of the market
16 participants?

17 MR. MILLER: Well, the market has only been
18 running a short time in ERCOT. But in the absence of a
19 market, what the Texas Commission did was it made it quite
20 apparent through the ISO, which has been operating for some
21 period of time, where the places were that were most
22 beneficial to the system and where it was likely to be of
23 most value for an investment. And since then the; and
24 they've had a robust build there. Since then, we've noted
25 that the additional generation that's going on in a limited

1 time period that we've seen has tended to go in areas that
2 demonstrate, you know, congestion. They see a higher price
3 and therefore they know that that's where they should be
4 located.

5 MS. BROWNELL: Thank you.

6 MR. MILES: Any other questions? Yes. Just hold
7 on about five seconds. We have a microphone for you.

8 MS. BROWNELL: And if everyone could identify
9 themselves as they ask the question.

10 MR. MILES: Yes. And also could I ask you, as we
11 did in Seattle and New York, could you put your cell phones
12 on vibration, if you don't mind? Thank you.

13 MR. HOLLAND: Thank you. Ed Holland with the
14 Southern Company. Scott, could you help me reconcile the
15 graph on Page 6 and the table on Page 7? One shows in, I
16 think, 2001 capacity of about 200,000 megawatts and the
17 graph on page or table on Page 7 shows close to 300,000.
18 And I'm not sure Texas is included but I don't know what
19 else might not be included on the Table on Page 6.

20 MR. MILLER: Well, there are two different ones.
21 One is actual name plate capacity and the other is
22 generation output in gigawatt hours. So they're, you know,
23 they're, you know, one's the actual, how many plants, how
24 many megawatts are in the ground and the other is how many
25 gegawatt hours, if I'm looking correctly at --

1 MR. HOLLAND: They both show megawatts.

2 MR. MILLER: Six and seven?

3 MR. HOLLAND: Yes. Oh, I'm sorry, you were
4 looking at the capacity and demand situation. Yeah, the,
5 what we're using here is SERC and FRCC. And it excludes
6 Texas on 6, where 7 is taken from RDI Power Data, a
7 different data source, and it does include Texas.

8 MR. MILLER: Does Texas have 100,000 megawatts of
9 capacity?

10 MR. HOLLAND: We were using different data
11 sources because we couldn't come up with the, Argia Power
12 Data has more up to date data. And that's why, in terms of
13 trying to demonstrate what is in the ground in 2001, we used
14 a different data set.

15 MR. MILES: There's a gentleman over here from
16 Texas.

17 MR. NOEL: I'm Tom Noel. I'm CEO of ERCOT and
18 I'm representing Commissioner Klein here today and I'm sorry
19 I, we snarled up on our registration. So, I'm here
20 anonymously.

21 I did want to just address a couple of quick
22 questions. A short answer within ERCOT itself. There are
23 about 73,000 megawatts of power. And that is up, well, to
24 give you a perspective, the highest peak usage we've
25 experienced was in the year 2000 and that was just under

1 58,000 megawatts, just to give you a perspective as to where
2 we are.

3 With respect to transmission, the ISO is
4 responsible for transmission and planning within Texas for
5 the entire state. All of our schedules flow and there's
6 open access. So, it is a very transparent system. And I
7 think it's fair to say that we have continued to attract
8 investment in transmission in Texas for that reason. We at
9 ERCOT are responsible for producing an annual report October
10 1st of each year which identifies all of the constraints
11 known in the state.

12 When we open the market, and as someone pointed
13 out, we've been on the wholesale market since '95, '96. We
14 opened our retail market on the 1st of January this year.
15 But the planning process is currently handled through three
16 regional planning groups that are led by or facilitated,
17 shall I say, by ERCOT.

18 So, fundamentally, we are very much an open book.
19 We have continued to attract transmission development both
20 by the existing or formally bundled utilities. But we have
21 also, one of our challenges right now is our wind power is
22 in west Texas and the power is needed in central Texas. So,
23 we are actively working on a model now where in this
24 particular case, AP would be the logical provider of those
25 transmission resources but they are, at least on that

1 instance, want to spend their money elsewhere.

2 So, LCRA, which is a utility district, is
3 actually going to build and operate that line under contract
4 with AP. So, we have not only the traditional direct
5 investment by utilities in transmission but also we're
6 seeing an innovative approach such as the one I just
7 suggested. So, we do believe and the Commission believes
8 that this transparency is a very positive thing, to respond
9 to your question, Commissioner.

10 MS. BROWNELL: Thank you.

11 MR. MILES: Gentleman over there?

12 MR. WILEY: Yes, I'm Ken Wiley. I'm the
13 President of the Florida Reliability Coordinating Council.
14 And I wanted to make a couple of comments about Scott's
15 presentation on Slide No. 9, showing the transmission
16 constraints. One of the comments was concerning the
17 transmission line or leaf calls and I wanted to indicate
18 that over the past approximately three years that on the
19 eastern interconnection, there's been about 1,800 plus TLR's
20 called. Florida called two in that same time period. And
21 that was back, I believe, in the first year. And we have
22 not had any in the last two or three years. And so we don't
23 consider that we have had a real constraint problem to date
24 within Florida.

25 Regarding the interconnections at our northern

1 boundary, we have never had a TLR on those either. So, I
2 can't see that we've had transmission TLR problems on that.

3 Now, the other comments were made that we had
4 some internal type of problems, mainly from Tampa to
5 Orlando. And I guess I'm not really sure what, where that
6 information came from. I would appreciate if you could talk
7 with us and share that kind of information, Scott. But we
8 haven't seen that lately or in a long time, as a matter of
9 fact.

10 And the last one is, well, I guess that was the
11 last one. But I would like to welcome you, Scott, to come
12 talk with us about some of these things, especially
13 antidotal type of concerns that we have constraints that
14 limit the market because in our organization we have a
15 committee which we call the Market Interface Committee, very
16 similar to Newarks, where all the members that deal in the
17 wholesale market in Florida are encouraged to be members and
18 most of them are.

19 19

20 And even in that committee, I have not heard even
21 antidotal information that we have any serious concerns in
22 Florida. So, I would appreciate you sharing that kind of
23 information you have so that we can take a look at it.

24 MR. MILLER: We'd be happy to.

25 MR. MILES: Any other questions? If not, we'll

1 have our next speaker. Wait, Commissioner Massey?

2 MR. MASSEY: Yes, back to the Slide No. 9. And
3 the following page you indicate there are 30 projects
4 proposed to upgrade and expand transmission systems in the
5 southeast?

6 MR. MILLER: Yes.

7 MR. MASSEY: And when you say southeast you're
8 excluding Texas. The eight in Texas are over and above
9 that.

10 MR. MILLER: Yes.

11 MR. MASSEY: All right. What information do you
12 have about where these projects are? What particular
13 constraints are they attempting to alleviate? Are they in
14 Florida or are they elsewhere in the southeast?

15 MR. MILLER: There are some in Florida and there
16 are some elsewhere in the southeast. But they tend to be
17 low mileage ones and of a lower, not of the backbone
18 variety. They tend to be aimed more at localized congestion
19 and not some of the congestion that we have, we have heard
20 about on the borders.

21 MR. MASSEY: Is there anyone in the audience or
22 Scott from the State Commission maybe can tell me this. Is
23 there a problem importing power into Florida from elsewhere
24 in the southeast? Is that a major bottleneck? Are there
25 efforts to import power into Florida that do not occur

1 because of congestion or are sales deterred because of
2 congestion?

3 MARTY: I guess I can give that one a try and
4 then I'm going to maybe ask Bill or Andy to, see if they
5 have any concerns.

6 MR. MILES: Marty do you want to identify
7 yourself? Marty, do you want to tell everybody who you are?

8 MARTY: Marty -- Power and Light Company.

9 MR. MILES: Okay.

10 MARTY: I think this one's working better. If
11 you look at the State of Florida, there's a lot of ties and
12 there's four owners that own the transmission lines coming
13 into the State of Florida. And there's a couple of issues
14 there and it's not just a Florida issue. That we can take
15 in and we can import 3,600 megawatts and we also have quite
16 a bit of export capability. I mean, during the winter when
17 it's nice down here and there's no usage, we export a
18 tremendous amount of megawatts the other way. So, in
19 general when you're talking winter time and those type of
20 things, the power is going that way or we put it on hold.

21 When you talk about bringing power in and
22 constraints in the State of Florida, the State Florida we
23 have added transmission lines to get power out of Orlando,
24 between Orlando and Florida about three years ago or four
25 years ago. And the way our infrastructure is, we're pretty

1 solid in the State of Florida. To get more power into
2 Florida you have to come through Georgia. And right now, I
3 think that, let's just say that Florida says, okay, these
4 ties that we have with Georgia are worth 4,000. The issue
5 becomes the whole infrastructure of the southern Georgia
6 area is where you have problems when we start importing too
7 much power.

8 And what you're actually worry about is a lose of
9 a generator or a lose of a transmission line somewhere in
10 the State of Florida or in southern Georgia and having low
11 voltage problems which would lead to cascading outages and
12 other events. So, it's not as simple, in summary, really
13 it's not as simple, okay, here's a line, you know, it's a DC
14 line. And, gee, if we make it go up and put a DC line in,
15 for example, and we say, okay, we can bring another 1,000
16 megawatts at the border across the river.

17 Then Mr. Dearaman and Mr. Bill Newman are going
18 to say, gee, I can't get it through Atlanta or I; it's just
19 a whole infrastructure thing is what I'm trying to say.
20 Does that make sense? Bill, do you want to --

21 MR. MILLER: Anyone who would like to respond.

22 MARTY: What I'm trying to do is I'm trying to
23 get a little bit off of this, gee, it's a Florida Georgia
24 border problem. And maybe even if you talk real time, if
25 you go to an oasis system today, it's actually limited,

1 MR. MASSEY: Are any of the projects that are
2 planned for the southeast aimed at this area, at increasing
3 this capability of importing --

4 MR. NEWMAN: Many of the projects that are being
5 built today, in fact, they have to be every year. You
6 increase the amount of transmission that's within Georgia,
7 for instance, to maintain that interface capability because
8 it won't stay at 3,600 megawatts without some construction
9 or something.

10 If your question is are we looking to increase
11 the capacity another, pick a number, a thousand megawatts.
12 If there's a requirement for that in terms of contracts that
13 will pay for that, that's our obligation. And yes, we would
14 do that.

15 I ask another question. Who stepped up and said
16 I need another 1,000 megawatts that I will pay for and pay
17 for the expansion of the system? If you expand the system,
18 and it does require expansion within the State of Georgia
19 and it would require expansion in the State of Florida, who
20 is going to pay for that? Does it provide enough transfer
21 capability with the economics of that, a difference in short
22 run marginal cost, to pay for the line?

23 That's a bet somebody has to make. If economics
24 were there, then I would think that somebody would step up
25 and say, look, I'll be glad to pay for that. I think that's

1 the question that's left to be answered.

2 There was a comment made earlier about ATC. If
3 ATC is zero, is that a problem? Well, if ATC is zero for
4 eight or ten times a year and you were able to expand the
5 system so that there was some ATC, two or three hundred
6 megawatts, whatever that need was, will that pay for the
7 expansion of the transmission system? I'm not sure.

8 Another question to be asked. Is there a better
9 way to address that zero ATC and would it be gas? And I
10 think that's why we're here today to talk about the overall
11 energy situation and is gas delivery a better choice? I
12 think some areas have decided that it is. My numbers
13 indicate a two to three times factor above a electric
14 transmission to deliver power above that of a gas
15 transmission.

16 Your numbers may be a little different. They can
17 be debated on what assumptions you make. But our numbers
18 indicate at least twice as high a cost to transmit
19 electricity as gas. So, the congestion issue, and all
20 systems are congested. I mean, they are. Unless you want
21 to eliminate all congestion, it's almost an infinite price
22 and nobody wants to do that. The cost has to be taken into
23 account.

24 How many hours does the congestion exist? Is ATC
25 zero bad or does it recognize the value of those interfaces?

1 I think it recognizes the value of those interfaces. Now,
2 if your question is today is there a plan to add another
3 1,000, 2,000 megawatts to the transfer capability between
4 the southern system in Florida, there is not a firm plan to
5 do that. In the past we've looked at adding a third 500 KB
6 line. Motor Power Corp and Southern worked very hard on
7 that for several years. Had begun to obtain the right of
8 way. And there were policy reasons and public opposition
9 why that line was not completed, that third 500 KB line, my
10 guess, would have added probably 1,000 megawatts.

11 MR. MASSEY: Thank you for your comments. MR.

12 MILLER: Commissioner, there is one indicator that does
13 demonstrate that there is at least congestion some of the
14 time. And that is that in most, most of the, many, many
15 months of the year the price of power in Florida is
16 considerably higher than it is in the rest of SERC. The
17 difficulty is, and I think Mr. Newman pointed this out, is
18 an awful lot of this transfer capability is locked up in
19 long term obligations.

20 Currently there is no system to provide an
21 incentive for people to more optimally use the transmission
22 system. In other words, you know, give up some transfer
23 capability on a short term basis for some remuneration. And
24 so, therefore, it makes for, from a wholesale perspective in
25 an illiquid market in the southeast, and it could, and we

1 don't know the analysis on this, could be raising prices
2 higher than they need to be.

3 MR. MILES: Okay, let's move on to our next
4 speaker. Our next speaker is going to talk about attracting
5 capital for energy infrastructure. Our speaker is Douglas
6 Kimmelman. Each of you may have picked up a copy of the
7 blue booklet that is at the part of the room over here if
8 you haven't had a copy. But contained in that document are
9 bios of all of the speakers here today. But Mr. Kimmelman
10 is Chairman of Global Power. If you take a look at his bio,
11 you can see that he has many years of experience presenting
12 testimony and submission to a number of national and state
13 commissions. Also he has vast experience in transactions,
14 merger and privatizations.

15 MR. KIMMELMAN: Thank you very much. I
16 appreciate the opportunity to be with you today. And I
17 would like to talk about some of the ingredients to ensure
18 adequate infrastructure investment and what some of those
19 prerequisites might be to attract ample low cost capital.
20 And I'll stress ample and low cost because you may be able
21 to get the capital but if the rules are murky, the cost of
22 that capital may be so dramatically high that it wipes out
23 any of the benefits of competition and the like.

24 But let me, before I dig into that, really talk a
25 bit about where we are today because I really do believe

1 that this industry is on the verge of a crisis mode. I've
2 been involved for 18 years in raising capital for utilities;
3 investor owned and public power entities. And I have never
4 seen such lose of investor confidence in this sector that we
5 are facing today.

6 Investors are totally confused as to what are the
7 rules of the market and what are the rules, excuse me, on
8 how an investor in an utility will earn on an investment
9 dollar going forward. So, they're having trouble keeping up
10 and they seemingly are seeing one meltdown a week after
11 another, whether it's a merchant IPP company or even a
12 regulated utility. And they don't differentiate whether
13 it's California or whether it's another part of the country
14 or where we are here today in the southeast. They're
15 concerned across the board.

16 And I really think that that, you know, mind set
17 is really important to keep in mind when we start talking
18 about some of the issues here. Why would you want to buy
19 utility stock in this environment? Most utilities throw off
20 something like a five percent dividend. The core business
21 isn't growing much more than one or two percent. That
22 provides a total return of maybe six, seven, at best eight
23 percent. That's not a competitive return in the stock
24 market vis-a-vis other vehicles it's barely north of where,
25 what one can get on a treasury bond.

1 And the utilities look at this scenario as well.

2 And utilities, I think, would love to be able to put more
3 dollars to work into their own service territory and earn a
4 reasonable return to prop up that earnings growth rate. But
5 the history's been very difficult. This history's been very
6 difficult around the country. We've gone through periods
7 where utilities have built generation and they've been
8 denied significant dollars spent on that generation. And so
9 they've moved away from a period of wanting to build to them
10 moving to purchase power and signing contracts with others
11 or have others build it. And then they run into a situation
12 of massive denials. And we can just look this week and see
13 our Pacific out west with massive denials that is driving
14 that regulated utility close to bankruptcy.

15 Perhaps the answer might be for the utility to,
16 instead of building the generation or purchasing the power,
17 maybe they ought invest in their transmission infrastructure
18 to alleviate the need to build new generation. But there is
19 an area, as we're beginning to hear today, where the rules
20 are the least clear in terms of what market structure will
21 be. Utilities look at investment in transmission right now
22 and say, you know, we don't even know if we're going to be
23 allowed to own it in five years. We don't know if it will
24 be in our rate base. If it will be in an RTO, be in
25 alliance or whether or not we'll have to sell it. It's not

1 a real desire by utilities to put the money to work there.

2 And even in this region, I think because of that
3 dynamic, you're seeing many of the utilities in the
4 southeast to look elsewhere to put their investment dollar
5 to work. And I don't think it's a surprise when you see the
6 FPL's and Entergies and Texas utilities and you look at the
7 billions of dollars that they are committing to other
8 regions in the country and other regions of the world. And
9 I think that's a very telling sign in terms of some of the
10 concerns that they must have in terms of investing that
11 extra dollar that they have in their own service territory.

12 So, some background there. Let me try to talk a
13 little bit about maybe what can be done to provide some
14 clarity to investors. And let me talk about some things
15 maybe that the companies can do and some things that perhaps
16 regulators can do. And before I beat up on the regulators,
17 let me beat up on the companies a little bit to be fair.

18 And I think there are three things that I would
19 point out that they could focus on to restore investor
20 credibility. I think the first one has to do with their
21 balance sheets. This industry clearly in the last five
22 years has witnessed a major expansion in terms of business
23 risk. Utilities were capitalized in a much more stable
24 environment ten years ago. Well, that environment all over
25 the country, to varying degrees, has changed in terms of

1 increased volatility and business risk.

2 You know, even if the market is not fully open,
3 someone maybe contracting to buy power from a third power.
4 And that third power turn out to be an Enron or a Dinage and
5 you're left holding the bag. So there's business risk all
6 over the place in this industry. The industry, I think, got
7 a little laxed in the last five years in terms of how they
8 financed themselves. Balance sheets have a lot more debt
9 than equity. And I certainly believe, and I think investors
10 concur, that the financial structure of utilities are far
11 too risky given the level of business risk.

12 So, they need to get more equity in their
13 business. They need to shore up their balance sheet. You
14 know, just note in the past year, we've seen a decline in
15 wholesale spot power prices on average across the country
16 from their high of about 70 or 80 percent. And notice many
17 of the stocks exposed to those prices are down also, 70 to
18 80 percent. And if you're going to see that kind of
19 volatility in your business you obviously need a large
20 equity cushion.

21 And one of the fears of many companies, well, if
22 I raise the equity, if I can even find the investor to
23 invest, how are the regulators going to treat that? Do they
24 concur with me that there's more business risk? Are they
25 going to allow me to shore up the balance sheet? But I

1 think utilities need to focus on how they finance
2 themselves. Take that financial risk out of the business as
3 quickly as possible.

4 Second is transparency. Transparency of
5 financial statements, funding vehicles, risk management
6 strategies and counter party exposures. You know, I think
7 this has been area, post Enron and others, that is at the
8 top of mind for investors today. And the utilities need to
9 over kill in this area in terms of transparency.

10 Related to that would be a third, which I would
11 call planning by the spirit of the rules. And this is what
12 we're reading about in the paper this morning. In terms of
13 maintaining investor credibility by taking the high road and
14 not so called gaming the system as these market structures
15 around the country evolve in different ways. And I think
16 utilities really need to take all three of these areas very
17 seriously because they have lost investor confidence and
18 they can't necessarily just look to the outside world, to
19 regulators to restore it for them. I think they do have to
20 look a little within. And I would point to financial
21 structure, transparency and playing by the rules as three.

22 Let me then beat up on the regulators on the more
23 regulatory specific things that it perhaps could be talked
24 about or suggested. And I think the first would be what I
25 would call upholding the regulatory bargain. I think the

1 regulators need to make the rules and stick with them. I
2 think there's been several examples in recent years and
3 months of the strong tendency to reach back if the regulator
4 does not like the outcome that the market produces.

5 And I think this is an area where investors will
6 ruthlessly pull their capital out if they think there's a
7 tendency for the rules to change half way through the game.
8 And this has been a big problem of late. We can start with
9 some of the obvious ones. The denial of historic power
10 purchase. I'll go back to my friends out in Nevada as being
11 hit the hardest in the last couple of weeks of hundreds of
12 millions of dollars of denials of power purchased on behalf
13 of their customers. It's nearly wiping out the company.

14 And investors are concerned of where's the next
15 shoe to drop. And so they're actually looking at companies
16 and saying, who's got a lot of purchase power exposures?
17 Who's got a lot of deferrals on the balance sheet. And
18 maybe that's the one I want to stay away from because
19 perhaps there's going to be a large denial there because the
20 political will may not be there to pass through that high
21 amount.

22 Second area would be sanctity of contracts. You
23 know, reviewing contracts for termination if the market
24 moves against one of the counter parties. This is obviously
25 very topical in California. And you know, I think a lot of

1 utilities are going to hesitate into entering long term
2 contracts and I don't think investors are going to give them
3 credit for entering into low term contracts if there's a
4 fear there will be a second look by a third party if they
5 don't like the outcome.

6 Third would be proposals to force refunds if
7 trading and marketing activities if profits are deemed to be
8 excessive or if they deem to have resulted from market
9 anomalies. So, again it's the area of looking back and not
10 liking the results that the market produced.

11 And a last one might be a rate caps that limit
12 financial returns. And I think one really has to ask the
13 question of whether or not many regulators are ready for
14 electric deregulation. They certainly like the period of
15 low prices but does the political will exist for periods
16 when the prices inevitably move higher. Which clearly,
17 those periods are a necessary ingredient in a competitive
18 market to send the signals for new investment. And if one
19 is going to continually chop off the top, chop of those
20 periods, you're not going to get the needed infrastructure
21 investment. And perhaps this has to do with a little bit
22 patience and trust and not be very short term orientated and
23 reactive in those periods of price spikes, which is
24 absolutely going to choke off investment.

25 So, that's upholding the regulatory bargain.

1 Another area that regulators could focus on are providing
2 incentives for desired areas of spending. And maybe two
3 areas where spending in regions of the country may be
4 advantageous. One would be transmission. The other would
5 be generation. Obviously the two are closely related.

6 On the transmission side, incentive rate making
7 to attract capital infusion into system upgrades and to de-
8 bottlenecking and even towards new capital, for new owners
9 that have appropriated incentives to expand upon and make
10 more efficient systems. We certainly have seen one
11 independent company being responsive in this area,
12 Transelectric, which many of you know of this company, which
13 has stepped forward as an independent to both purchase
14 transmission and invest in development projects. And
15 perhaps this is an area where we need even more
16 encouragement and incentives for fresh capital, fresh
17 companies to come in and be the owners that have the
18 appropriated incentives to de-bottleneck the system around
19 the country.

20 Related to that one idea perhaps in the
21 generation side is the concept of capacity payments.
22 Investors are very comforted by that notion that there is
23 some small minimum return that will be there if they invest
24 in a project. It is incredibly difficult for a project
25 developer, generation plant project developer, to put a

1 dollar down today when that plant may not come on line for
2 three, four years. It's a reality that delays in terms of
3 the siting and the environment. We all know that.

4 But we're now dealt with incredible price
5 volatility so the developer has no idea. Even if the price
6 signal is high today, he doesn't know what the price signal
7 is going to be three years out. And we've seen it in many
8 markets where it really has encouraged investment to have a
9 minimum degree of capacity payment there so that he knows
10 that there's at least some small return that he can, he can
11 bank on. And I think that will help him in his raising
12 capital. So, those are some ideas in perhaps the incentive
13 area for regulators. Let me lastly, just a few unique
14 ideas to throw out that we've kicked around and then we'll
15 open it up for any discussion and questions. One anomaly
16 that we see out there with regards to electric transmission
17 is why does electric transmission not have many of the
18 advantages that gas transmission has in terms of the way
19 that it's financed itself. There's an anomaly that goes
20 back to the '86 Tax Act that gas pipelines are allowed to
21 put themselves in what's called a Master Limited Partnership
22 format where they are allowed to distribute pre-tax, a
23 stable pre-tax cash flows to investors and capitalize those.

24 I'd argue since '86, over half of the investment
25 in the gas pipeline area has been done through this very

1 efficient funding vehicle. It's an anomaly but electric
2 transmission is not allowed to finance itself that way. And
3 it's a serious cost disadvantage that electric transmission
4 faces versus gas. I don't think it was intended by anyone.
5 I think it was an oversight back in '86. But it may be a
6 way to spur a little more interest in capital formation in
7 transmission.

8 It might even spur utilities to be more open
9 minded towards perhaps divesting or spinning out their
10 transmission assets into an independent entity if there was
11 a efficient funding vehicle out there that has been done
12 with many pipelines. As you know, many of the large
13 pipeline companies have spun out their pipelines into these
14 separately owned Master Limited Partnership vehicles.

15 The second area is impediments to foreign capital
16 investment. It is a bit unique that the utility industry in
17 the United States is not only so fragmented but the largest
18 players here are much smaller than many of their foreign
19 counterparts. In other industries that we would look at,
20 you know, pharmaceutical industries, financial services
21 industries, the biggest players in the world are from the
22 United States and that's where we rely on most of the
23 capital.

24 But we have an anomaly here. The biggest players
25 in the utility industry are in Europe. Comes from some of

1 the roots of being, not too long ago, formerly large
2 government owned entities. There are serious restrictions
3 on foreign investment, mainly through PUHCA, the Public
4 Utility Holding Company Act, into the utility infrastructure
5 of this country.

6 And I think there probably is some fear that's
7 not much talked about of foreign ownership of utility
8 systems. And all I would say here is that the capital, the
9 cost of capital required by the foreign entities is much
10 lower than many U.S. counterparts. They just demand a lower
11 return. They have ample capital. They want to invest here.
12 And if one is concerned about foreign ownership, I think
13 clearly the opportunity to regulate their U.S. holdings is
14 quite evident and available. But it's the first step of
15 allowing them to invest that is somewhat blocked and I think
16 ought to be dealt with.

17 The last idea is just on the transmission side.
18 You know, I hear all the debate here and I just wonder why
19 we're not moving towards mandated divestiture by many
20 utilities of their transmission systems. Many of these
21 transmission systems, as you know, have been somewhat
22 largely depreciated. And on the face of it you would think
23 there would be a very large gain, a very large gain over
24 book value available if the utility were to divest its
25 transmission.

1 And maybe one of the ways to break the log jam
2 here is that very large gain could be distributed in two
3 ways. Number one, a portion of it could be used to restore
4 the financial health of many of the utilities, as I talked
5 about up front. They need to strengthen these balance
6 sheets. And maybe a portion of that could go back to the
7 customer to obviously, you know, help ease some of the
8 burden on where power prices have been moving.

9 But let me stop there with some of those ideas.
10 And I'll open it up. If there's any question, comment,
11 debate or criticism on any of those comments. Thank you.

12 MR. MILES: Any questions? Comments?

13 MS. BROWNELL: I have one.

14 MR. MILES: Yes.

15 MS. BROWNELL: Doug, if capital isn't coming into
16 the utility or the independent, wherever in the energy
17 sector, where is it going? Is it going overseas? Is it;
18 what's happening?

19 MR. KIMMELMAN: You know, the, it's been a
20 difficult time. Let me start with individual investors. If
21 we go back ten years, the foundation of investment in this
22 sector has been individuals that relied on the stability,
23 relied on the dividends of utilizes, many retired folks
24 relying on that fixed income. They have been forced to look
25 for alternative fixed income vehicles because it has been so

1 constituents to the industry --

2 MR. CALLAHAN: The electric; because --

3 MR. KIMMELMAN: -- because we can go investors,
4 customers --

5 MR. CALLAHAN: Yeah, because when you kind of
6 hammered on the regulators talking about, you know, setting
7 the rules, changing the rules, the sanctity of the
8 contracts, the refunds and the price caps, those are all
9 things that have happened in the deregulated markets across
10 the country. Not in the regulated markets. And I don't
11 think right now any one of these commissioners in the these
12 front two rows are contemplating going to deregulation here
13 in the south.

14 So, let's kind of narrow it down to the south so
15 with our regulated monopolies vertically integrated, how do
16 we stand, I mean, what's your take on the investor money in
17 that situation?

18 MR. KIMMELMAN: Sure. Well, let me, I don't have
19 an ax to grind in this debate so let me be very up front in
20 terms of what I look at. I look at a couple of things. I
21 look at deregulation of the gas markets, which has been now
22 mature for at least ten years. And I think it's pretty
23 obvious in terms of some of the benefits of the wholesale,
24 the opening of wholesale markets in competition and what
25 that has done in terms of consumer rates and efficiency that

1 that has driven into that sector. I think deregulation may
2 not be the only reason but I think it's the major reason
3 around that.

4 I also, I take that as a model and say, gee, how
5 come the electric industry can't be patient and peruse
6 somewhat of a similar model in some of the successes that
7 we've seen in gas. I also, let's go back and look at the
8 regulated world and we can look at the south. Let's look at
9 the price of electricity and let's look at how that price of
10 electricity has been in many jurisdiction. Let's look at
11 the massive cost overruns that we've seen at many of the
12 utilities in this region over the last ten years, perhaps
13 because there is not a lot of market discipline around these
14 companies.

15 Many utilities here who were of the mind set it
16 doesn't matter what I spend to upgrade my system. It
17 doesn't matter what I spend on the nuclear plant. It
18 doesn't matter when I build that substation, what it cost
19 because it's just a pass through. There is an absolute lack
20 of discipline that when we look at the end use cost of
21 electricity of the consumers around this country, it was all
22 over the map. And it was causing many regions of this
23 country and many regions in the south to frankly not be
24 competitive.

25 And that and a dissertation on why we started

1 talking about deregulation but it was those forces of
2 competition, efficiency and market discipline that were
3 introduced to try to bring some of that down, to have a
4 consistency and get the lowest possible cost. We're going
5 through growing pains, it's obvious, as that market --

6 MR. CALLAHAN: I'm not talking about lowest
7 possible cost for electricity. You moved the subject. I'm
8 talking about investor security and money. Now, you're
9 talking about investment in nuclear plants and all that kind
10 of stuff. I mean, in Mississippi, we're a great example.
11 We've got Grand Guff because billions and billions of
12 overruns and in an unregulated market would have bankrupted
13 the company. But in a regulated monopoly, it was past
14 through to the consumers, much to, it went all the way to
15 the Supreme Court in Mississippi. And, you know, that
16 passes through. The company keeps on going. They're here
17 today.

18 And I guess what I'm asking is, you know, when
19 you take this to deregulation and you get on the wholesale
20 market, there's going to be great risk. And investment
21 where there's great risk there has to be great reward. And
22 great reward in turn to there's got to be a higher rate of
23 return which is higher prices and higher rates. So, I mean,
24 to me it seems like it's kind of a choice between a home run
25 and a base hit and a single. With an integrated monopoly

1 it's our job to ensure you're going to get a single every
2 time.

3 MR. KIMMELMAN: Show me, if we were going to go
4 back in time and we were to compare regulated monopoly
5 industries and return to investors and we were to compare it
6 to commodity oriented industries where the main exposure was
7 price volatility, like refineries would be a good example,
8 and maybe I could try to do this study and prepare it for
9 another session, but you will find that the regulated return
10 to investors over time has been much higher than has been
11 apparent in pulp and paper and refinery and those type of
12 industries.

13 The reality is, and again I come back to the
14 refinery because I think it's a tremendous parallel to
15 electric generation in terms of the exposure to the volatile
16 commodity price. That has not been any windfall. There's
17 been the perception by investors that, hey, they can hit
18 this commodity price just right and they can earn excessive
19 returns. But the history has been it's been a disaster for
20 investors.

21 And guess what the early returns are for
22 investors in deregulated generation in the U.S.?
23 Unmitigated disaster. So, I don't think the investors are
24 getting any picnic in terms of earning an extra dollar.
25 They've been the ones that have been really clobbered on the

1 deregulation side.

2 MR. CALLAHAN: Does it make sense to put your
3 money in a utility that is a regulated monopoly?

4 MR. KIMMELMAN: Not --

5 MR. CALLAHAN: But I can tell you anybody here
6 who's got money in Walcom stock wishes the hell they were a
7 regulated monopoly right now.

8 MR. KIMMELMAN: Yeah. But I think the point I
9 was making is that the cost of capital is higher for a
10 regulated utility. The returns have been higher for a
11 regulated utility. I think the customers have benefitted in
12 the refinery sector, the pulp and paper sector, because
13 investors have been taking those risks and they've been
14 burned, so.

15 MR. MILES: Could we have one more question and
16 we're about 30 minutes behind schedule.

17 MS. JABER: Mr. Kimmelman, my name is Lila Jaber.
18 I Chair the Florida Commission and we are regulators. And
19 obviously I'm not going to take the approach you've taken.
20 I don't want to beat up on you. I'll respect that you beat
21 up on commissioners and industry. But on the industry's
22 behalf and then on my colleagues behalf, let me tell you
23 that at least from the perspective of Florida, the industry
24 has come through. I think to our utility's credit, IPP's
25 and IOU's, deregulated or regulated, have really come

1 through and made investment where they've needed to make it.
2 And they continue to do that. And Florida utilities have
3 been unique in embracing incentive base approaches to
4 regulations. So, I have nothing but compliments there.

5 But I think what colleagues of mine and the
6 industry have in common is we answer to a higher force and
7 that's the consumer. And I haven't heard you talk about
8 that at all. So I would suggest to you, when we're talking
9 about regulatory certainty, which I completely agree with.
10 I think regulation needs to be certain. I think whether
11 it's FERC or the Florida PSE or any other commission needs
12 to make a decision, abide by it and certainly make a
13 decision that's been well analyzed, well thought through
14 first. And again, our compliments go to FERC and what
15 they're doing in getting input.

16 But we also have to understand that the consumer
17 is more powerful than the analyst. And I would suggest that
18 you add that to your list because that drives innovation and
19 investment as well.

20 MR. KIMMELMAN: I couldn't agree with you more.
21 And I think investors realize that. And they know when they
22 invest in a high cost inefficient utility with very high
23 rates they're taking a huge risk because they know that the
24 customer is probably not getting a fair deal and that
25 there's pain that's coming around the corner.

1 And, in fact, I think over time if you'll look,
2 investors have done probably better in the low cost
3 efficient utilities because when the customer is happy, the
4 regulators are happy and a fair return can be achieved. So
5 I very much agree with you.

6 MR. MILES: One final question. Commissioner
7 Massey?

8 MR. MASSEY: I'm just going to throw my two cents
9 in here. I think that most of this discussion arises
10 because of the wake of the out of control western power
11 markets, which most of the state commissioners sitting here
12 have looked at it and said, we don't want any part of that.
13 Investors for a while thought it was going to be a gravy
14 train market and it's not. It's going to be a market in
15 which there are going to be just and reasonable prices.

16 And my question is, if the California market had
17 performed as well as, say the PJM market has performed over
18 the last few years, would we have this concern about
19 investor confidence right now? We have some concern. But
20 would we have nearly so much?

21 MR. MILES: Thank you. Let's move on to the next
22 speaker.

23 MS. MUSE: We weren't really finished with that
24 but I guess you have to move on.

25 MR. MILES: We're 30 minutes behind.

1 MS. BROWNELL: Maybe Doug could stay and answer
2 some questions.

3 MR. MILES: Sure.

4 MR. KIMMELMAN: Do you want me to comment on
5 that? I can.

6 MS. MUSE: One quick comment for you. You
7 started out by saying holding the regulatory bargain of the
8 pact, don't change the game in the middle of the stream and
9 sanctity of the contracts. The only concern I have with
10 that is that's fine provided, you know, new technology comes
11 in. And as Lila told you, we are answering to the consumer
12 when things happen out there.

13 And one other thing, when the company does not
14 come totally forward with information, should I say Enron?
15 And then we have to kind of regroup and get, you know, back
16 on track and make sure that we're not delving into the
17 pockets of our constituents. That's the biggest problem
18 that we look at. We don't just change those contracts to
19 try to put you on a merry go round. We really try to work
20 with the companies.

21 Like I said, that was mostly a comment. Thank
22 you.

23 MR. MILES: Okay, well, thank you very much.
24 Well, our next speaker; thank you, Doug. Our next speakers
25 are going to discuss forecast for future energy use and

1 economic impacts of energy. They're going to answer
2 questions, what is the southeast region's economic and
3 demographic outlook over the coming decade; what is the
4 forecasting growth in energy needs; how much energy is
5 available and at what prices? Where is additional energy
6 needed?

7 And our two speakers are Mary Novak and Scott
8 Sitzer. I also like to note that Chairman Patrick Wood has
9 been here for about the last half hour sitting at the back
10 of the room listening to the conversation. He's with us
11 today now. So, why don't we; Mary, if you don't mind?

12 MS. NOVAK: Thank you. Commissioners, thank you
13 for inviting me. Let me introduce myself. I'm Mary Novak
14 and I'm with DRI-WEFA, believing economic forecasting --

15 MR. MILES: Hold on. Can you turn that up a
16 little bit?

17 MS. NOVAK: You mean like this?

18 MR. MILES: Yes.

19 MS. NOVAK: Okay, oh, I see. That close. Okay.
20 As I said, I'm Mary Novak and I'm with DRI-WEFA, one of the
21 leading economic forecasting firms in the world. And my
22 presentation today is to sort of put you into the look
23 forward mode before this afternoon's discussions.

24 There are a couple of things going on in the
25 southeast markets and I'm going to concentrate on the South

1 Atlantic and what we call the East South Central Region, two
2 census regions for this presentation that are actually going
3 to change some of the major dynamics of the region. As
4 you'll note, and particularly of the electric utility
5 industry.

6 As you'll note here, what I've got, what I'm
7 showing is population expectations for these regions
8 relative to the U.S. That large blue bar in the middle is
9 the South Atlantic Region. And the reddish bar is East
10 South Central. As you'll note, these are average annual
11 growth rates over five year periods. What that shows is
12 during the previous five year period, '95 to 2000, the South
13 Atlantic Region had about a 1.7 percent annual population
14 growth and the East South Central Region had a one percent
15 growth.

16 Over the next decade, the South Atlantic's rate
17 of increase is going to slow almost unperceptively to about
18 1.5 percent per year. What that means is that over the
19 last, the 25 year period from about 1985 up to 2010, the
20 South Atlantic Region will increase by about 20 million
21 people. The East South Central Region will have a similar
22 but a much slower rate of increase of about a half of a
23 percent per year. But over that 20 year period they will be
24 increasing about three million people also.

25 Such an enormous rate of increase and huge

1 population bubble that's coming through the South Atlantic
2 Region here with actually no end in sight. So I want to
3 keep in mind the sheer number of people that are moving down
4 to this region and what that's going to do in terms of
5 economic requirements.

6 The next slide is real gross output. That's a
7 measure, a financial measure of what is produced in these
8 regions. As you can see, between '95 and 2000, South
9 Atlantic led the country in terms of its annual rate of
10 increase growing five percent per year. Over the next
11 decade, that's going to slow somewhat but not a lot. The
12 rate of change year over year is expected for this year to
13 be just slightly above two percent, popping up to three
14 percent next year. And then escalating up to about an
15 average annual rate of four percent per year for almost the
16 following ten years.

17 The East South Central Region is going to have a
18 little bit slower rate of growth. But again it will pop up
19 to about a 2.7 percent rate of growth and then move at
20 three, 3.1, 3.2 for the rest of the decade, putting enormous
21 pressure on infrastructure to support that rate of growth.

22 I'm going to slip forward a couple of slides here
23 to shorten this up a little bit. If you could go to Slide
24 7, Non-manufacturing Employment.

25 MR. MILES: Non-manufacturing; thank you.

1 MS. NOVAK: Here's where the story is in non-
2 manufacturing employment. The South Atlantic Region, let me
3 just recap. We have about one and-a-half percent expected
4 average rate of population growth. A total employment
5 expectation of 1.8 percent and a personal income growth rate
6 of 2.5 percent. On East South Central, we have a population
7 of about a half a percent increase, a non-manufacturing
8 employment rate of one percent and personal income growth of
9 two and-a-half percent.

10 Why are those three things important?

11 Population, non-manufacturing employment and personal income
12 are equal contributors to the rate of growth of electricity.
13 They all play a part of pushing that electricity growth up.
14 What does it mean for sales? The next slide.

15 This slide is an index slide. What I've done
16 here is I've taken the electric sales history and our
17 projections. And I've indexed it to 2000. What you seen
18 then is for the particular regions exactly how much
19 additional power will be required. In the South Atlantic
20 Region over the next ten years, we're going to need to
21 supply 30 percent more power than was supplied in the year
22 2000 to meet or to support the economic growth projections
23 that we, that go along with our population estimates.

24 So that means we're, for all the capacity for all
25 the power that was sold in the year 2000, you are going to

1 need, to be able to produce and get to people 30 percent
2 more within the coming decade. The East South Central
3 Region will have a little bit slower rate of increase but it
4 will also require more than 20 percent more power delivered
5 to homes and businesses over the next decade.

6 If you could flip to 10 now. While these are
7 dramatic changes, there is still fundamentally an
8 improvement in electric intensity in these regions. That
9 means while we're having to increase power 30 percent in the
10 South Atlantic Region, we are continuing to make fundamental
11 improvements to position us better for growth in the long
12 term. These are highly electric intensive regions relative
13 to the rest of the United States. And as you can see, the
14 average electric intensity is declining over the period. So
15 that means we are making fundamental technological
16 improvement in end use demand so that we can get the most
17 out of our electric dollar.

18 What does this come down to? If you can flip to
19 Slide 13. How much capacity will we need? Well, if we're
20 going to sell 30 percent more power, today that means we
21 need 30 percent more capacity. As you can see over the
22 previous ten years, we sold about 30 percent more power in
23 the South Atlantic Region while only increasing our capacity
24 about ten percent.

25 How did we do that? Within this region, we

1 increased the utilization of every piece of capital that we
2 had. Nuclear has been running flat out in this region.
3 Coal's been running at an extraordinary rate. We've pushed
4 our oil units back on line and are now running them at a
5 very high rate. We've done that and still continue to meet
6 our mission limits.

7 But that's over. Everything's about running at
8 what it can be possibly be expected to run. So over the
9 forecast interval to sell another kilowatt hour means
10 building capacity to get it to customers. So to support the
11 electric requirements of this dynamic and growing economy,
12 you're going to need to build 30 percent more capacity.

13 Right now our expectation is to step out one
14 third to two thirds, so maybe about half of the capacity has
15 been planned. It's not expected to come on line all that
16 quickly but it has been planned. And you can see that that
17 bubble, in terms of pushing up the capacity during the first
18 five years of the forecast is dependent upon getting that
19 planned capacity on line and running.

20 It's a huge amount of capacity though. What
21 we're talking about is in the South Atlantic Region adding
22 an incremental, it looks like about an incremental 60
23 gigawatts of capacity over the next ten years. And in East
24 South Central adding, you know, maybe 25 kigawatts of
25 capacity over the next ten years. So, this region has an

1 enormous requirement for new capacity and the ability to
2 move the power around. It's at the limit. It's used up all
3 of its excess capacity and is in a build mode.

4 In terms of requirements for natural gas, if you
5 turn to Slide 15. The forecast currently says that most
6 planned capacities is expected to be natural gas and this
7 will create; I think the next one. Requires additional
8 infrastructure development. Right now to meet the expected
9 build of gas combined cycle units in the South Atlantic
10 Region we are going to need to increase deliveries of
11 natural gas into this region by 50 percent over this period.

12 So, bringing some of the pieces together, I think
13 the representatives from FERC showed you that over the last
14 decade substantial increases in economic activity,
15 substantial increases in population were largely met with in
16 place capital. The capital stock on the ground was used
17 more intensively. Going forward we see a continuation of
18 the pressure for more energy resources and with the ability
19 to push the present system coming to an end. It means a
20 substantial and very large and continuing requirements for
21 build over the next 20 years.

22 MR. MILES: Scott Sitzer, please?

23 MR. SITZER: Thank you very much. Thank you for
24 the opportunity to present EIA's projections of energy
25 markets in the southeast. My name is Scott Sitzer. I'm

1 from the Energy Information Administration. As many of you
2 are probably aware EIA is the independent statistical agency
3 in the Department of Energy. We have responsibility for
4 comprehensive data collection, analysis, forecast and
5 dissemination. We're not policy advocates but we do
6 analysis to try to help policy makers in their work.

7 What I'd like to talk about this morning is our
8 projections through 2020. I can compliment what Mary did
9 nicely because I'm going to go out another ten years, which
10 is riskier, I guess, but at least it's different. Each year
11 we do that annual energy outlook, which is a midterm view of
12 U.S. energy markets which we prepare for the public,
13 Congress, industry and the administration.

14 Our report contains projections of energy markets
15 based on various assumptions including world oil prices,
16 economic growth and other factors. And what I've tried to
17 do is to boil down this forecast to the southeast region.

18 I'd like to mention that everything we do is on our website,
19 which you can access at www.eia.doe.gov, including the
20 annual energy outlook and all the other publications and
21 data that we, that we do.

22 Put the first slide up. I think we talked a
23 about a lot of different regional configurations this
24 morning. I picked one that did not include Texas or
25 Virginia because they tend to be somewhat looking at

1 different parts of the region. But at any rate, this just
2 compares the growth by energy end use sector both in the
3 U.S. and in the southeastern region. And the big difference
4 is over the period through 2020 are primarily in the
5 residential and commercial sectors. And what we see is
6 considerably more growth in the southeast, in those two
7 sectors in terms of energy consumption than in the U.S. as a
8 whole. In fact, as much as 50 percent more in the
9 residential sector.

10 Primarily this has to do with some of the factors
11 Mary was talking about. New population growth, increase in
12 light industry, immigration, as baby boomers are aging, this
13 becomes a more and more attractive area for in country
14 immigration. So we see considerable growth, particularly in
15 the residential sector but also the commercial sector which
16 tends to meet the kinds of needs, the retail needs of
17 people, new shopping malls, new office buildings and so on.

18 The remaining sectors grow at about the same rate
19 in our forecast as the rest of the U.S.; industrial,
20 transportation. Transportation has a growth of 1.9 to two
21 percent, the highest in the country. But only the second
22 highest in this region. And electricity generation,
23 although as I'll mention in a minute, we do see electricity
24 generation growing. We also see it becoming somewhat more
25 efficient in this region. So overall consumption by that

1 sector of primary fuels, coal and natural gas, oil and so
2 on, is slightly lower than the U.S. as a whole even though
3 the growth in electricity consumption is higher.

4 Next slide, please. What this shows is current
5 and new generating capacity in the U.S. And I put it in to
6 try to contrast it with the southeast. Today coal is very
7 much the mainstay of U.S. generating capacity. Of our 700
8 and some odd gigawatts, over 300 of them are coal. In
9 addition, we have nuclear, which is about 20 percent of the
10 stock. And hydro another ten percent. Natural gas combine
11 cycle, natural gas turbans are a much smaller proportion.
12 But over the next 20 years, as has already happened in the
13 past four, five years, and as most forecasters agree, we see
14 a tremendous increase in new natural gas capacity in order
15 to meet the country's needs.

16 If you go to the next slide, you'll see that it's
17 very similar in the southeast. Again, coal, nuclear and
18 hydro are very important in this region today but in order
19 to meet the new growth that this region needs over the next
20 20 years, we see a tremendous growth in natural gas combine
21 cycle. Just about 60 gigawatts of new capacity being needed
22 and coming on line over the next 20 years. And in order to
23 meet peak demands, approximately another 25 to 30 gigawatts
24 of combustion turban.

25 Towards the later years of the projection

1 periods, say after 2012 to 2015, as natural gas prices begin
2 to rise, then we see an opening for coal. And we have about
3 12 gigawatts of new coal coming on line in this projection
4 for the southeast over the next 20 years. But mainly that
5 comes in the second half of the projection because as all
6 that new natural gas capacity comes on in the early years,
7 it will tend to drive up somewhat the price of natural gas.

8 Electricity prices in the southeast, we project a
9 fall at the rate of about 0.3 percent per year, which is
10 about the same as is expected nationally. You've already
11 had a discussion about regulation and deregulation. We do
12 not assume any new, any further deregulation that hasn't
13 already been announced in our projections. And retail
14 deregulation is not occurring in the southeast right now.

15 But nevertheless, you do have the wholesale
16 markets, which tend to have some impact on prices throughout
17 the country. We expect prices for power to decline over
18 time because as that competition lowers operating cost
19 throughout the country, some of those benefits are felt.
20 Even in those regions that aren't deregulating, we expect
21 that the introduction of that gas fired capacity tends to be
22 more efficient and we also see lower coal costs. And all of
23 that should offset the effects of increases in natural gas
24 prices.

25 So overall we see a continued decline in annual

1 average of electricity prices in this region as well as in
2 the country as a whole.

3 Look at the next slide, please. This shows our
4 forecast of natural gas consumption in the southeast. And
5 it's a very stark picture. That what we are looking at is a
6 tremendous increase in the use of natural gas, particularly
7 in the electric utility sector. In 2000, consumption in the
8 utility sector around 750 BCF and we're looking for
9 something closer to three trillion cubic feet by the year
10 2020. And this again has to do with all the new generation
11 capacity coming on line that we expect to be powered by
12 natural gas.

13 Overall we expect natural gas consumption in the
14 southeast to increase at about three percent over the
15 forecast compared to two percent for the nation as a whole.
16 And again, in this case I'm referring mostly to the South
17 Atlantic and East South Central Divisions and not including
18 Louisiana and Texas. Again, we expect all of the primary
19 sectors to experience consumption growth in excess of the
20 national average, except for the industrial sector, which is
21 not, which is basically growing at about the same as the
22 national average.

23 We expect that the number of households in the
24 region will increase by about 1.3 percent compared to about
25 1 percent of the country. And, again, by 2020 the

1 consumption in the region is projected to be nearly 3 TCF
2 higher than it was in the year 2000.

3 The intensity of commercial natural gas use,
4 which is consumption per square foot, is somewhat lower than
5 the country as a whole. But because of the growth in the
6 sector we see increased growth of about 2.2 percent in that
7 sector.

8 In terms of natural gas consumption by electric
9 generators, we see the share of the natural gas market
10 reaching about 45 percent in 2020 compared to the U.S.
11 average of 30 percent. Historically natural gas has had
12 about half the share of electric generated market in this
13 region compared to the rest of the U.S. But by the end of
14 the forecast period, not only has this share increased from
15 six to 20 percent, but it's nearly equal to the national
16 share by 2020, which is also projected to grow. Again, we
17 see growth by electric utilities increasing by about 2.1
18 trillion cubic feet over the forecast period.

19 Next slide? This graph shows what we see as
20 capacity coming into the region not including Louisiana.
21 So, it's not necessarily entirely capacity coming, flows
22 coming from outside the region. But it does give you an
23 indication of what some of those, some of the infrastructure
24 requirements are. And basically what we see is about one
25 TCF of inflow capacity being required between now and 2010

1 mainly because we see an increase in the utilization of the
2 capacity that's being used for gas coming into the region.

3 The reason for that is as we get more electricity
4 generation coming from natural gas, it can go in the
5 opposite direction of the usual peaks. Natural gas tends to
6 have a winter peak. Electricity tends to have a summer
7 peak. If natural gas is going to be used for more
8 electricity generation, it's going to allow us to use the
9 capacity that we have in a somewhat more efficient matter.
10 And we believe that utilization can grow from about 60
11 percent today on an annual basis to over 75 percent by 2020.
12 So, the growth in the flow into the region is somewhat
13 greater than the growth and capacity. At least these are
14 the projections that we see coming for this region.

15 Talk a little bit about prices. The average
16 natural gas well head price is expected to increase from a
17 relatively low 2002 level, as we projected it last year, to
18 \$3.26 per 1,000 cubic feet in \$2,000, which is an increase
19 of about \$1.28 in real terms. You factor in inflation, it's
20 going to be more than that. We're looking for the same
21 pattern in various regions including the southeast.

22 Although prices to the residential and commercial sectors
23 are expected to experience somewhat less of an increase
24 hopefully with the increased utilization of the pipelines.

25 But we do see prices to the electric generator

1 sector increasing nearly \$1.50 per 1,000 cubic feet by the
2 time we get to 2020, somewhat over \$4. And this is what
3 brings the opening for coal in the second half of the
4 forecast.

5 Very quickly to talk about coal. We expect to
6 see coal continuing to be a very important part of this
7 region's electricity generation. Projected increase of
8 somewhere between 75 and 100 million tons. And the big
9 change is more western coal. As eastern coal seems and
10 reserves begin to be played out and as the cost of getting
11 them becomes more expensive, it's an opening for the cheaper
12 western coal to come into this region. And we do see that
13 happening by 2020, particularly in the western part of the
14 southeast region.

15 We also see prices continuing to fall partly
16 because of the movement to the west but also because of
17 improved productivity. Coal production has improved in
18 productivity by six percent a year for the past two decades.
19 We don't expect that kind of growth to continue, but we
20 still see two to three percent a year. And the southeast
21 should benefit from that in terms of the prices that they
22 pay for coal.

23 So, to summarize, we forecast electricity demand
24 in the southeast will grow somewhat higher than the U.S. at
25 a whole, at about two percent a year. We expect that demand

1 to be met with new natural gas fired capacity. We expect
2 new pipelines to be built and to be used more efficiently
3 and coal to continue to be a mainstay for electricity
4 generation in this region.

5 Thank you.

6 MR. MILES: Thank you. Unless there's a need for
7 any questions, we're about a half hour behind. So, why
8 don't we move on to the next panel. Can I have the next
9 panelists come up please? We're not going to take a break
10 but if you need to get a drink of water, feel free to go.
11 But if I could have the next panel up.

12 Thank you, Mary. Thank you, Scott.

13 MR. SITZER: You're welcome.

14 MR. MILES: Has anybody seen Walter? Well, okay,
15 we'll come back to Walter. Okay. We begin our panel
16 presentation before the lunch recess. And as with all three
17 panels today, we have a distinguished panel. And it's a
18 privilege to have them here today. My role is that of a
19 moderator facilitator. And they'll make my job a lot easier
20 if they engage in a discourse after their presentations,
21 which are to be limited to five minutes.

22 My role is also to make sure that there's a good
23 balance and hopefully that we will have a very engaging
24 conversation. Our goal is to have a panel presentation
25 that's different from the tradition processes where

1 panelists might speak for 15 to 20 minutes from a prepared
2 statement. This is going to be different, so we hope it is
3 engaging. And with that, I'll start with our first panel
4 speaker, and I'm going to not give introductions other than
5 their names because as I indicated their bios are in the
6 back. But our first speaker is Walter Revell. He's the
7 Chairman and CEO of H.J. Ross and Associates. Mr. Revell.

8 MR. REVELL: -- Florida Energy 2020 Study
9 Commission. Chairman Wood was one of our experts during our
10 15 months study. And I'm pleased to be here. With the help
11 of Billy Styles, who was the Executive Director of the
12 Florida Energy 2020 Study Commission and now with the Catz
13 Stutter Law Firm in Tallahassee, we have worked very hard to
14 research this subject from my perspective. These are all
15 professional experts here. I'm just a layman. I'm a public
16 policy nut. I've been doing it a long time in Florida.

17 But with Billy's help we checked out the
18 southeast. Billy called the chief geographer in each of the
19 11 states and asked them in the next ten to 20 years are we
20 going to move any mountains or rivers or big lakes or
21 coastal lines? And in every case they said, not many. Then
22 Billy called the chief demographer in each of these 11
23 states. He said in the next ten to 20 years, are we going
24 to move any large cities or metropolitan areas or population
25 centers? In every case they said, not many.

1 Then it was my job to call the chief sociologist
2 in each of these 11 states. And my question was in the next
3 ten to 20 years, are we going to have anymore informed
4 citizens who know anything about their economy, their
5 capital markets or their infrastructure or particularly
6 about energy and how it's generated, transmitted and
7 distributed. And in every case I got the answer, not many.

8 Then I called Paul Vocher, in Washington, who
9 covers all subjects. And I said, Mr. Vocher, in the next
10 ten to 20 years, are we going to have any more public
11 officials or regulators or professional technical staff who
12 have a comprehensive grasp of all the issues before them and
13 all the skills needed to address them? And he said, not
14 many.

15 And in fairness, I called Louis Ruckiezer in
16 Washington, as he's changing jobs but I had a good
17 conversation with him. And my question of Louis Ruckiezer
18 was in the next ten to 20 years are we going to have anymore
19 utility companies executives with a deep appreciation for
20 the regulatory process and great patience in it. And he
21 said, not many.

22 So, we have a real challenge before us. The only
23 people in the southeast who can handle all this stuff are in
24 this room. So we have a very heavy burden here today to
25 cover all these subjects. The challenges, as I see it, for

1 all of you people who devoted your careers to all this stuff
2 is, after 100 years, energy is no longer a mature industry.
3 In the last five years we've almost started all over again.
4 In fact, one of the keys is how all of us work together to
5 make sure it's not really starting all over again. If we
6 can capture most of what we've learned and done and
7 benefitted from over the last 100 years so we're not, we're
8 not starting in the crib.

9 We have no constituency. I'm a public policy
10 guy. I mean a constituency who, lay people who understand
11 all this stuff, which was one of my facetious questions.
12 We don't have a constituency for energy, Including my wife
13 and my family. All of our laws, regulations and policies
14 are under scrutiny. Many are undergoing dynamic change. We
15 have all kinds of new models and new players. Transelect
16 was alluded to as a great example of all that.

17 We now have competition and controversy. We have
18 California and Enron. We're addressing new systems like
19 RPO's and ISO's and the chairman particularly has been
20 devoting his leadership with the support of his
21 commissioners to all of this. We are now getting lectured
22 as never before about capital investment and reasonable
23 returns and allocations of cost and pricing and economic --

24 We are face to face in a different way than ever
25 before with lawmakers and the state senator on my commission

1 said, Florida's policy makers can't handle this. Their
2 knowledge on energy, like everything else, is a mile wide
3 and an inch deep. And none of them plan to go any deeper.
4 And yet they have the final vote on so much of what we're
5 talking about.

6 And the typical local commissioners, city and
7 county, I'd say are exemplified by those in Pompano Beach,
8 Florida, addressing a new power plant location whose the
9 mayor lady said, I'm against this new power plant because
10 it's really going to impact on the flea market and the
11 butterfly farm.

12 Finally, we're here to talk about FERC's role.
13 FERC is a very powerful agency. In fact, it ranks fifth in
14 importance to four other powerful groups. The Securities
15 and Exchange Commission; the stock exchanges, particularly
16 the big board; and we've recently been reminded, the legal
17 profession and the accounting profession. So FERC is
18 terribly important but it's in fifth place. And among state
19 regulators, it is clearly first among equals except there's
20 one of them and 50 of you all. So, it's a very challenging
21 situation.

22 I hope we're going to get Chairman Wood's picture
23 on either Forbes or Business Week or both out of all of
24 this. But I would remind him, he's a brilliant fellow,
25 highly prepared for this job. But you get on these covers

1 by doing really, really good or really, really bad. And I
2 would suggest that he be ready when the photographer comes
3 by to make it a group picture with him on the back row.

4 My final advise, and I've heard it today, we all
5 slip into. I have no patience for talking about problems.
6 I have no patience for dwelling on problems. I have no
7 patience for dwelling on the past. And it's an absolute sin
8 in society to dwell on problems of the past. We are never
9 going to face the future if we spend all of our time
10 dwelling on problems of the past.

11 We ought not beat up on the incumbents. And we
12 ought not praise all the innovators. We're somewhere in
13 between, folks, and we need to get on with facing the
14 future. I'm pleased to be here. Thank you very much.

15 MR. MILES: Thank you very much. Our next
16 speaker is Bill Newman. He's the Senior Vice President for
17 Transmission and Planning in Operations at Southern Company
18 Services. Mr. Newman?

19 MR. NEWMAN: Thank you, Rick. If you'd put up
20 that first overhead, the one that's the map. Thanks for
21 allowing me to participate. It is a real privilege to be
22 here. With all of the different things we heard so far, the
23 one thing I've gotten out of that is that I'm really a lot
24 more optimistic that there is a good solution than I was
25 when I walked into the room. There's much difference, as

1 we've seen, and I will have some number statistics and
2 points that are a little from what you've seen earlier.

3 The questions that we have in the information we
4 were sent seem to assume that transmission is not being
5 built to meet the needs of the consumers and that major
6 bottlenecks exist. It depends on your point of view. I
7 would tell you that there is a tremendous amount of
8 transmission that's being built. Traditional planning has
9 worked. I'm talking about history. I'm going to get to the
10 things about what we're really for in just a minute.

11 But in the past, and as of now, the traditional
12 planning has worked. Traditional planning means you know
13 where the generators are and you know which loads those
14 generators will serve. The region, the southeast, has been
15 planned and expanded in a way that's consistent with FERC
16 planning guides and reliability criteria. That has been
17 accomplished. This is a very reliable area to the U.S.
18 That's history.

19 The system has been designed, and this was
20 pointed out by Scott earlier, so that within the particular
21 system that was being designed, there is no congestion.
22 That's the way it's designed and that's the way it operates.
23 There's no congestion even with one or two contingencies,
24 meaning line out or generator out, within that particular
25 system. In our case the southern electric system. In the

1 case of Florida, I think the utility's planned the
2 transmission system and generation as a whole. So, there's
3 no congestion in that region.

4 So the question really is one of economics and
5 congestion across the region and what is the best way to
6 address that overall, not just transmission wise. One
7 example I might make is today southern companies
8 transmission investment, the gross investment, is 4.1
9 billion dollars and over the next five years we plan to
10 invest 3 billion dollars more. 4.1, three billion dollars
11 in five years, if you look at the history of the company;
12 that's gross investment, not depreciated, tremendous
13 expansion.

14 There's some other statistics I can show you for
15 SERC and for western systems coordinating council, which is
16 the only other region in the U.S. that has more miles of
17 transmission plan and it's only a few miles more over the
18 next ten years. It does not address all of the issues
19 you're here today to talk about. That transmission is there
20 to serve load and it would keep that congestion that Scott
21 was talking about, that is addressed within the vertically
22 integrated utilities and whatever group that is planned
23 together. It will keep that congestion to a minimal. We
24 have seen reduced margins because we pushed the system
25 harder to accommodate more wholesale transactions.

1 Well, all that's history. And that's not really
2 what we want to talk about today. If I could see Slide No.
3 2, please. I saw some different numbers today and some of
4 them showed numbers for increased generation and margins
5 going very small and all that sort of thing. And they
6 included different areas. But what you see here, the green
7 bars represent the SERC summer peak load. And I chose SERC
8 because I could get consistent statistics. If you include
9 Texas, I have some numbers of the FRCC. I'm not sure they
10 add up linearly and I have some slides on that. But I
11 stayed with SERC. That is the biggest geographic region
12 we're talking about.

13 The green bar represents the SERC summer peak
14 total demand as reported in the EIE 411 for 2001. That
15 demand includes approximately eight thousand megawatts of
16 interruptables. So the difference you see between the blue
17 bar, which is the SERC summer net capacity reported in the
18 same document. The difference in those two is generation
19 margin.

20 Now, obviously in the future years, that's not
21 all built yet. That's not a real issue because of the short
22 lead times and constructing generation and I'll give you a
23 few other numbers in there in a minute that says I'm not
24 concerned about under supply of generation in this region.
25 By the way, if you interrupted that 8,000 megawatts, which

1 is there and contracted for, that margin increases. The
2 margin; you can't tell from that but I can tell you that
3 it's 10.7 to 13.1 percent over those years for -- If you add
4 the FRCC in together, the numbers go up a little bit, a
5 percentage point or two.

6 The blue line that you see up near, it starts off
7 down at the lower left and moves up across the upper part of
8 the chart. It's from the SERC 2001 generation development
9 survey. And it reflects generation connected as of 12-31-
10 2000 plus all generation requesting interconnection. Now,
11 that's not all built and some won't be built. So the
12 numbers look really high and I know that. But what is going
13 to be built? How do I plan a transmission system and expand
14 it without knowing that? Well, there is a way. You wait
15 until you know what is going to be built in the transmission
16 and then you build it.

17 But when you look at that number; look at the red
18 line in addition to that. It's the same type of information
19 but it's from the latest 2002 SERC Generation Survey. So
20 all of that is generation that's requested interconnection
21 or has announced that they'll build in this area. Now, with
22 those number, I haven't calculated that margin but I'm not
23 concerned about a generation margin. Okay? So, I think the
24 generations going to be built.

25 What is happening in some areas is that the

1 generation is locating all in one particular place. It's a
2 couple of spots, particularly in our system. They're
3 locating there and it's creating some considerable issues
4 with the ability to export their power. And as they request
5 for transmission, we'll try to address those issues.

6 I think the real issue turns out to be, in a
7 global sense for an engineer is it more economic to locate
8 the generation in a distributed fashion, and I'm not talking
9 about distribution resources and only distribution system,
10 but spread out. There's a map that's on the table as I came
11 that showed a pretty good distribution of generation. Is it
12 more economic to distribute the generation and haul the
13 fuel, coal and gas? Or is it more economic to locate it in
14 places where the gas may be very inexpensive or at -- for
15 coal plants and then build transmission?

16 I have an answer and I've given it earlier here.
17 Distributing that generation is better from an economic
18 viewpoint and it's certainly better from a reliability
19 viewpoint particularly if some of it has an energy stockpile
20 sitting right out there next to the plant with a big old
21 pile of coal or a fuel source such as nuclear. The
22 reliability side has certainly improved.

23 In fact, in one case I heard recently, and Terry
24 may elaborate on it, the worse contingency that was seen in
25 a study of reliability for a region was the lose of a

1 pipeline. Never happened before. Actually, it has.
2 There's been a couple of them that's been lost. So, there
3 are other things that haven't happened before last September
4 that now have happened that we have to be concerned about.
5 And distribution of the generation is why.

6 I have to assume that RTO's will operate the
7 system in a reliable fashion, however they're built, within
8 their limits. If I can't assume that, it doesn't matter how
9 much transmission you build anyway. But I have to assume
10 they'll operate them within their limits. The real question
11 is economics. And that really gets down to who pays.

12 If generators are not sent some form of economic
13 signal, and location marginal crossing is one of those once
14 a market is established, if they're not sent some form of
15 economic signal and the transmission costs are socialized,
16 spread over a large region, then they will locate in ways
17 that suit their best purpose. They should.

18 There are economic signals sent for
19 transportation of fuel. I have seen an aggregation of
20 generators right across one of those geographic barriers
21 that we were talking about earlier just to the west of the
22 Chatawhochee River because on the east of the Chatawhochee
23 River there's an increase in fuel price and a fuel severance
24 charge. A lot of generators located there. Did they
25 consider the cost of the transmission system? Not to the

1 degree that it should have been.

2 My real point is that all of the costs need to be
3 considered. And if somebody makes an economic decision to
4 locate in a particular location, it wants to be right here
5 because the environmental issues are less, it's easier to
6 sight here. The fuel cost is less, so on and so forth. And
7 it is far from economic in terms of expansion of the
8 transmission system. Could that person, entity pay for the
9 expansion of the transmission system and get the associated
10 right and put that risk where it really belongs. We call
11 that participant funding and have talked about it a good bit
12 and I think it's a way to get it done.

13 So, I think the real question here is besides the
14 engineering issues of what is most efficient and reliable
15 and all that sort of thing, when you get past that, if
16 people chose to do things that don't tend to optimize, then
17 I think it's a question of who pays.

18 Sorry, Rick.

19 MR. MILES: Okay, thank you. Our next speaker is
20 Terry Boston. He's the Executive Vice President for
21 Transmission Power Supply Group, Tennessee Valley Authority.
22 Mr. Boston?

23 MR. BOSTON: Thank you, Rick.

24 MR. MILES: Can we send him a mike?

25 MR. BOSTON: Testing, testing. There we go.

1 Thank you, Rick. And I would like to thank Pat Wood and the
2 entire Commission for hosting this meeting to look at, or
3 all these meetings to look at the infrastructure for
4 America's energy system. TVA is a federal corporation with
5 a unique mission for the Tennessee Valley Region. That
6 mission includes something very close to what the
7 Commissioners here are also responsible for. And that is
8 providing reliable power at the lowest feasible cost.

9 TVA has gone to great lengths to participate in
10 the development of what we hope will be a stronger more
11 reliable and more open transmission system in the southeast.
12 We are also working very hard to adapt to the new market
13 dynamics that is occurring, that Bill has referred to.

14 For instance, TVA has voluntarily followed Burke
15 Order 888 and 889 and we're working closely with neighboring
16 systems to develop strong transmission coordination
17 agreement with the help of Pat Wood and others to meet the
18 objectives of Burke Order 2000.

19 I agree with Bill. We had reliability
20 coordination agreements in the southeast before the
21 northeast blackout in 1965. Traditionally, transmission
22 planning has worked well in the southeast. However, there's
23 very little that is traditional about the emerging energy
24 dynamics in the southeast with the gas well heads and the
25 gas supplies.

1 Unless we focus as hard on the physical nature of
2 the grid as we have focused on the economics of the market,
3 I believe that the continued reliability is by no means
4 assured. Simply put, we're building an ever increasing
5 number of generators along the gulf coast to move power ever
6 greater distances and we're asking the grid to do things
7 that it was never designed to do.

8 Let's go to Slide 1 there, please. Consider the
9 growing imbalance between generation and transmission in the
10 U.S. I apologize, Walter, this is history. It's easier to
11 talk about than the future. But historically, generation
12 and transmission has built, has been built in lock step.
13 The blue curve, red to the right axis, shows in the mid
14 '70's, we were putting about five billion dollars a year in
15 the nation's transmission system and we peaked at about
16 30,000 megawatts going in to the generation systems, red on
17 the left axis. So, it was a tightly integrated planning
18 process.

19 As you move through time, there was a C change in
20 the mid '90's. Something happened in 1996. Transmission
21 investment went through the floor and generation went
22 through the roof. Bill was talking about numbers in SERC.
23 By July 1 of this year, we will connect more generation this
24 year in SERC than the nation as a whole connected last year.
25 We expect that to double by the next year and the numbers

1 show almost a hundred percent reserve margin.

2 Folks, the generating cup is not empty. The
3 transmission straw is beginning to clog. The recent
4 adoption of fastest site first following the price spike of
5 1999 encouraged the location of generation. As Jeff had
6 noted, there's hundreds of new generators being concentrated
7 near the well heads where they can be built quickly and
8 connected to the gas supplies and to what available
9 transmission lines were there.

10 As an engineer, it concerns me to see the
11 emphasis on the grid operation is shifting towards untested
12 economic theory instead of following the laws of physics. A
13 Harvard economist that we all know well, Bill Hogan, pointed
14 out in a recent paper that the major problem in California
15 was assuming of the way the physical characteristics of the
16 grid to simplify the market.

17 Electrons don't understand supply and demand
18 curves. They don't read contracts. As a matter of fact,
19 power transactions take the path of least cost resistance.
20 And electrons take the path of the least electrical
21 resistance. As long as we ignore Alms Law and Kirchoff's
22 Law and we schedule power and cash flow, a long contract to
23 past instead of the way the electrons actually flow, the
24 system will be over booked and at great risk.

25 Let's consider the airline industry. If Delta

1 Airlines could book seats on American Airlines' planes and
2 Delta gets to keep all the money, how many seats would Delta
3 book? A lot. What incentive would there be for American to
4 add more planes to handle Delta's customers? None.

5 I want to take a quick example of how this
6 applies in the electric business. On August 19th, 1999, a
7 day when we were in good shape capacity wise, we came into
8 the control center and there were heavy north to south flows
9 across our system. About 8,000 megawatts not scheduled with
10 us flowed across our system. Never had we seen such heavy
11 flows and we were in good shape going into that day.

12 There was a severe voltage drop that resulted all
13 the way from PJAM to Oklahoma. In fact, on that same day
14 Calaway Nuclear Plant had to report to NRC there was not
15 enough voltage on the grid to support a safe shut down of
16 that reactor. Folks, this is serious business.

17 Equally disturbing on that day we were closer to
18 a blackout than any of my 29 years in the industry. If we
19 had lost one single 765 line of 500 KV line, there would
20 have been a widespread, multi-regional blackout. We are
21 forcing a transmission system designed to serve local loads
22 from nearby generation to handle vast quantities of
23 generation over vast distances. It's like taking a two lane
24 highway system and trying to make it look like an interstate
25 system.

1 Let's go to Slide 2 for a second and talk about
2 it.

3 MR. MILES: You've got about two minutes left.

4 MR. BOSTON: Okay. There's a, if you look at the
5 amount of generation that's being added along the gulf
6 states that Jeff talked about earlier, and you take a cut
7 line from Chicago to the center of the Cofields, where
8 there's very little differential in price to justify a major
9 transmission project, over to the Appalachian Mountain
10 ridge, where AEP has been trying to site a transmission line
11 for 15 years, come through the Great Smokey Mountains to
12 South Carolina and head to the Atlantic, you cross two 500
13 KV lines and four 345 KV lines.

14 Most of the population lives to the north of that
15 line. Most of the generation that's coming in is to the
16 south of that line. It is a fairly serious problem. Most
17 of the overloads we've seen have been north to south. Last
18 year we had an overload south to north.

19 I am pleased that we've been working hard at TVA
20 to try to develop an interstate highway system. Let's go to
21 Slide 3. This year we have the largest capital investment
22 in transmission in the history of TVA adjusted for
23 inflation. Over the past six years we have built 620 miles
24 of new transmission lines. Our R & D staff is working hard
25 on new approaches for high voltage DC. Here you see a

1 sample of using existing right of way, you would have the
2 super highway system on top, high voltage DC. On the bottom
3 your local and state highway system for local deliveries.

4 In addition to that we're working on a re-genesis
5 project that's new advanced storage using fuel cell and
6 chemical batteries. We're working on diamond coatings with
7 VanderBilt University that can increase the power
8 electronics capability by two orders of magnitude, ten times
9 the voltage, ten times the power output. This will allow us
10 to move more power over existing right of ways and lower the
11 risk of a voltage collapse.

12 In fact, we are currently joining forces with the
13 national Laboratories at DOE, as was noted in the DOE
14 transmission report that came out, to work on these new
15 promising technologies and sharing with them what we've done
16 today.

17 In summary, the cost of power outages are
18 growing. The societal cost of having, of not having enough
19 transmission is small compared to the societal cost of
20 having power failures and voltage collapse. Those who want
21 long haul transactions must be willing to make firm
22 contracts and commitments as Bill has talked about. TVA is
23 working hard to be a part of the solution. And for that
24 reason I'm pleased to be a part of this conference.

25 Thank you very much and I look forward to the

1 questions.

2 MR. MILES: Thank you, Mr. Boston. Our next
3 speaker is David Pursell. He's the Director of Research for
4 Simmons & Company International.

5 MR. PURSELL: Thanks. I think we've heard a lot
6 today about the growing demand for natural gas. That's been
7 a constant theme over the last through years driven by gas
8 fired power generation.

9 Walter wanted solutions. Well, the solution to
10 guaranteeing an adequate supply, it's really twofold.
11 Either build a lot of LNG terminals on the east coast and
12 the gulf coast or put 40 drilling rigs in the eastern Gulf
13 of Mexico, okay? You're not growing a popularity contest
14 with that kind of answer, but that's a reality.

15 I want to run through some statistics to just
16 highlight that point. In 2001, the industry drilled a
17 record 22,000 gas wells, natural gas wells in the U.S. That
18 is ten percent above the prior high drilled in 1981 when we
19 were drilling for lots of oil back in the early '80's. The
20 22,000 gas well completions last year was 40 percent above
21 wells completed prior year. 120 percent more completions
22 than 1990, okay? This is not rocket science here.

23 What did we get from that? Last year production
24 increased two percent from prior year. It increased two
25 and-a-half percent from 1999 levels. Not an annual

1 increase. '99 versus 2001, 2.1 percent increase in natural
2 gas supply. We more than doubled the number of gas wells
3 completed and essentially got nothing for it.

4 If I'm building a nature gas fired power plant, I
5 think those numbers are fairly startling. Now, if you're a
6 believer that there's a lag affect from the time that we
7 complete wells to the time that production actually hits the
8 market, let's look at first quarter of 2002 production as
9 drilling rate count fell through the back half of last year
10 due to the low prices, due to low natural gas prices.

11 First quarter production is down five percentage
12 compared to a year ago period. The first quarter of 2002 is
13 down five percent. Based on Dealy numbers and based on
14 reported production from the publicly traded ENP and major
15 integrated oil companies. That is a startling statistic.

16 If you look at the reported production from the publicly
17 traded companies, it's also down two percent from fourth
18 quarter 2001. There is no lag affect. Production will not
19 grow this year.

20 If we look at net imports, okay? There's kind of
21 a build it and they will come mentality regarding LNG and
22 pipelines from Canada. Imports increased in 2001, and
23 remember imports are about 10 BCF a day over 60 BCF a day
24 consumptive base. Imports increased last year three percent
25 compared to 2000, seven percent compared to 1999. No

1 question imports have been an important part of supply and
2 demand growth.

3 The first quarter of 2002 imports were down 20
4 percent from year ago quarter as gas prices fell well below
5 \$3. Imports will come at the right price. Okay? This
6 isn't Chicken Little. The sky's not falling. But we're out
7 of \$2 gas. We're out of \$2.50. And I would argue we're
8 almost out of \$3 gas. Specifically for this region the
9 question is what about the Gulf of Mexico? Okay, we heard
10 earlier some forecasts that the deep water may be a source
11 of gas.

12 When we look at the Gulf of Mexico, a thousand
13 feet is the water depth where we consider, a 1,000 feet or
14 deeper is deep water. The shallow shelf is 1,000 feet or
15 shallower. The Gulf of Mexico shelf has declined from 13
16 BCF a day of production to 10.5 BCF a day of production from
17 1997 to last year. Deep water has increased, it has offset
18 many of those; it's offset much of the decline that we've
19 seen on the shelf. You have to remember though, deep
20 water's an oily providence. The shallow Gulf of Mexico
21 shelf is gas rich.

22 On a barrel of oil equivalent basis, for every
23 barrel of oil produced on the shelf, there's three barrels
24 of oil equivalent of gas. In the deep water, for every
25 barrel of oil produced there's half of barrel of oil

1 equivalent of gas. It is a oil rich providence. If I'm
2 building gas fired power generation, I'm not betting that
3 there's going to be a lot of gas found in the deep water,
4 okay?

5 Where are we going to be in the Gulf of Mexico in
6 2005? Shelf production should decline from ten and-a-half
7 BCF a day currently to eight BCF a day. That's
8 conservative, in my opinion. Deep water will grow from the
9 current three BCF a day to slightly over four BCF a day by
10 2005. That is based on currently identified projects using
11 a relatively conservative decline rate for the existing
12 production.

13 You add those numbers up, the Gulf of Mexico
14 production will decline in aggregate at least a BCF a day or
15 close to ten percent from now to 2005. Okay? So, where are
16 we going to get the gas? Open up the eastern Gulf of
17 Mexico, put some rigs out there to drill or look forward to
18 seeing L & G tankers coming in to the Gulf coast and east
19 coast of the United States. There is a lot of gas in Alaska
20 in the Canadian arctic. That pipeline, best case, is 20
21 billion dollars, 2010 before that's into the Chicago market.

22 These are not easy questions. They're not really
23 attractive answers. But when we sit here and talk about the
24 growth in gas demand, the fundamental question I think needs
25 to be raised, how are you going to supply it. Thank you.

1 MR. MILES: Thank you very much, Mr. Pursell.
2 Our next speaker is Toi Anderson, Manager of Project
3 Development Southern Markets for the Williams Gas Pipeline.

4 MS. ANDERSON: Thank you very much. Am I on?

5 MR. MILES: Turn, it should be on.

6 MS. ANDERSON: Hello?

7 MR. MILES: Yes.

8 MS. ANDERSON: Okay, I'm on now.

9 MR. MILES: Move it closer. Just bring it closer
10 to you.

11 MS. ANDERSON: All right. Good morning. I'm
12 very pleased to be here. I'd like to thank the Commission
13 for hosting this meeting. And I'd also like to thank
14 everybody in the room for being here. It's a great
15 opportunity to put all pieces of the solution in one place.

16 I just have two slides and up until David's
17 comments, I was very, very pleased about everything that
18 everyone said. You know, when you prepare slides you want
19 to make sure that the story you tell compliments everyone
20 else's story. I want to talk a little bit about the markets
21 we serve. What I have to say is very evident and it's
22 already been said by previous speakers, including Jeff. I
23 represent to day all of the pipeline companies in the
24 southeast. I work for Williams but I think all of the
25 pipelines have done an outstanding job as far as adding

1 additional capacity. As far as the markets that we serve,
2 it's very evident that our growth has been power generation.
3 We've also had growth, as far as our residential and
4 commercial customers are concerned.

5 My last point that I want to make for this slide
6 is that in the pipeline expansion projects that we've had,
7 our customers have stepped up for long term contracts and I
8 think that's really important. When your building
9 incremental capacity that you have a long term commitment
10 for the power plants that are being built. So, we've
11 enjoyed the fact that parties have stepped up for contracts.
12 And my range, when I say long term, is ten to 20 years.

13 The commitment that we've made so far, there's a
14 great story to tell as far as the history is concerned. But
15 there's an even better story to tell as far as what we've
16 done for 2000 to date. For 2000 to date, we've added quite
17 a bit of capacity. We've added approximately two BCF to the
18 market in transportation capacity. When I say we, again,
19 that's the entire pipeline industry. And when you look at
20 what we're doing for 2003, we're going to add an additional
21 1.5 BCF as far as capacity is concerned.

22 Looking at the projects, and this does not
23 include open seasons that have been announced. These are
24 projects that have been filed with the FERC. And so there's
25 a wealth of capacity that's being added for, if you look at

1 the open seasons that have been announced. We're going to
2 add an addition 2.5 between 2003 and looking at 2005.

3 Now, David did have some comments about, you
4 know, if you're looking at power generation, where do you
5 get the gas from? And I think that's a very realistic
6 question but I also think that there is a good story. I
7 don't have the story myself but I think in past
8 presentations that I've heard, one particularly from EIA is
9 that there is an optimistic view as far as getting natural
10 gas to serve these power plans.

11 So, I want to encourage and also get to take the
12 opportunity to thank the power generation market. I think
13 natural gas is a good answer to providing our energy growth.
14 And I think that, if you look at some of the studies that
15 have been presented, as I said EIA in particular, that there
16 is opportunity.

17 I also believe that there, you know, what he's
18 saying is true. There has been a lot of drilling activities
19 and you haven't seen the results that you would expect from
20 that drilling. But I do think that LNG, I don't have the
21 numbers of all of the LNG projects, but I do think that is
22 going to be a short term solution.

23 So those are my comments and I look forward to
24 answering any questions. Thank you.

25 MR. MILES: Thank you, Ms. Anderson. Our last

1 speaker is George Grey, Vice President System Optimization
2 for Sequent Energy Management. Mr. Grey?

3 MR. GREY: Good morning. Before I get into my
4 prepared presentation, I wanted to just say Sequent is
5 representing, we're owned by AJLR and we're representing the
6 local distribution company, Contingant, as part of the mix
7 in this energy infrastructure forum.

8 Excuse me. Before I go into the main section of my opening
9 remarks, I'd like to talk a little bit about the
10 infrastructure issues on a macro level, some of the gas
11 issues.

12 First, natural gas infrastructure development, as
13 Toi alluded to, has been very significant at the interstate
14 pipeline level. That's our view. Also, in addition to that
15 supply source, existing interstate and local infrastructure
16 designed for winter peak loads does provide significant
17 additional capacity to serve summer peak loads for
18 electricity generation. That being said, summer load
19 factors are tightening somewhat as further power development
20 takes place.

21 Third, further infrastructure is needed to
22 accommodate LNG growth. And this has been talked about a
23 little bit on the panel this morning. Movement of LNG
24 source supplies from the east coast to end points is
25 complicated greatly by lack of infrastructure and also by

1 existing LDC long term contractual commitments.

2 Finally, the regulatory process complicates LDC
3 participation in a lot of these infrastructure development.
4 And also capacity additions and capacity restructuring are
5 complicated as well.

6 Okay, this last point leads to my, I guess the
7 main point of my discussion, which is the LDC regulatory
8 interface. The first question I'd like to address is how
9 are the LDC's infrastructure needs faring under current PUC
10 supervision? The answer depends on your perspective. From
11 an LDC perspective, it is often difficult to participate
12 pro-actively in expansions under current regulatory
13 guidelines. As a result most of the recent infrastructure
14 development has occurred directly between the major
15 interstate pipelines and independent power producers. In
16 the southeast a large percentage of the expansions have been
17 supported by new power load only.

18 Regulatory approve cycles often limit LDC
19 participation due to timing constraints. This often results
20 in capacity coming on stream without LDC support. When LDC
21 capacity is needed at a later date, these service expansions
22 are often smaller, a little bit less efficient and more
23 expensive than those needs based on, you know, overall
24 regional needs.

25 The PUC's focus can be short term and impacted by

1 political time tables as opposed to the long term
2 requirements needed for new infrastructure. Providers in
3 infrastructure are driven by investment cost criteria which
4 have very long, 15 year, time horizons. And a lot of time
5 that's not consistent with, you know, the term of service.

6 Also, in deregulated gas markets where the LDC
7 shares or does not participate in the sales function,
8 marketer serving incremental load with currently available
9 infrastructure. The needs of the marketers are often
10 localized and fragmented while the LDC view is system wide.
11 System wide improvements often need the support from
12 regulators to be added to firm rate base. These
13 opportunities need incentives to create win win scenarios to
14 further develop infrastructure. This is especially true
15 because the LDC retains the obligation to serve all
16 customers despite the fact that many of the retailer
17 customers being served are not their own.

18 Additionally, consideration of the economic
19 tradeoffs relating to infrastructure costs has often met
20 with regulatory resistance, both distribution system
21 upgrades required to maintain service and new capacity
22 additions must be considered together on a total cost basis
23 to properly evaluate the economics.

24 Lastly, in some regions power loads are
25 encouraged to bypass the LDC. The LDC has little or no

1 incentive to serve using existing utility assets under
2 disproportionate revenue sharing arrangements.

3 Given all these potential difficulties, how
4 should PUC's revise or alter their regulatory approach to
5 take into account development of LDC's infrastructure needs?

6 I think first they should capitalize and find ways to
7 provide incentives to LDC's to use their infrastructure more
8 effectively. Under the current framework LDC's see
9 potential devaluation of their summer capacity while being
10 required to obtain winter peaking on a margin.

11 Secondly, modification of regulations to consider
12 the realities of current business and commercial practices
13 would be helpful. Regulatory consideration of economic
14 tradeoffs is one area in need of special attention.

15 Finally, the greatest need is to provide more freedom to
16 pro-actively manage LDC capacity needs. This would include
17 freedom to participate in business ventures which help
18 develop new infrastructure as well as work with existing
19 providers on a more proactive basis.

20 Thank you.

21 MR. MILES: Okay, thank you, Mr. Grey. And the
22 last few remaining moments that we have, I'd like to follow
23 up with something that Mr. Boston raised. You talked about
24 reliability. Reliability to pass and it was always assured.
25 Reliability in the future, you don't have the same level of

1 comfort. And have Mr. Newman talk about that and see if
2 there's some way we can, you know, integrated that with the
3 gas part of it. Is there a connection between the two? Is
4 it simply an electric problem or is there also a related gas
5 issue involved?

6 MR. BOSTON: Let me start off with --

7 MR. MILES: Microphone? Can you keep the
8 microphones on back there?

9 MR. BOSTON: Hello?

10 MR. MILES: Hello. They're on.

11 MR. BOSTON: Let me expand just a little bit on
12 what Bill was saying. If you look at the nation as a whole,
13 and especially the eastern interconnection, the lost of 765
14 line segment, normally the Bakerbroadferd that comes up out
15 of Com Ed all the way down to Virginia, the last segment is
16 the largest contingency in the eastern interconnection for
17 the electric system and is the most probable cause of a
18 voltage collapse.

19 If you look at the alignment of generators along
20 the gas pipeline infrastructure with no storage on the
21 ground, the Board of Directors, and I was at the last NERC
22 Board meeting, the Board of Directors of NERC has instructed
23 the Reliability Assessment Subcommittee to try to evaluate
24 the impact of a lose of a single pipeline in the nation.

25 The most likely one to cause problems is the one

1 that Bill referred to that comes right up through south of
2 Birmingham to Atlanta up the east coast. There is so much
3 generation aligned with that pipeline. We're very concerned
4 of what could happen if there was an interruption of gas
5 supply on that line.

6 So, that's kind of where we are. Let me turn it
7 over to Bill about the concentration of megawatts.

8 MR. NEWMAN: I agree with Terry. The mike is
9 working? I agree with Terry that there is some concern for
10 reliability. And it's in a couple of areas particularly the
11 event he related earlier where I think we were marginally,
12 we as an industry, were marginally able to control the
13 electric system. And without the information that's been
14 provided through electronic tagging and so on, I don't know
15 what you've done, Terry. We faced the same thing in 1996.
16 You didn't have those tools. Had we faced a tougher
17 version, it would have been a real mess.

18 So, some steps have been taken to handle that.
19 But the reason I mentioned earlier in my comment about RTO's
20 operating the electric system within their bounds, you can
21 send all the economic signals you want to. You can build a
22 plant wherever they want to build and try to build all the
23 transmission system you can. But that physics that Terry
24 talked about has to be on it and in real time. The operator
25 needs to be able to manage that system. It was near out of

1 hand in this particular case. And he had, those operators
2 had the freedom to operate. So, I'm concerned about that.

3 But I have to assume the RTO's will be able to
4 operate the electric system. Do you need to build more
5 transmission for reliability? Terry's case is clear. In
6 our region, three billion dollars over five years. Yes, you
7 do.

8 The bigger question I think's been addressed
9 here, do you need to build super highway system Terry's
10 talking about to exchange large amounts of power and
11 essentially eliminate congestion for all hours of the year.
12 I'm editorializing a little bit but I've heard comments that
13 led me to believe that there's a lot folks that support
14 that. My answer to that is clearly not.

15 Concentration of generation, when you have all
16 the generation in one place, and I mentioned that in my
17 talk. Would like to elaborate a little bit. It is clearly
18 not the most reliable way to run a system. It is just not.
19 Put it all at the well heads, you've got big problems. You
20 could have one tornado, and we have lots of those in our
21 area, take out two or three major transmission lines. You
22 could have a lose of a pipeline. And if you lose a
23 pipeline, Terry mentioned, that was a very high contingency,
24 I mean, a high risk contingency.

25 So, distribute the generation, provide the

1 pipelines and I hope somebody's building some coal, some
2 coal fired units or a way to store natural gas. Just in
3 time delivery for natural gas plus just in time delivery for
4 electricity when one depends on the other, it gives you a
5 double contingency right there.

6 MR. MILES: Commissioner Massey, you had a
7 question. Could you keep all the microphones on? All of
8 them on please?

9 MR. MASSEY: I'm on now?

10 MR. MILES: Yes.

11 MR. MASSEY: Oh, I am. Aren't you guys making a
12 case for a large southeastern RTO that covers TVA, the
13 Southern Company and others that can plan for the whole
14 region and take into, that is not controlled by merchant
15 interest and that can plan for the entire region and make
16 decisions and recommendations about the infrastructure for
17 the entire Southeast Region and not have a fragmented
18 planning process? I mean, you seem to be making a good case
19 the vertical integrated utility does a good job of planning.
20 But if we move to a market based environment, isn't an RTO
21 planning process that actually works that covers a large
22 region a good solution?

23 MR. NEWMAN: Mr. Massey, I think that's a
24 conclusion you could come to pretty easily. Whether it's
25 one that involves TVA and all the utilities in the southeast

1 or whether it's two or three or whatever. The key issue
2 there is planning, the coordination of planning. In the
3 days past, which we bemoan now about not having
4 coordination, we had major construction between our
5 utilities for seasonal exchanges of power and reliability
6 and so on. Is it optimized? Maybe, maybe not. I
7 understand your point about could you do a better job if you
8 coordinate? Well, do you need three RTO's to coordinate or
9 can you do with the existing structure? That question's
10 left to be debated.

11 I think it hasn't been a terrible mess at this
12 point. I can point to major ties, the ones before Florida
13 and Georgia and the ones between us and the ones between TVA
14 and Entergy. It does seem, though, that you would have a
15 better coordination of that planning if you had a few
16 entities that did all of that.

17 It does not address at all the question of
18 generators not seeing locational signals. It doesn't touch
19 that unless an RTO dictates where they're going to locate.
20 And if he can't dictate, then he needs to at least be able
21 to say if he locates somewhere very unwise, and I have no
22 merchant interest involved in this, I'm the RTO, you need to
23 pay some more money. I'm not going to load that on the
24 customers in this area just because it's a convenient way to
25 make rates, just to average it all out.

1 So, I think even if you go that far, you know
2 we're working hard to form a RTO in our region. It's very
3 large in fact.

4 MR. MILES: Right. I wish I could make that
5 point. I actually agree with you on, I agree with you on
6 the funding question.

7 MR. BOSTON: Let me make a point to add what Bill
8 is saying here. The problem that we've talked about has
9 occurred since the 1999 -- It's generators that are already
10 on the ground. The ground is level. The iron is sitting
11 there. An RTO helping send price signals is not going to
12 resolve that problem. It's going to take hard assets. We
13 operated our system, we were hearing earlier about Florida.
14 We operated our system last year at 99.99 percent reliable.
15 That's an average interruption time of six minutes and only
16 had two TLR's.

17 So, we have had coordinated planning through the
18 VST committees and in the southeast. I think your report
19 was very clear that designing a market that can be
20 standardized will help solve these problems. The investment
21 in transmission, in '96 if you had lots of transmission
22 capacity, a strong robust transmission system, people
23 schedule non-firm and you have to refund the revenues at the
24 end of the year. If you have a weak transmission system
25 with lots of bottlenecks, people schedule firm and you get

1 to keep the money at the end of the year. So the problem is
2 getting the pricing signals so that transmission
3 infrastructure can be built.

4 MR. MILES: On the gas side, am I hearing that
5 the pipelines are saying that, we're there. We can handle
6 it and we're doing a great job? But for the well part of
7 it, it looks like more needs to be done or not enough is
8 being done in order to meet the needs of the electric
9 system? Is that --

10 MR. PURSELL: Yeah, I think so. You heard the
11 guys earlier from the EIA say the gas prices won't until
12 2012. I'm looking at, I called in and my screen is telling
13 me today we have \$3.70 natural gas. The calendar year
14 stripped is four bucks. I think we're there. I'm afraid to
15 know what the price will do when it rises in 2012. I mean,
16 the market pricing signals are telling you they're just
17 sitting in the gas deliverability out there to meet the
18 growing demand.

19 And what you're going to end up doing is pricing
20 out industrial demand. Okay? The market is going to price
21 out demand and the -- electricity prices and higher heating
22 prices. And that's going to knock industrial demand to
23 Trinidad and the middle east and the far east. I mean,
24 that's, the reality is, if you can't grow supply, you can't
25 fuel the demand. The market pricing signals are responding

1 to that.

2 MR. MILES: Mr. Revell, you have a comment?

3 MR. REVELL: Rick, there's another chapter in
4 this book on transition to change. And I see a couple of
5 speakers on the afternoon panel but it, but I'm compelled to
6 make the point here. On the environmental question, we have
7 to be very careful in which ever model we go to, one or
8 three RTO's in the southeast or ISO's or whatever. The
9 Florida incumbents have 95 lobbyists registered in
10 Tallahassee to protect their interest, to try to keep a
11 stable industry, to get environmental permits and all of
12 those kind of things.

13 The Sierra Club has gone wild in America. The
14 Autobahn Society, whom I work with very close, have gone
15 wild in Florida. They just announced their against all
16 roads. That we have 50 billion dollar back log but they're
17 against roads. Well, they're against everything we're
18 talking about. So, we need to be very careful with the
19 Public Service Commission in Florida, at least, linking up
20 with you folks when we build these new models in which ever
21 technique, we're going to need 995 lobbyists in 11 states to
22 get a permit for any of these generation or transmission
23 facility. And if you don't have that local clout, it'll bog
24 everything down.

25 The Sierra Club will shut down everything we're

1 talking about. So, let's be sure on the afternoon panel and
2 maybe a specialty seminar some day we talk about the
3 environmental impact question. They have told me, I'm an
4 environmentalist. I have a home in the Florida Keys. We
5 raised our kids in the woods and the water and all of that
6 kind of stuff. But they have told me they will lie, cheat
7 and steal to get their ways.

8 MR. MILES: Mr. Boston --

9 MR. NEWMAN: They're lawyers, aren't they? Mr.
10 Moderator, may I ask a question, please?

11 MR. MILES: Let me go back to Mr. Boston then
12 we'll get to you, sir.

13 MR. NEWMAN: Okay.

14 MR. BOSTON: I said and took notes carefully as
15 David talked. He scared the heck out of me on the \$4
16 natural gas in the ground. There's 200 years of \$1.50 hole
17 in the ground that's getting six percent more efficient
18 every year. 92 percent of the nation's new generation is
19 all natural gas. 92 percent, nuclear is wrong. 92 percent
20 gas is wrong. 92 percent solar is wrong. We've got to get
21 a diverse fuel supply for the nation's generation if we're
22 going to have a reliable grid.

23 MR. MILES: Commissioner?

24 MR. CALLAHAN: Walter, I think you made a great
25 point and I'm glad you said what you did because I was, had

1 something on my mind. Bill, and please understand I'm
2 taking the Devil's advocate side here. You know I'm a
3 strong proponent of participate funding. But economics
4 doesn't solve all our problems because what sometimes makes
5 economic sense is not necessarily in the public good. And
6 what is necessarily in the public good does not always make
7 economic sense.

8 So, my question to you, would it not be better to
9 have, when you take in you've got to have gas infrastructure
10 pipelines, you've got to have transmission and you've got to
11 have generation. And we all agree that it's sited in the
12 right place. But maybe sending economic signals is not the
13 best way to site it. Maybe the best way to site it is
14 having this RTO plan everything, much like we do in our
15 integrated monopoly right now. And say if you're a power
16 market, if you want to come in this region, bring us your
17 plans on where you want to put your plant. And if it goes
18 into our grand scheme and we think it's in the public good,
19 then we're going to socialize all these, all these costs are
20 going to be socialized because it's for the public good.
21 And if you build and we approve your site, then you can go
22 there because it's for the public good and we'll go with
23 that.

24 If you chose to go another place, then you've got
25 to pick up the tab because we don't think it's in the social

1 good. At that point you're on your own because you're
2 making an economic decision that's not going to benefit this
3 region but you think it's going to benefit your company for
4 whatever reason. And that's your business. It's your
5 business, you do what you've got to do.

6 Would that not be a better structure to do this
7 because, number one, that would take care of a lot of
8 deciding, designing. It would ensure public benefits. It
9 would ensure other concerns such as environmental concerns
10 and other issues that may raise their heads. It would give
11 all of a sudden a regional wide planning aspect to make sure
12 we don't have guys going out and putting all the plants in
13 north Mississippi when all the power's needed in central
14 Florida. Just what's your thoughts on that?

15 MR. NEWMAN: I know most of the things and I've
16 gone over several of them. I talk too much. But I can get
17 really enthusiastic about doing exactly what you said. And
18 I made an assumption, hoped I get to elaborate on it. I
19 made an assumption that the states would still be involved
20 and there would be things for regions within a state that
21 people would push for.

22 One is some fuel diversity. You may feel a
23 responsibility for making sure you have security of energy
24 in that area. Economics is the thing that we have of a
25 common language. So we throw economics out. But I would

1 have assumed all along that every state commission would
2 have a strong voice in what that RTO did, including all the
3 things you mentioned, still talking primarily about
4 economics.

5 But I have to go back to what Walter said. If
6 you think the opposition is tough to building a transmission
7 line where you see a definite need, I wonder how tough it's
8 going to be when you go out and build one that you've not
9 demonstrated that that's near the optimum and serves that
10 purpose you're talking about. I'm not sure that I even have
11 my heart and going one that I can't point to, and I've tried
12 to do this many times, that I can't point to and saying it
13 serves some good purpose that I can predict that I can
14 anticipate and it's more than just short run marginal cost
15 economics.

16 I agree with you. You didn't say anything I
17 didn't agree with.

18 MR. CALLAHAN: And I agree and that's why I say,
19 that's why if you look at participant funding in a skeptical
20 kind of way, that's where it falls short because participant
21 funding says if you've got the money we'll build the line
22 regardless of whether it's for the public good or whatever.
23 If you take it into the grand scheme of things and say we're
24 going to socialize everything but we're going to make sure
25 that everything we build is going to benefit this region and

1 the folks in this region. And if you chose not to go to our
2 master plan for whatever reason, then you're on your own and
3 you've got to pick up the tab.

4 MR. MILES: Chairman Wood, did you have a
5 question?

6 MR. WOOD: I do, I actually had a different one
7 but I'm going to ask Michael. But don't you, as the siting
8 authority in the state, have the right to say that line
9 ain't going to work for whatever reason?

10 CALLAHAN: All states are not created equal. In
11 Mississippi we have, we are the alpha and the omega when it
12 comes to siting and generation and transmission in the
13 state. In some states, and I think Alabama, Jim Sullivan
14 said you've got county commissions deciding when and where
15 to put power plants. And they have no idea of the giant
16 scheme of the region or how it's going to affect anything
17 else. They're looking at tax basis, revenues and job. And
18 Arkansas, Sandy just said, nobody decides.

19 So, as you go from state to state, it varies. In
20 Louisiana, they're like us. They decide. So the problem is
21 in states like Louisiana and Mississippi you do have the
22 Commission looking at that. But when you break this out and
23 we no longer have the monopoly, we don't know, I mean, these
24 guys come for us to build a plant. They don't know where
25 the electricity's going. They don't have any firm contract.

1 What are we going to say? All right, unless you
2 have a firm contract and can tell us where this power is
3 going to go for the next 20 years, no more plants. You
4 know, I don't think these guys want that to happen. I
5 certainly don't want that to happen. So, I mean, you know,
6 again, and I'm kind of going back to the way I thought
7 because I am a big proponent of participant funding. But I
8 don't think participant funding is the solve all to all our
9 problems when it comes to RTO's. There's a lot of issues
10 about RTO's and about transmission infrastructure.

11 And I agree with Walter. I don't care, we could
12 have billions of dollars and we can have green lights and
13 everything. I think environmentalists and other folks are
14 going to fight us. It may not be possible to build
15 transmissions. I know my chief of staff was on a commission
16 in 1980 when Mississippi Power put the 500 KV line through
17 south Mississippi. And I can assure you there's a whole lot
18 more people now in south Mississippi than what was there
19 then and it caused a blood bath.

20 And I think as you start to do that, when you
21 start taking people's land and you start building a 500 KV
22 line that may or may not cause health problems and other
23 things, you're going to have fights on your hands. And
24 they're going to go to their congressmen and their senators
25 and their state representatives and their state senators and

1 their governors and it's going to be a mess.

2 That's why we've got to have some kind of; you
3 know, it is great to sit here and talk about all the
4 problems. It is good that we're talking about all the
5 problems. But like Walter said, we've got to come up with
6 some answers. It's going to be difficult, extremely.

7 MR. WOOD: Let me follow up with one because what
8 Terry was saying about, and I read an earlier draft of the
9 DOE Transmission Study that came out yesterday and I wish we
10 could have had copies here for everybody, but they did talk
11 a lot about the use of new technology to already optimize
12 what we've got and use the existing rights a way, and Terry
13 you mentioned some of that. And I'm looking forward to
14 sitting on your side here and getting educated more.

15 But what are the financial obstacles? And I know
16 TVA's probably got a little bit easier run on getting rate
17 recoveries than maybe Southern does. But take a IOU and a
18 government transmission entity. Talk to me about what is
19 lacking in the current over-arching regulatory and other
20 infrastructure to incent you guys to really test the waters
21 on all the new technology.

22 MR. PURSELL: Let me touch on it a little bit.
23 There are three uncertainties, I guess, that came out of the
24 de-integration planning between transmission and generation
25 of the curb in 1996. And I disagree with Eric Hearse. I

1 call it the disintegration of planning between transmission
2 and generation. With the generations all siding along the
3 Gulf state region and there are some states that are easier
4 to decide in; Mississippi and Louisiana, for example. The
5 environmental concerns that you have on siting generation.
6 There's more megawatts going in to Mississippi than there
7 are catfish in Mississippi.

8 So, if you look at the overall flow of power,
9 it's got to move to the north where there's more population
10 centers. And the line that we have, for example, inter-
11 tying us and Entergy, there's only one 500 KV line through
12 the center of the state. It will not overload and sag to
13 the ground. It will sublime if all the generation in those
14 states come on at the same time. So, we're going to have to
15 find ways to move power longer distances.

16 The work that we've done so far, we think to move
17 power long distances, as Tom Edison first said, was the best
18 idea is DC. And we're looking very hard at HBDC on existing
19 rights of way and power electronics. We built the first FAX
20 device, Flexible AC Transmission device in the world on our
21 system. And we're looking at that. It will not give us a
22 hundred percent reserve margin in the transmission system.
23 It will incrementally be evolutionary, not revolutionary.
24 But it will take long haul transmission and using existing
25 rights of way because it's going to be too tough to say

1 we're going to build a 600 mile new line because people
2 located, they're generation along the Gulf coast.

3 MR. NEWMAN: I think Terry's answer is great.
4 The thing that would, right now would incent us to make
5 major investment in some of the new technology is just for
6 it to be cost effective. If it's not cost effective and
7 you're building a line somewhere that you could build a
8 traditional technology at a lower cost, who is that's going
9 to want to step up to pay for the additional cost?

10 However, there is a solid state device. It's
11 test and true that we're looking at now that could increase
12 the ability to handle large amounts of generation in one
13 particular area of our system that, at this point, is
14 oversubscribed. And it looks like it'll be a good solution.
15 There are places where those things look good.

16 By the way, I think Southern is probably the
17 biggest single funder of Effery and they have lots of
18 research projects on. I don't follow all of them but we are
19 interested in technology and the things that you can do to
20 increase the existing paths. Now, there is a limit to that
21 at some point. If the past today is capable of handling
22 3,000 megawatts, and that might be two 500 KV lines on the
23 same right away, you're exposure to lose of that means that
24 you must plan for something else to back that up. So it's
25 not free lunch but it may be the only lunch we get is to use

1 those existing rights of way and to expand them
2 considerably. So we are interested.

3 One other point that Terry made, though, that he
4 and I differ a little on. And he's operated the system
5 longer than I have. And that is the issue of lots of
6 generation here and expect load to be there. And he's
7 right, the lines will sublime. That means they melt
8 instantly, engineering term, I think. But the thing is,
9 RTO's or whoever's operating the system had best not let
10 that happen. That's a control issue. That's a real time
11 issue. So regardless of what's sitting on the ground and
12 what we planned in the economics, if that happens, the
13 system's out of control anyway.

14 So I have a little less concern about that but I
15 know he's sitting in the middle and he has a lot more
16 concern for it because I think he's expecting that at times
17 that may actually occur.

18 MR. PURSELL: Let me add one comment to Pat
19 Wood's question. We are meeting with American Super
20 Conductor and it's a pipe dream but could we pull an --DC to
21 gigawatt super-conducting cable through an abandoned
22 pipeline. For example, where FERC has the right of imminent
23 domain for long haul right of way? So that might be a
24 solution. It would be, it's far out there. It's not going
25 to happen in the next three years as these generators come

1 on. But it is something that we're working with American
2 Super Conductor.

3 MR. MILES: Well, with that why don't we take our
4 break, the panelists and everybody. And we'll be back at
5 2:00 o'clock. Thank you.

6 (Off the record.)

7 MR. MILES: Take your seats, please. Okay,
8 welcome back. We're going to begin the second panel. And
9 the panel is going to discuss identifying factors effecting
10 the adequate energy infrastructure investment and
11 alternative actions. Some of the questions that we've asked
12 them to address include why is needed infrastructure delayed
13 or not being built, what barriers have to be overcome, what
14 can state and federal governments do to overcome these
15 barriers, what planning process changes would you recommend
16 to address these issues and do alternatives exist to new
17 infrastructure projects.

18 We've asked the speakers to try and keep their
19 opening remarks to five minutes. And if they succeed in my
20 suggestions, my job ends right now because we really want
21 this to be an engaging conversation and that's what I've
22 asked them to do. If there's more than one panelist that
23 wants to speak, I'll recognize that but you don't need me to
24 be recognized in order to engage in conversation after the
25 presentation.

1 And I think with that we'll start with our first
2 panelist. His name is Frank Gallaher. He's the President
3 and also Operations and Transmissions for Entergy. Frank?

4 MR. GALLAHER: Thank you, Rick. Mr. Chairman,
5 Commissioners, I want to thank you for the opportunity for
6 allowing me to bring Entergy's viewpoint to this important
7 discussion. This is probably one of the most critical
8 issues that is facing the entire industry, and that is the
9 expansion and the funding of the infrastructure for this
10 industry. And I believe that answering the questions that
11 you have posed is fundamental to the policy debate that is
12 occurring in Congress and at the federal and state level as
13 well as the RTO's are being developed.

14 And with respect to the first question, why is
15 needed infrastructure delayed or not being built, I believe
16 we first have to identify the infrastructure that we're
17 talking about. Based on what we have heard during earlier
18 panels and based on the fact that generation within the
19 Entergy service territory is projected to almost double over
20 the next few years. That is going from approximately 22,000
21 megawatts to 42,000 megawatts.

22 It appears, as Bill Newman has already indicated,
23 that there is ample generation being built around the
24 southeast. But when it comes to transmission there are
25 really two types of infrastructure improvements. And I

1 think these have been touched on as well. There are those
2 transmission improvements that are necessary to continue to
3 reliably serve the load that is located on the transmission
4 system. And then there are the transmission improvements
5 that are desirable from an economic standpoint for a market
6 participant or a group of market participants.

7 Generally, I think that you will find that the
8 transmission and related infrastructure needed to reliably
9 serve the load is being built. But these reliability
10 projects are not really the ones that are -- in all the
11 debates. The debate revolves around the second category of
12 transmission improvements. Those transmission enhancements
13 that an entity wants constructed to improve its own
14 economics. This includes investments to export power from
15 the area where the generation is being built to regions with
16 potentially higher prices.

17 For example, the transmission infrastructure
18 build out that will be necessary to move large amounts of
19 power from Entergy's region to other regions in order to
20 increase the price that the seller receives for the power or
21 to decrease the price paid by the load in the other region.
22 Now, Entergy has received hundreds of requests for
23 transmission service, to move power from its region to other
24 regions. However, to date, the entities making those
25 requests have been unwilling to pay the cost of the

1 transmission upgrades that are necessary to accommodate
2 these transfers. Instead they appear to want Entergy to
3 construct these upgrades and then roll the cost into
4 Entergy's existing transmission rate.

5 The cost of these potential transmission
6 facilities is not insignificant. In Entergy's control area,
7 we currently estimate that facilities to export even half of
8 the new generation will cost somewhere between two and four
9 billion dollars to construct. The real question becomes if
10 the parties that are requesting these transmission
11 expansions and that will benefit from them are not willing
12 to pay for them, are they really needed? -- the entity
13 causing cost to be incurred be allowed to shift those costs
14 to the other parties. And Entergy respectfully submits that
15 the answer is no.

16 Now with regard to the question of barriers, it
17 appears to me that barriers to the construction of
18 generation are less ownership than those on the transmission
19 side. Those transmission barriers include obtaining the
20 necessary permits and rights of way, EMF concerns as well as
21 aesthetic and environmental issues, organized opposition can
22 create both cost and scheduling risks. Now, presently
23 there's also a barrier associated with the fact that under
24 the Open Access Transmission Tariff there are not property
25 rights. The funding party is not necessarily provided the

1 benefits of the project that he funds.

2 Now these barriers will be exasperated if a
3 proposed transmission expansion project does not represent
4 the most economic alternative or if parties that do not
5 benefit from the project are required to fund it. And the
6 state and the federal regulatory agencies working together
7 can address many of these concerns in order to facilitate
8 transmission grid expansion.

9 But Mr. Chairman and Commissioners, let me be
10 clear that I feel we are at a fork in the road with RTO
11 pricing policy. We need to make the right choice on the
12 pricing policy for new expansion if we are going to reap the
13 benefits of wholesale competition. And there are three
14 alternatives. We can let generation locate anywhere and
15 just roll in the cost of upgrades. We can have the RTO
16 decide where to locate generation. What transmission to
17 build and who to charge for it. But in that case you have
18 to recognize that the RTO will be missing a key part of the
19 puzzle. And that is the generator economics. Or we can
20 send transparent price signals and let the market determine
21 where to locate and what transmission to build. I firmly
22 believe that the third option is the best. If not the only
23 choice, if you want the most efficient outcome and real
24 wholesale competition to flourish.

25 The Commission has started to head in the right

1 direction. Implementing a standard market design with an
2 LMP market structure and transmission rights is a critical
3 component in providing transparent price signals and
4 creating the type of property rights. But it only gets us
5 part of the way there. The Commission also needs to get the
6 pricing for the transmission upgrades right. The pricing
7 structure must insure that the cost of necessary
8 transmission upgrades are considered in generator siting
9 decisions and end resource acquisition decisions. The way
10 to ensure this is to require that those entities that will
11 benefit from the expansion project pay for that expansion.

12 And finally, facilitating a regional planning
13 process is a critical component to ensure the needs of all
14 market participants within the region and all options,
15 including demand side, are identified and addressed in an
16 efficient and economic manner. The broader more all
17 encompassing the plant and project is, the more likely it is
18 to result in the most economically efficient alternative
19 being identified, whether that, excuse me, whether that is
20 transmission, generation or the demand side alternatives.

21 Thank you, Rick.

22 MR. MILES: Thank you, Frank. Our next speaker
23 is John Boone, Senior Vice President for Gulf South Pipeline
24 Company. John?

25 MR. BOONE: Thank you, Rick. First of all I

1 would like to mention the natural gas industry. Sincerely
2 appreciates focused FERC split on the certification process
3 in the last two years. We feel in particular that pre-
4 certificate filing meetings have really improved the
5 process. And we look forward to working with FERC to
6 continue to improve that process.

7 In that regard, I'd like to talk about some of
8 the challenges we see the natural gas pipeline industry has
9 in developing new pipeline infrastructure in the southeast.
10 First of all, I'd like to talk about the difference between
11 the new customers that we intend to serve with new pipelines
12 today versus the current customers that built the current or
13 the existing grid. Basically, the new customers are
14 combined cycle power plants.

15 The customers that built or underwrote the
16 building of the current infrastructure were local
17 distribution companies. And these local distribution
18 companies were regulated. They signed firm contracts with
19 the pipeline for their expanded needs. They got those
20 contracts approved by their state utility commissions. And
21 they typically had very high credit ratings.

22 Today's new customer, the power plant developers,
23 are spending; well, first of all, they're unregulated and
24 they're spending a lot of money at risk to build these power
25 plants. And typically they're going to be limited liability

1 corporations whose credit is the plant itself. So there's
2 unique challenges we see serving that customer versus the
3 customer of the past.

4 Some of the needs, the needs that these new power
5 plant developers have include the lowest possible rates,
6 they need a higher pressure than the local distribution
7 companies needed. And they need date certain in terms of
8 first deliveries of natural gas.

9 And let me talk about a couple of those in more
10 detail. First rates. A power plant developer could not
11 afford to pay higher rates than another power plant in its
12 region. If they cannot get competitive transportation
13 rights, they're not going to build their plant. So, how
14 does a pipeline developer provide economic efficient rates?
15 We need to do that to have a scaled project, proper scale.
16 It's going to have to be of size that we can get an
17 efficient rate to provide the natural gas deliveries for
18 that power plant.

19 How do we get that scale? Well, we're going to
20 have to build some capacity at risk. A pipeline developer
21 cannot build a large scale pipeline and have a hundred
22 percent of the capacity sold with firm demand charges from
23 the initial start up of the project. They're going to have
24 to build some of that capacity if it won't be contracted for
25 with the anticipation that they'll be able to sell new

1 demand down the road.

2 The problem we have today with that is that
3 interstate pipelines have to sell uncontracted for capacity
4 at cost base rates on an interruptable basis. So, if a
5 pipeline developer comes in, builds a pipeline and half of
6 the capacity's unsold, any new market can come in and get
7 commodity, cost base rates for that unused capacity. And it
8 has no incentive to sign up for long term firm capacity.
9 This, we feel, will prevent the pipeline developers from
10 going forward with the project.

11 Second is equally important as efficient rates is
12 date certain natural gas deliveries. The power plants that
13 are being built cannot afford to have six months to 12
14 months delays in their natural gas deliveries. That type of
15 delay in a project like that can just destroy the economics
16 of the power plant. New power plant misses its first summer
17 of deliveries, it'll never catch up in terms of the economic
18 returns they expected to have.

19 So, if they can't be certain of when the natural
20 gas will be delivered to the power plant, they're not going
21 to build it. And we feel it's very important for the
22 pipeline industry and the FERC to deliver the message that
23 pipelines can be built on a date certain basis and natural
24 gas deliveries can be made to meet the needs of these new
25 power plants.

1 Any large gas pipeline project has the potential
2 and probably will have some entrenched landowners that are
3 not going to allow the pipeline to proceed. And we feel
4 it's important in those situations for FERC to grant
5 certificates so that the pipeline can use the right of
6 imminent domain to acquire the rights to build the pipeline.
7 With that we feel we can be of a much more certain date of
8 when that pipe can be in the ground. We can successfully
9 contract with the new power plant. And its vital
10 infrastructure can get built.

11 So, in summary, the two things that we think are
12 vital to pipeline development in the southeast and the
13 pipeline development is needed to provide clean and
14 efficient power to the southeast, we need to have some
15 flexibility with our rate making and we need to have the
16 ability to use or to have date certain deliveries for the
17 new power plants.

18 Thank you.

19 MR. MILES: Thank you, John. Our next speaker is
20 Hamilton Buck Oven. He's the administrator for the Site and
21 Coordination Office with the Florida Department of
22 Environmental Protection.

23 MR. OVEN: Thank you. Since I'm the might say
24 the lone environmental regulator on this group, got a few
25 things to cover. In the State of Florida in the last four

1 years we have permitted just a little under 18,000 megawatts
2 of generating capacity. We are reviewing now another 8,600
3 megawatts of generating capacity. So, we are in the process
4 of permitting power plants.

5 Now, I'm not sure all of them will be built.

6 There is a barrier to wholesale competition in the State of
7 Florida in the Florida statutes. In the Duke New Saburnim
8 Beach case, the Florida Supreme Court held that unless you
9 have retail customers, you can't be an applicant and get a
10 need determination from the Florida Public Service
11 Commission. And without that need determination you can't
12 utilize the Power Plant Siting Act which applies to any
13 steam electric facilities 75 megawatts or larger.

14 Now, independent power producers can build as
15 much peaking capacity as they want because that's outside of
16 the Power Plant Siting Act. But how much peaking capacity
17 can you actually market. So, although people have permitted
18 those type of facilities, well, not that I can build one
19 with something else again. In some cases they are posturing
20 themselves with a lot of peaking capacity and minimal 74.9
21 megawatts or less steam combined cycle capacity and hopeful
22 that they can get a contract with a Florida utility and
23 therefore ramp up and go combine cycle. There's a lot of
24 that out there.

25 There's also an impediment minor but in the

1 Transmission Line Siting Act that would initially hamstring
2 an RTO. And that an RTO in and of itself right now could
3 not be an applicant under the Transmission Line Siting Act
4 because they aren't defined as a utility. I think that's
5 something that's very curable but that is something the
6 Legislature would have to address. However, an RTO, if and
7 when formed, could come in as a co-applicant with a Florida
8 utility and go through the process that way. That is a
9 minor impediment here in the State of Florida.

10 Gas pipelines, we do have an intrastate natural
11 gas pipeline siting act which my office administers. It's
12 only been used partially once. We were about two thirds the
13 way through the project, getting it pretty successfully, but
14 the main corporate client backed out and the project went
15 belly up.

16 The Gulf Stream pipeline has been permitted.
17 It's well under construction. In fact, it's just been about
18 completed. But one thing we've learned from Gulf Stream and
19 previous efforts from Florida Gas Transmission is you
20 pipeline companies, you better look at your contracts for
21 your contractor. You better exercise institutional control
22 because we filed an injunction to stop construction on
23 Florida Gas.

24 And we came very close to doing that with Gulf
25 Stream because of environmental noncompliance because you

1 had a contractor that went out and did what they wanted to
2 do, when they wanted to do it and where they wanted to do
3 it. And we didn't care for the pollutions of the water
4 bodies that was going on. And we have taken some
5 enforcement action. And I think, you know, there's a right
6 way and a wrong way to do it. If you do it the way the
7 permit's written, no problem. We'll work with you. That,
8 in and of itself, is what we can do here in Florida.

9 One thing that the Florida utilities have learned
10 and some of the gas pipeline companies may have learned is
11 an advanced work with local communities and public interest
12 groups is well worth the time spent in avoiding problems in
13 the environmental permitting phrase. I won't say it's quite
14 as bad as Walter Revell indicated out in the Sierra Club
15 being able to stop projects. But somehow the controversial
16 projects can be and have been stopped in the State of
17 Florida especially since the final determining body, the
18 Siting Board, whether it's power plant, transmission line or
19 gas pipeline siting board is the governor in cabinet.

20 They are an elective body and as elected
21 politicians they are sensitive to public interest. And in
22 some cases, especially the very notorious FBL or --
23 Diversion Project, which we thought environmentally was
24 pretty good, was highly controversial and it got denied
25 because it was not in the public interest even though it

1 might have saved the Florida power and light rate payers
2 quite a bit of money. And environmentally, it would have
3 been an improvement over what they've got there. But I say
4 it was unpopular.

5 There was also one transmission line that got
6 initially denied before the Supreme Court reversed it.
7 Again because of the extreme controversial nature of that
8 transmission line. We have not had any real big ones under
9 that permitting since then. They will be coming. And the
10 EMF is a big bugaboo or scare tactic that people will use
11 even though they really don't want the thing in the back
12 yard.

13 Speaking of transmission lines and capacity here
14 in Florida, I note that back in the early '90's to mid
15 '90's, the Florida Public Service Commission had a docket
16 encouraging a west coast 500 KV line in the State of
17 Florida. And both Florida Power and Light and Florida Power
18 Corp. are actually looking at that particular line. And
19 then I think one of them backed out because they were afraid
20 what deregulation might do and who's going to pay for
21 capacity on that line. And unfortunately, the lines died
22 and I think it was a mistake. They should have permitted
23 them because Florida growing, the longer you wait the harder
24 it is to put in a line or a power plant or a gas pipeline.

25 MR. MILES: Thank you, Buck. Our next speaker is

1 Gini Cooper. She's the Chair person for the Floyd Unified
2 Landowners Association.

3 MS. COOPER: Well, I'd like to express my
4 appreciation for being invited and being able to voice
5 Landowners concerns. My question is how can landowner
6 objection to facility siting be accommodated while still
7 meeting the objective of constructing necessary
8 infrastructure additions. And hopefully in my talk you'll
9 find a solution.

10 A holy man and his disciples were traveling and
11 came across a village at war with an army. A disciple asked
12 his master, should we stop and help? And his master
13 replied, yes. The holy man, to which; sorry. The disciple
14 then asked, which side should we help? And the master
15 responded, to both. And I started with this parable because
16 it exemplifies my belief that it's necessary to work with
17 the industry as well as with landowners in order to change
18 the current dynamics between landowners and the industry.

19 My experience began with this industry as an
20 impacted landowner. I then later became the Chairman of
21 this group. And we're addressing a 30 inch gas transmission
22 line that's bisecting our county. This project is unique in
23 that it's the first to use the experimental need of pre-
24 filing process. And this, we were explained, is intended to
25 increase early landowner involvement in order to mitigate

1 the impact on the environment and the community.

2 We agree with this goal and we think that this is
3 the answer. However, we've had some problems with the
4 process. My goal today, though, is to provide you with the
5 information about some of the causes of landowner objection,
6 to identify how the company's approach can actually increase
7 that resistance and objection, and to offer a solution that
8 can remedy the pre-filing process so that it can become a
9 win win situation for both landowners and the company.

10 When landowners discover that a utility is going
11 to cross their property, they experience a deep sense of
12 lose and it's not only for the land but also for the lose of
13 control over their lives. This sense of lose is especially
14 deep in the Appalachian culture where land and a sense of
15 place is probably the primary value in our culture.

16 Another cultural value is reciprocity.
17 Reciprocity means that you give what you take. When the
18 pipeline is impacting our lives, it's not just the lose of
19 something, it's the lose of our identity. And what I've
20 observed is that grief is the natural response to lose. So,
21 landowners enter into a grieving process and there are
22 certain stages that you go through. And it begins with
23 denial. It moves to anger, bargaining, depression and
24 finally acceptance.

25 Now, people can move through these stages in a

1 linear or cyclical fashion to actually process the grief or
2 they can become stuck in one cycle. And if they become
3 stuck in a cycle, it usually extends the cycle indefinitely.
4 For landowners this cycle is typically anger because anger
5 provides a sense of control, it produces feelings of
6 vulnerability and the overwhelming sadness that comes in a
7 lose. But anger is often a trigger and it will project
8 collective angers, meaning that the company will receive
9 anger about multiple issues, not just the pipeline.

10 It also leads to black and white thinking and
11 emotional reactivity. And this is not only detrimental to
12 the project, but it's detrimental to the community. I've
13 seen my community split in half and that's what pulled me
14 into forming the Landowner Committee, just to heal my
15 community.

16 I've observed that it's an approach that a
17 company takes towards a community that feeds and reinforces
18 this tendency to become stuck in anger. When a company is
19 unresponsive to landowners' request for information, when it
20 does not ensure that landowners participate in the process
21 and when tactics such as lying, stonewalling, intimidation
22 are used the landowners become angrier about their treatment
23 by the company than they are about the project. This has
24 been the case in my community. And additionally pre-filing
25 has quickened the process. And that has reduced the

1 potential for landowners to actually become involved.

2 The pre-filing manual outlines a number of
3 actions that both the company and landowners can take to
4 improve the level of participation. But the pre-filing
5 process as it now stands does not mandate that the company
6 use those actions or follow those procedures. Company
7 representatives have told us repeatedly they don't have to
8 do these things. We have requested to participate in
9 studies. We've requested maps for properties. We've
10 requested correspondence between the agencies and the
11 company. And these have been denied because they aren't
12 required to provide them for us.

13 So we have concluded that the only way the pre-
14 filing process is going to be successful and realizing the
15 intent to improve stake holder involvement is to mandate the
16 actions and the approach that a company uses during the pre-
17 filing period. When I spoke last month at pre-filing
18 workshop I learned of the mutual gains model developed by
19 Lawrence Seskine.

20 It's based on early landowner involvement,
21 sharing of information, participation in decision making and
22 honest communication. These are the needs that landowners
23 have in order to understand the process and move through the
24 grief cycle into acceptance. And if you don't have that
25 acceptance, you get stuck in anger and you get this

1 emotional reactivity and I think several people have
2 mentioned how it can become a big barrier.

3 The elements of Seskine's model are similar to
4 the actions outlined in the pre-filing manual. Both have a
5 goal of achieving consensus among all involved parties in
6 order to collaboratively develop a project plan that will
7 reduce harmful impact to the land and to the communities as
8 much as possible. He cautions, however, that it's necessary
9 to use all elements of the model in order to realize his
10 benefits. We saw the importance of this in our community
11 because we had some meetings and we did have some site
12 visits. But it was not enough to build the trust and to
13 ensure our participation.

14 A genuine commitment to the pre-filing process
15 and this model would have made honesty and trust building a
16 priority in the company's interaction with landowners.
17 Unfortunately, they appear to be following what I've heard
18 referred to as the old model. And this model creates and
19 feeds the very resistance that you're hoping to avoid. I'm
20 not sure why this hasn't been more evident to people but
21 I've been very heartened to learn that there is a growing
22 movement in the industry to use this new model of business
23 that's based on improving landowner participation and it
24 more closely follows the mutual gains approach.

25 In conclusion, I would ask of FERC that you

1 mandate the use of the pre-filing manual guidelines and the
2 mutual gains model before using the pre-filing process in
3 the future. I believe that early and full participation by
4 landowners using such a model is the only way you can
5 transform landowners from being a barrier to being an
6 important participant in the siting process.

7 I would ask of the industry and of Inga that you
8 look closely at your approach towards landowners and
9 incorporate the mutual gains model on a corporate level as
10 El Paso Gas is now doing. The world has become an angrier
11 place and we have to find a way to address conflict without
12 adding to that anger. I hope that my comments will
13 challenge assumptions and open the door to a new model of
14 collaboration.

15 MR. MILES: Thank you, Gini. Our next speaker is
16 richard Roos-Collins. He's the Director for Dispute
17 Resolution at the Natural Heritage Institute.

18 MR. COLLINS: Thank you, Rick. Mr. Chair,
19 Commissioners, thank you for this opportunity to provide my
20 perspective today in this conference. I'm here on behalf of
21 the Hydro Power Form Coalition which is an association of
22 conservation groups involved in the licensing of hydro power
23 projects including Alabama Rivers and also the South
24 Carolina Conservation League.

25 I have three recommendations in response to the

1 question put to me, which is how to integrate environmental
2 concerns into the planning process for the energy
3 infrastructure. First, you should understand and treat
4 environmental improvement as a desired result not just a
5 concern or a legal constraint. Your own studies as well as
6 those by other federal agencies demonstrate that the
7 environmental benefits associated with our energy
8 infrastructure could be improved and the cost could be
9 reduced over the course of the next generation if the market
10 rules are structured properly.

11 Certainly our experience with hydro power
12 licensing has confirmed this hope. The licenses that this
13 Commission has issued over the past five years have
14 substantially improved environmental quality at minimal cost
15 to the energy system. What can you do specifically? Assure
16 that the standard market design is non-discriminatory with
17 respect to renewable resources, demand side resources in
18 distributed generations and also improve the method which
19 you currently use to address the cumulative impacts of
20 energy infrastructure decisions. Plainly those impacts
21 cross jurisdictional boundaries.

22 Second, you should assure accountability for the
23 actual results of your decisions. Now, you currently have a
24 strategic plan and you also have an annual report that
25 evaluates results under that strategic plan. You do this in

1 compliance with the Governed Performance and Results Act.
2 It's a good start. And what I'm describing takes that good
3 start and adds measurable objectives for the results that
4 you intend to achieve in the energy market. And then over
5 time, contract whether those results are actually achieved.

6 You can do that across the regional boundaries
7 since our energy system is, of course, national. And then
8 the regional organizations that you are seeking to establish
9 could do the same at the regional level.

10 Let me underscore, I am not recommending
11 centralized planning. Instead I'm recommending the
12 regulatory equivalent of a business plan where you predict
13 the results you intend to achieve and then you evaluate
14 honestly whether you've achieved them. And if you haven't,
15 you consider whether alternative strategies would be more
16 effective.

17 At the Northeast Infrastructure Conference,
18 Commissioner Massey, you commented that regional planning
19 process is essential. You said, I struggle with how
20 specific should it be. My answer is very specific. The
21 planning process should result in measurable objectives so
22 that you can actually determine whether you succeed. And
23 then Mr. Chair and Commissioner Brownell you both commented
24 that information is nice but information has to be
25 translated into action. And that's precisely why any plan

1 that you adopt must then be tracked over time to assure that
2 the actions are successful.

3 My third recommendation follows on Gini's. And
4 that is that your procedures should be collaborative as a
5 matter of course and contested only as the exception to the
6 rule. Let me begin first with your relationship with the
7 states. You recently established a Division of State
8 Relations and you also established a Federal State Forums
9 anticipatory to the Regional Transmission organizations.
10 Again, good starts.

11 You need to go further and include or develop
12 memoranda of understanding with the RTO's and the public
13 service or the public utility organizations as well as the
14 environmental regulators to assure that you have working
15 relationships that minimize the transaction cost and
16 maximize the public benefits.

17 Collaboration also occurs as importantly between
18 the applicants and effective stake holders. And here let me
19 underscore that inertia is the biggest threat to the success
20 of such a collaborative procedure. Such a procedure must be
21 structured to succeed beginning with a mutual commitment by
22 all stake holders to try to reach a result which serves as
23 mutual gains and will be the basis for any needed regulatory
24 decisions. And beyond that you need to schedule and you
25 need drafting procedures that assure that the negotiations

1 are more than a talking society but actually produce an
2 agreement that you can then use for the purpose of
3 regulatory decisions.

4 One of the earlier panelists commented that the
5 environmental community will lie, cheat and steal even
6 taking into account the rhetorical flourish that was
7 intended. I respectfully submit that's a tired and helpful
8 as well as inaccurate stereotype. And I would say the same
9 if the stereotype were used with respect to any industry or
10 other constituency involved in the development of the energy
11 infrastructure. And of course that's precisely what
12 collaborative procedure is all about. It's about
13 establishing mutual trust sufficient to make decisions.

14 Let me close with a plea for continued
15 innovation. You're holding this workshop as well as the
16 prior workshops in the northeast and the northwest show that
17 you are committed to learning from experience. And I think
18 that is precisely the right attitude. I want to underscore
19 by telling a historical story from actually California where
20 one of the first hydro power projects sited west of the
21 Mississippi was built to serve a mine at the town of Body in
22 1880. They built the line, the project, and then ran a
23 straight line from the project to the mine because they were
24 certain that the electricity would otherwise jump off the
25 line and not reach the mine itself.

1 I think that many of the things that we know
2 today will prove to be equally primitive as time goes by.
3 It essential that we continue to learn from experience so
4 that we can truly improve this energy infrastructure. Thank
5 you.

6 MR. MILES: Thank you, Richard. Our next speaker
7 is Christine Tezak. She's the Electricity Analysis for the
8 Washington Research Group for the Schwab Capital Markets.

9 MS. TEZAK: Good afternoon. Thank you,
10 Commissioners, for your invitation and thank you also to the
11 state representatives who have made time to come and listen
12 to us. We really do appreciate this opportunity.

13 What I do is I follow how Washington regulation,
14 politics and legislation impact the electric utility sector.
15 My clients specifically are managers of what's called
16 institutional money or mutual funds that any of you and
17 ironically many of your customers happen to hold. And we're
18 a segment of the capital markets that many of you may not be
19 familiar with. And I was delighted that we had not only the
20 investment banking side represented but also what is viewed
21 as the classic shareholder at the institutional level.

22 What I would like to do today is share with you
23 some of the feedback that I get from that particular
24 constituency. They're often called upon to hold the stocks
25 and bonds of existing companies whether they're members of

1 the IPP group or whether they're members of the more
2 classical utility environment like Entergy and Southern and
3 the other companies that you're fortunate to have down here
4 in your area.

5 Why is infrastructure, needed infrastructure
6 delayed or not being built? Well, according to most
7 institutional investors there is transmission being built.
8 It just tends to have the tendency to be within existing
9 service territories and for native load and is often
10 successfully permitted and incorporated into tariffs. It's
11 the intra or interregional transmission recovery that has
12 become so uncertain, particularly in the eyes of
13 institutional investors.

14 And it's the fact that there is no clear revenue
15 stream. I.e., what will be the tariff? Who will it be
16 collected from and on what proportion? That's unclear.
17 Therefore, I think there are very few utilities and I think
18 Entergy could agree with this or the gentleman from
19 Southern, it's really hard to go and tell your investor base
20 that you're going to put several billion dollars worth of
21 iron in the ground when you don't know how you're going to
22 pay for it.

23 And that's simply not so much what you're going
24 to charge but where the revenue stream comes from and how
25 it's going to be collected. Unfortunately, that is the

1 legacy of the 1992 Environmental Policy Act, which it began
2 the transition to unregulated wholesale markets. And it's
3 not so much in my view that any company has done anything
4 deliberate to not do that. It's simply the incentives and
5 the alignments that began beginning in 1992 didn't foster
6 that as the most efficient internal investment for a
7 company.

8 So, what barriers need to be overcome? In the
9 view of investors, clarity on tariffs under the new order
10 would do a lot to substantially boost their confidence
11 particularly in investing in transmission. A lot has been
12 made, and I've been asked a lot about why Wall Street wants
13 to see a 13 percent or higher return on investment for
14 transmission. And I sure understand your confusion. It's
15 not like we're building something new or that it's
16 different.

17 However, I will tell you it's coming from this
18 lack of availability of information on how the tariff's
19 going to be structured, when it will be place. We're still
20 in the developmental phase of are we going to regional
21 tariffs or not. Are they going to be localized? Are they
22 going to post stamped? Are they going to be license plate?
23 In all honesty, Wall Street doesn't really care because
24 there's an appetite for different levels of risk. If you
25 have very socialized, quick recovery, you'll get cheaper

1 money. If you have more performance based incentive, long
2 recovery times, it will be more expensive. But you have an
3 offset that perhaps that will drive more efficient
4 investing.

5 It's not so much that there's an approach that
6 should be dictated for any reason. It's simply the fact
7 that decisions have not yet been made. And in this, at this
8 point I think that there is an opportunity for PUC's to
9 actively contribute to recovering the confidence that
10 investors would like to see in the sector. And that is by
11 being clear in your message as to what is the service that
12 needs to be delivered to your base and what you would like
13 to see being captured in that.

14 And this is difficult because federal and state
15 governments do have different priorities and it is a
16 challenge to work together to define the goals. But one
17 thing I noticed on the earlier panels, when we had the
18 exchange particularly with Mr. Kimmelman from Goldman Sachs,
19 is that if volatility that is something politically
20 unacceptable to you, there are options in between a fully
21 regulated monopoly and an unfettered market.

22 There are programs like Installed Capacity.
23 There are programs for capacity payments. Clear prudence
24 criteria could do a lot, would have done a lot in California
25 if market participants believed that they could contract on

1 a long term basis. Or prudence criterias that would
2 encourage the adoption and installation of innovate
3 technologies.

4 The planning and process changes that I've
5 discussed with my clients that they would like to see is
6 something that they find themselves guilty of themselves.
7 And that is the conflict between short term demands and long
8 term realities. There's not an investor I speak to that
9 doesn't tell me that he invests for the long term. But when
10 I get up to get out of the room, every one of them wants to
11 know what he should buy in the next 90 days.

12 State utility commissioners are often under a
13 very similar sort of strange incentive program in the fact
14 that they're called upon to make very long term decisions
15 but they would like to also be able to deliver something
16 constructive to their constituencies to show that they've
17 done something for them on their behalf in the short time
18 that they have spent in that particular role in public
19 service.

20 It's difficult. It's risky and it requires
21 leadership to step up and make a decision, especially when
22 you might not be able to be around long enough to take the
23 credit for it. But as I said, this is something that even
24 the investor base I speak to would say that they are equally
25 guilty of.

1 The RTO planning process, I think, you know,
2 offers a lot of alternatives to incorporate widespread
3 decision making not only in the wiser siting of generation
4 and transmission but also to more fully integrate, as Mr.
5 Collins suggested, what environmental impacts really cost to
6 the system as a whole. One thing I think would also be
7 useful in the planning process is to focus on the long term
8 as far as what's the greatest bang we can deliver to the
9 customer for the buck as opposed to how big is the rate we
10 can deliver next week.

11 And do alternatives exist to infrastructure
12 projects? I would say the thing that comes up most often in
13 discussion with investors is why isn't there more demand
14 side management. If there's elasticity in the demand curve,
15 then that's something that will really harness the ability
16 of businesses to run away with your market. And that's a
17 challenge and one that is probably best served by people
18 like you at the state level. And that is education. One of
19 the things that the gentleman earlier spoke about is the
20 absence of a good understanding among a lot of consumers for
21 what their energy marketplace is.

22 FERC can do a lot of outreach. But there's
23 nothing that they will be able to accomplish that will come
24 close to what you have the opportunity to do since your face
25 that is more familiar to the customers. And so those are

1 the two things that I would say that my investors would
2 offer to you as steps along the way, certainly not a
3 comprehensive solution. But things that they would see and
4 recognize as contributing to a more positive instead of
5 negative investment climate.

6 MR. MILES: Thank you, Christine. Our next
7 speaker is John Rohrbach. He is the Senior Engagement
8 Manager for Navigant Consulting.

9 MR. ROHRBACH: Thank you very much. I'd like to
10 say hello to the state commission. I've worked at three
11 state commissions. I understand where you come from. My
12 remarks, briefly; put up the first slide, thank you, touch
13 on a couple of topics. I looked at NERC's planned
14 investment for the southeast region including Texas, and I
15 also left Texas out because I didn't have data to complete
16 the study.

17 But basically if I look at the region, NERC shows
18 about two billion dollars in investment plant for this
19 decade. Now, I understand the gentleman from Southern had a
20 little higher number. That's fine. We can assume that
21 these numbers go up. Say, it's really four billion. How
22 much do we really need for the region on transmission
23 investment?

24 All right, put the next slide up. My friend Eric
25 Hurston at Oak Ridge, he's formally at Oak Ridge, he wrote a

1 paper for EEI two years ago. He basically estimated that
2 there's roughly 56 billion needed in the U.S. for replacing
3 obsolete and worn out transmissions lines as well as meeting
4 future demand over the next year, the next 10 years. So, I
5 tried to apportion this to the southeast. And I used two
6 methods. I use the ratio of circuit miles in the southeast,
7 CERT and FRCC specifically, compared to circuit miles in the
8 U.S. 230 and above. And I also used the ratio of retail
9 rates, bundled retailed rates in the southeast compared to
10 total retail expenditures in the U.S.

11 Using both of those methodologies, I roughly came
12 up with eight billion of needed expenditures in
13 transmission, 230 JB and above can be replacement of
14 existing line and obsolesce and wear and tear and
15 retirement. And that I needed roughly 11 billion to meet
16 growing demand in this decade. So, if we assume we're at
17 four billion in planned transmission investment, there's a
18 few billion dollars that has to come from somewhere.

19 Again, some of that could be met by, you know,
20 better management if the Arcio comes into place. Maybe
21 we're getting more efficient with our use of our
22 transmission lines, and I believe we are. But you have to
23 ask the question, what would happen if we really needed to
24 make this investment. And this is just to meet growing
25 demand. This is not to get beyond that. So, assuming we

1 have to invest several billion dollars in the southeast over
2 the next decade, what does that impact?

3 Well, if we don't have any growth in consumption,
4 it's less than a five percent bundled rate rolled up impact
5 over the decade. That's a gradual rate increase over the
6 decade. I would submit that is a first step, given what
7 we've seen with generation roll out where CERC also, I'm
8 sorry, NERC also deposits that there's possibly roughly
9 200,000 megawatts at least in various stages of design or
10 planning and thought in the southeast. That's a hundred
11 billion dollars of potential desired investment. Of course,
12 not all of it will be built. Not even close to that.

13 But if there's a hundred billion dollars that
14 people have at least, you know, thought about and have
15 submitted plans to invest in the southeastern generation,
16 truly over a decade or more, maybe 15 years, we can invest a
17 ten billion in the southeast and including Texas roughly 18
18 billion. I understand Texas has a new model. I would urge
19 the state regulators to look at where they appropriately
20 deal at the ERCOT level with new pressure transmission. I
21 think that's a good model to look at.

22 And the only thing I'd close with is what is the
23 cost of not doing this? I think what we've seen is that
24 there's an acetous impact of not doing things ahead of time,
25 especially in electricity. And especially with

1 transmission. You may not see the impact now. It may get
2 swept under the rug but some day it'll rear up. And given
3 the long lead times for building new transmission, I would
4 exhort all the parties in this room to at least earnestly,
5 as Richard says, deal with the facts. And I believe the
6 facts do suggest that there's a need for a significant
7 investment in transmission.

8 The only other thing I'd add is I think
9 historically as people have, EEI has studied this, we're
10 really in the position of catch. Up for years there's been
11 a decline of investment according to different ratios in the
12 industry. So, it is border line crisis and I'd urge our
13 attention on that.

14 MR. MILES: Thank you, John. Our next and last
15 panelist is Steven Gilliland, a Senior Vice President for
16 Asset Management, Duke Energy. Steve?

17 MR. GILLILAND: Thanks. It's great to be here.
18 It's nice to have the opportunity to address the
19 commissioners and the audience as well.

20 The speaker this morning, Mr. Kimmelman, said
21 that the industry is at a crossroads. I believe that to be
22 true. Truly the structure of the industry is cyclical by
23 its nature and by the types of designs that are coming in
24 here. This is a pretty deep troth and I want to give you
25 some Dukes statistics, most of which, hopefully all of which

1 are made public. If not, I'll hear about later.

2 In the next 60 days Duke is going to put 11
3 plants into commercial operation aggregating about four
4 billion in investment. This is just the unregulated power
5 generation piece which is in the unit I'm in, that I'm
6 talking about here. 6,700 megawatts; about a quarter of
7 that is in the southeast. For next summer, seven more
8 projects, three billion of investment and another 4,300
9 megawatts. At this time we should be putting into
10 construction that level of projects or whatever level of
11 projects we're going to put in for the 04 summer in service.

12 Anybody want to have a guess on how many we're
13 starting? Zero. So, here you have a situation where you
14 start at four, you go to three, you go to zero. We're not
15 the only ones that are concerned about the environment, the
16 business environment that's being created. Uncertainty
17 drives up the cost of capital. It drives away capital. And
18 anybody who thinks that this industry is not competing on a
19 worldwide basis with capital for other industries; for
20 consumer goods, for hamburgers, for hard goods is sadly
21 mistaken.

22 What do the providers of capital want? And let's
23 talk about the providers of equity capital as one segment
24 and the providers of debt capital as another segment.
25 Providers of debt capital want the timely repayment of

1 principle and interest. They want it when the borrower
2 agreed to paid it at the amount that the borrower agreed to
3 pay with a very high probably of payment. What's high
4 probability? 99 percent plus. They don't want to have as
5 much as one percent in arrears. That's what debt providers
6 want.

7 Can they take their money and put it into debt
8 instruments in other industries? You bet. People did that
9 today. I don't know who they were but today somebody
10 sitting in an office somewhere, maybe, Christine, somebody
11 in your office looked at all the places that suppliers of
12 capital who wanted to invest it in debt instruments could
13 place that capital. They looked at our industry and they
14 said, no thanks. It's not time now. I'm going somewhere
15 else.

16 How about equity providers? Equity providers
17 have the same choice and while Duke fortunately has been
18 amongst the best in the group, there are a lot of folks in
19 this industry that are down 80, 90, 95 percent from a year,
20 year and-a-half ago. And that's not, in my opinion, totally
21 because their creation of a business model that doesn't
22 work. It's because -- the story that they are selling is
23 not as attractive of a story as the story that exists in
24 some other industry, in some other country, in some other
25 currency.

1 And money which is the most fungible of
2 commodities disappears. It disappears overnight. It goes
3 to other industries regardless of FERC's ability or desire
4 to stay in this industry. It goes there regardless of
5 company management's desire to have it stay in this
6 industry. It goes where it thinks it can get the highest
7 return. And we should never lose sight of that. That's a
8 fundamentally important thing.

9 There's no free lunch. So, the rules and
10 regulations that are created collectively by all market
11 participants either attract capital or they drive capital
12 away. And if we drive capital away, there just won't be any
13 capital for investment at the level of which prior speakers
14 have discussed. There won't be any capital to fund the
15 investments that are required. And I don't think that any
16 of us want to see the lights go out and see the cost be
17 driven up.

18 Let me see. I would say, in preparation for this
19 I polled about a dozen bankers with whom Duke has a
20 relationship. And there was one thought that came out very
21 clearly. And it was a feeling by those lenders in
22 particular, and it's also my feeling as an equity
23 participant, that the economic upside in this industry is
24 currently viewed as being capped and that the downside is
25 viewed as being unlimited. And that's not a good economic

1 bargain. And part of it's probably the industry's fault.
2 Some of it's probably not the industry's fault. We need to
3 repair that. We need to fix that.

4 The industry equity providers are not saying
5 that, at least this one is not saying that we have to have
6 any type of a guaranteed return. There are risks that we
7 have proven. We are very capable of evaluating, one of
8 which I would just throw out being the relationship between
9 supply and demand from the retail and wholesale customer
10 level. That's a risk that businesses that are in the
11 business like Duke is in can evaluate and can price
12 appropriately.

13 I'll conclude with a statement that I dug up.
14 It's now two years old and it came from Chairman Allen
15 Greenspan. And he was talking about financial meltdown in
16 the Asian marketplace but there's some segments of his
17 remarks that I thought were appropriate and applicable to us
18 today and I will read them.

19 Uncertainty and retrenchment have escalated. The
20 state of confidence so necessary to the functioning of any
21 economy has been torn asunder. Fears have become
22 contagious. It does not appear to have resulted wholly from
23 a measured judgment that financial forces have turned
24 appreciably more adverse, but it is more based on a visceral
25 engulfing fear. The onset of uncertainties that destroy

1 previous understandings of the way the world works. That
2 has induced massive disengagements of investors.

3 In all aspects of life, when confronted with
4 uncertainty, people tend to withdraw. Vicious cycles are
5 evidently emerging more often. For once they are triggered
6 damage control is difficult. Once the web of confidence
7 which supports the financial system is breached, it's
8 difficult to restore quickly. The lose of confidence that
9 one understands the dynamics of the systems of which we are
10 engaged can trigger rapid and disruptive changes in the
11 pattern of finance which, in turn, feed back on exchange
12 rates and asset prices.

13 At one point, the economic system appears stable.
14 The next it behaves as though the dam has reached a breaking
15 point. The more extended the risk taking or more generally
16 the lower the discount factors applied to future outcomes,
17 and again the speaker this morning addressed that, the more
18 vulnerable our markets to a shock that abruptly triggers a
19 revision in expectations of future needs and sets off a
20 vicious cycle of contraction of financial and product
21 markets.

22 We are in that cycle. We are deeply in it. We
23 should be concerned about it. And I think some of us in
24 this room have something, maybe all of us in this room have
25 some role to play in fixing that environment. And I would

1 urge us all to try to pursue that goal.

2 MR. MILES: Thank you. Steve, if I could suggest
3 two areas; it looks like I lost my; hold on a second. If I
4 can suggest two areas of discussion. One might include a
5 follow up to points made by Buck, Gini and Richard about the
6 collaborative process, advance work with community, pre-
7 filing process. And maybe, John, you can touch upon that.
8 How is the pipeline industry addressing that, if it is
9 addressing it at all? And then I think, Christine and
10 Steve, when you talked about certainty in financial market.
11 Frank, if you want to build a transmission line today, how
12 do you address the concerns that were just expressed by
13 Christine and Steve and earlier by this morning's speaker.

14 Who wants to go first?

15 MR. GALLAHER: Rick, I'll try it first. One of
16 the things that we have learned over the years is just what
17 has been articulated. It appears that when you are going to
18 build a transmission line, the first thing that you really
19 need to do is visit with the effected parties. And the
20 effected parties are the landowners, the regulatory
21 commission that has the jurisdiction over that particular
22 transmission line and anybody else that might be affected by
23 that, by that line. Environmental agencies and give those
24 people the background, what you're going to do, why you were
25 doing it and what the process is that you're going to follow

1 to receive input relative to how this is going to impact the
2 various stack holders.

3 And we found that by early involvement we are
4 able to mitigate the delays and cost increases as a result
5 of any organized opposition. An example that the Chairman
6 may be well familiar with is a project that we had in
7 Woodland, Texas, which is just north of Houston, where we
8 were going to build a 138 KV line through that residential
9 neighborhood to solve a local problem. And we were not as
10 diligent in getting up front input as we should have. And
11 soon there were thousands of bumper stickers that sprung up
12 that said, underground or go around. And we finally went
13 around. And after getting the input in determining that
14 route, that was the most effective route for all involved.
15 And if we had done that in the beginning we would have been
16 able to save a few months off of that project. Involving
17 affected entities early is the key to avoiding problems down
18 the road.

19 MR. MILES: John, did you have a comment on
20 remarks made by Buck, Gini and Richard?

21 MR. BOONE: Well, yes. We totally support the
22 pre-filing process, a collaborative approach to building
23 these projects. I mean, we use, I mean, we're out trying to
24 market a project right now in the southeast, a big pipeline
25 project. And what we tell our potential customers is the

1 way we're going to get this project approved in a timely
2 basis is by using that process. By getting way out in front
3 of the project, working with all the communities, all the
4 landowners, understand the problems and issues and address
5 them way ahead of the project. So, we do support that
6 process and we'll continue to support it.

7 You know, we don't understand, and Gini and I
8 were talking about this earlier, she can comment on this
9 better than I can because she's right in the middle of it,
10 why the current project that's using the pre-filing process
11 is not going the way you would think it would or is
12 anticipated and may not be speeding up the process right
13 now. But in general our company, and I think 99 percent of
14 the industry, supports that type of approach.

15 MS. COOPER: Well, what I can explain in our
16 community, I'm not, my understanding is that the pre-filing
17 did not start at the earlier stages of planning. So, it may
18 not really be a true, a true example of pre-filing. But
19 what hasn't worked for us is that it has not been
20 collaborative. We wanted to become involved. I think what
21 happened is there is a group in a neighboring community that
22 has turned into a hate group. They started another chapter
23 in our community. And I think there was some defensiveness
24 on the part of the company because of the reputation of that
25 one coalition.

1 What I think, where I think pre-filing, if it was
2 used according to the pre-filing manual or Order 608, if
3 collaboration had begun in the very, very beginning, the
4 early stages of the process with landowners, with the
5 community members, there would have been understanding of
6 what was going on. There would have been more acceptance
7 that this is needed and it's going to happen. I've learned
8 a lot just by attending these two workshops on the need
9 that's out there. Need is a very important thing to convey
10 to landowners because you're taking their property. And in
11 an agricultural area you're taking their livelihood.

12 Information is what moves people into a thinking
13 stage out of reaction. But I think that, I think there's,
14 there's some hesitancy on the part of companies to share
15 information and to help get the neighborhood or the
16 community organized for fear of this resistance. But my
17 belief is and what I've seen in my group, which we did end
18 up having to separate from the coalition because their
19 militancy.

20 But the more information that we've gotten, the
21 more able we've been able to work with the process. So, I
22 feel that if, if this process was begun very early on, what
23 I think it would do to contain that small element that does
24 become resistant and is not going to change their minds
25 because they've taken everything that the government has

1 ever done to them wrong, that their neighbors ever did to
2 them wrong and they've projected it onto this one project.

3 So, you're dealing with an almost irrational
4 level of anger. But if you start with the community in a, I
5 think Suskine in his book, "Dealing with an Angry Public",
6 he talks about having a community advisory board. Then you
7 would have other people who would balance that small
8 element. So, you might have actual elected officials in the
9 community or you might have a pastoral association. And
10 that's going to help counterbalance the small group that
11 could grow and become a fringe element. But you're going to
12 have to catch that early because once it starts they're very
13 difficult to stop.

14 MR. MILES: Steve, could I ask you a question?
15 On the financial end of it, is needed infrastructure being
16 delayed or not being built because of the concerns of the;
17 and Christine, maybe you can comment on it too, because of
18 the financial markets?

19 MR. GILLILAND: The banks are open for business
20 and all of them would tell you that. Since September, fees
21 have gone up, spreads have gone up. Terms and conditions
22 have gotten tougher. And most importantly, the sparks
23 spread or the economic value of, and I'm addressing
24 generation here, the spark spread and the economic value of
25 new generation has dramatically fallen. It is woeful

1 compared to where it was a year ago. And so while the doors
2 are open, the likelihood of essentially clearing the hurdle
3 rates is pretty dim.

4 On the electric side, I would say that the
5 problem, on the electric transmission side I would say that
6 the problem on the electric transmission side is that you
7 can't demonstrate to the providers of capital how they get
8 their money back. You just can't do it. It's like trying
9 to swim through mud with your eyes open.

10 MR. MILES: Okay, and maybe, Frank, you can
11 comment on that last observation before we wrap it up
12 because I thought you had indicated earlier that if you need
13 transmission lines for reliability you can do it but for
14 economic incentives it's more difficult. And then,
15 Christine, you can, did you have a comment?

16 MS. TEZAK: Yes.

17 MR. MILES: Go ahead, please.

18 MS. TEZAK: I have two now.

19 MR. MILES: Oh, you have two.

20 MS. TEZAK: Yes, first I wanted to follow up on
21 what Miss Cooper said about the collaborative process. One
22 of the things that when I'm explaining RTO's structures and
23 talking about RTO's structures with my investors, you know,
24 I've asked them, I said, would you be willing to exchange a
25 longer collaborative initial process for certainty over the

1 longer term? And in every occasion that I have spoken to as
2 a professional money manager, the answer has been a
3 resounding yes because they would far rather get the issues
4 that Miss Cooper and her neighbor's have on the table,
5 sorted out, worked out and not even contemplated lawsuits
6 and, God forbid, whether or not we need to have a domain in
7 an electric transmission.

8 So, I would say that the support of the
9 collaborative process by state and regional authorities is
10 something, another opportunity to help work against the fact
11 that we do have wider credit spreads, that we do have a
12 difficult economic situation for generation. We have the
13 easing of the economy, which is contributed to significantly
14 lower prices. And if it looks like there's a more rational
15 way to go through the process, whether it's for generation
16 siting or transmission siting, that's something that
17 incrementally will help moderate to a certain extent the
18 adverse impact that some other influences that the companies
19 in this industry deal with.

20 MR. MILES: Frank, do you have any comments on
21 that?

22 MR. GALLAHER: Well, I was just going to respond
23 to what you had asked about --

24 MR. MILES: Yes.

25 MR. GALLAHER: -- the difference between, why

1 it's more difficult for economic expansion than reliability
2 expansion. And the reason, we can justify expansions for
3 reliability purposes. We can go to our regulators, whoever
4 they may be for a particular project, and justify the cost
5 in order to be able to reliably serve our existing
6 customers. If indeed, though, we go to those regulators and
7 say we have an economic expansion, then the first thing that
8 we have to answer is who is reaping the economic benefits.
9 And then next question, are those who are reaping the
10 benefits paying for the cost of the expansion. And that is
11 where we run into a problem is that it seems everyone is
12 wanting to shift cost responsibility to some other party for
13 these kinds of infrastructure improvements.

14 MS. TEZAK: But even when it's clear who the
15 other party should be and there's willingness, there's still
16 that structural absence of how it gets picked up on the
17 regional side. That's where things like participant funding
18 and other proposals that are now being discussed would play
19 a role that could really dramatically change how companies
20 can move forward because it's filling that gap. If it's not
21 appropriate to go into local rate base because someone
22 else's benefit, then it's incumbent upon the regulators
23 because they're probably the best suited to do it is to
24 craft a tariff that bridges that gap.

25 MR. GALLAHER: And I absolutely agree with that

1 comment.

2 MR. ROHRBACH: And I would say, Frank, is that at
3 least there appears to be several billion still needed for
4 in region demand not just for export. I mean, that's what
5 I'm trying to reconcile what you're saying with numbers.
6 There appears to be several needed, what I call a quasi
7 reliability or some day reliability in a region that's not
8 being planned.

9 MR. GALLAHER: And I don't know, I'm not familiar
10 with the source of your data. But indeed, if outside of
11 Texas we need ten billion dollars of investment in the
12 southeast over the next decade, I suspect we'll have that in
13 the next five years.

14 MR. ROHRBACH: In transmission.

15 MR. GALLAHER: In transmission.

16 MR. MILES: Commissioner Massey?

17 MR. MASSEY: For Christine or Steve or whoever
18 else wants to respond, the FERC is proposing to standardize
19 wholesale market design across the nation. What will be the
20 impact if we're successful? What will be the impact of this
21 on investments?

22 MS. TEZAK: Well, I think incrementally it'll
23 make a huge difference because right now it seems to me that
24 there's, if there was more guidance and more information
25 available to the decision makers of the state level of what

1 works and what doesn't, it would facilitate their ability to
2 participate in rate design in a constructive matter in a way
3 that would support each region.

4 You know, there are differences between regions
5 and different parts of the country but there's a lot of
6 stuff that does work. And I think that what I've notice
7 investors are positive about when we talk about the RTO
8 program is going over the next year is that this ability to
9 take the things that are working and see how to enhance them
10 as opposed to recreating them from scratch is a time saver
11 both on looking at the amount of time it takes to site both
12 generation and transmission. And it also provides that sort
13 of stability that once there's a process that's in place,
14 then it's more likely that, you know, it will be recovered,
15 it will be managed in a way that contributes to both the
16 health of the companies and to the health of the communities
17 that they serve. So, I think incrementally it's something
18 that certainly the folks that I talk to are very positive
19 on.

20 MR. GILLILAND: Duke is a fan. Seek
21 transparency, set the rules, monitor compliance. Other than
22 that, stay out of the way.

23 MR. MILES: Okay. It's time for our break. Any
24 other questions? Comments? Anybody from the state or the
25 audience would like to ask a question?

1 MR. JAGTLANT: Rick, I have one question.

2 MR. MILES: Yes.

3 MR. JAGTLANT: Sanje Jagtlant from FERC Staff.

4 Is this on? Sanje Jagtlant from FERC staff. I had a
5 question about a point that you made, Mr. Oven. Did I
6 understand you correctly that independent generators without
7 retail customers can't participate in the RFP process in
8 Florida or at the very least that they're severely
9 disadvantaged in that process competing against the
10 incumbent utilities?

11 MR. OVEN: That's incorrect. Anybody can submit
12 a bid, I believe, to an RFP. And if it gets a successful
13 bid, then that utility would take that bid to the public
14 service commission and therefore establish the need. The
15 utility would establish the need for the independent because
16 the utility has the domestic customers. So, any independent
17 can bid and has bid. And, in fact, we have at least one
18 calpine that got contracts, got perimeters and was under
19 construction.

20 MR. JAGTLANT: How often has that been
21 successful?

22 MR. OVEN: Recently once although there are two,
23 when I say independent power things under operation, the
24 Indian Tagogian Project, the Cedar Bako Jet Project, which
25 was U.S. generating PJ & D or whatever you want to call

1 them. You have Reliant who has purchased an old power plant
2 from Atlanta Utility's Commission. You have re-powering
3 done at Lake Worth and another re-powering being done at
4 Fort Pierce, where you've got, you might say a combined
5 cycle with the steam going to an existing utility and the
6 excess capacity for sale in the open market. But these are
7 people who've come in around the edges.

8 MR. MILES: Okay, any other questions? If not, I
9 would ask that the state representatives be here about five
10 minutes of four where we begin the last panel for today.
11 Thank you very much. 15 minute break.

12 (Off the record.)

13 MR. MILES: Let's go ahead and get started.
14 We're going to start our last panel. And it will be a
15 discuss by state and federal officials. Next steps and
16 closing remarks by FERC Commissioners. And of course the
17 representatives from the states are welcomed to join in on
18 any time. I'll bring a microphone down there in case you
19 want to engage in a discussion.

20 And so why don't we start off with Commissioner
21 Baez, please.

22 MR. BAEZ: Thank you. Good afternoon. I want to
23 thank the FERC Commissioners for coming down to sunny
24 Florida. We hope the heat hasn't been too tough on you
25 although I'm sure you haven't had a chance to go outside too

1 much.

2 This part of the panel was listed as a discussion
3 of next steps and I guess, you know, judging from the
4 conversations or discussions that have gone on all day
5 today, I think that's pretty appropriate even though at some
6 point we're still trying to figure out what those next steps
7 are going to be.

8 I do want to start off by offering one. I have
9 some brief comments because I want the rest of the panel
10 really do the heavy lifting here. I also have the privilege
11 of serving as President of SEARUS. So, somehow I've got to
12 herd the southeastern cats, as they say. And it's been a
13 lot of fun so far. Back in the fall, under Chairman Jacobs
14 at the time, the Association decided to undertake some
15 infrastructure assessment. It's funny; we've heard those
16 words a lot today.

17 And it's just hot. It's hot off the press. It's
18 a southeastern infrastructure assessment. I want to thank
19 Jim Dean and Mark Portrel and Tom Ballinger from the Florida
20 staff as well as many other I'm sure I've already forgotten
21 for putting this together. But our Florida staff had a lot
22 to do with putting the report together along with
23 cooperation from the rest of the southeastern state staffs.

24 It is hot off the press. It will be shortly
25 available on the Florida Public Service Commission website

1 for anybody that does want to download it. I think we've
2 been able to provide some copies to the FERC Commissioners.
3 I'll give you a brief overview of it, some of the key points
4 and I think it's really relevant in light of some of the
5 comments we've heard especially this morning from the FERC
6 staff assessments.

7 One word comes to mind and that is antidotal.
8 Personally I don't think that antidotal is a word that
9 should be used necessarily when we're talking about projects
10 and futures of this kind of magnitude. So I would urge the
11 FERC staff to look at least what we all feel and have agreed
12 is the real picture of infrastructure in the state.

13 Based on that information, with respect to
14 generation adequacy in particular, our report indicates that
15 the incumbent utilities are going to be constructing enough
16 generation to maintain 15 percent reserve in the SERC Region
17 for the summer peak and in Florida, the FRCC control area in
18 particular, the report indicates that generation reserves
19 are going to be in excess of 20 percent in the summer
20 throughout this decade. I will add that at least in Florida
21 that 20 percent reserve margin is to some extent a mandate.
22 So, when we talk about our generation is going, whether
23 demand is outstripping capacity, as we heard earlier this
24 morning, I guess I would raise questions about that.

25 In addition to that, the generation figures that

1 are in the report are pretty conservative because they don't
2 have substantial megawatt capacity attributable to merchant
3 plants. As you heard Buck say earlier, we don't have, we've
4 got an interesting set of laws and regulatory frame works
5 that only allow committed capacity to actually be built in
6 the state. And for that reason we don't, even in our ten
7 year siting plans and our capacity projections into the
8 future, we don't count merchant capacity. And just as an
9 example, in Florida that counts for about 8,000 megawatts of
10 planned capacity. And I think I have one other number in
11 Mississippi, and Michael can correct me later as I'm sure he
12 will, that's 16,000 megawatts.

13 The adequacy of the transmission system is a
14 little bit more difficult to assess, admittedly. You heard
15 discussions about curtailment events. And I know that Ken
16 Wiley of FRCC stood up and corrected some of the information
17 or clarified some of the information. While curtailment of
18 non-firm transactions in the SERC region did increase
19 significantly to 30 events in 2000, for 1998 to 2000 only
20 one transmission loading relief occurred that curtailed firm
21 transmission service. No firm curtailments occurred in FRCC
22 Region.

23 FERC's own staff analysis dated December 19th,
24 2001, indicated that there were no major transmission
25 constrained areas for the summer of 2000 and 2001 within the

1 SERC or the FRCC subregions.

2 Finally, in combination SERC and the FRCC
3 indicate that they plan to add about seven percent more 230
4 KV or higher transmission lines for the period of 2000 to
5 2009. I'm not exactly sure how that fits into the two
6 billion in improvements that Mr. Rohrbach had mentioned
7 earlier but I'm sure the numbers may match.

8 In summary, I think we can say with confidence
9 that at this time, anyway, the generation infrastructure in
10 the southeast appears adequate to serve the existing and the
11 anticipated load for the foreseeable future. Second, the
12 transmission infrastructure is adequate to permit most
13 intra-regional, that's within the region, wholesale
14 transactions at this time.

15 What we don't know is the extent that the planned
16 transmission upgrades proposed in the SERC and FRCC will
17 permit future intra-regional commercial transfers or to
18 permit intra-regional transfers. And as we all know,
19 greater transfer capability is one of the objectives that
20 the FERC is encouraging in terms of ROT policy.

21 Now, I've got a couple of observations. We've
22 heard a number of speakers talk about what things need to be
23 done. And I'll share with you a couple of observations
24 about the construction of backbone transmission facilities
25 in the south in general and in Florida specifically. First,

1 there aren't any big differences between utilities in the
2 SERC Region. Coal and nuclear make up much of the embedded
3 generation. And most utilities happen to have both assets.

4 Admittedly Florida generally has higher
5 production cost due to its geographic isolation and higher
6 delivered fuel costs. We don't have natural resources in
7 Florida, natural fuel resources anyway. Because of this the
8 recent cost assessment that FERC put out, cost assessment of
9 RTO's, excuse me, indicated that Florida would be a
10 beneficiary under a competitive wholesale market.

11 At the time we commented to FERC that the RTO
12 assessment assumed that the transmission interface between
13 SERC and Florida could carry far more megawatts than
14 permitted under the rated contingency limits. And I think
15 you heard some discussion. Mr. Menis mentioned some of the
16 numbers earlier this morning.

17 In addition, our staff has done some preliminary
18 analysis to indicate the construction of backbone
19 transmission systems between Florida and Georgia. And it
20 turns out, no surprises, that it's nearly cost prohibitive
21 under any scenario. This is true because there's no, all
22 our load centers and if you take Georgia and Florida
23 together, the load centers are at opposite ends. They are
24 far to the north in Georgia and they are far to the south in
25 Florida. As a matter of fact, I think you all are sitting

1 at the beginning of the load sink for Florida and it flows
2 southward from there.

3 Substantial upgrades would be required to move
4 those large power blocks over the southern system to those
5 load centers, whether in Atlanta or South Florida. Thus
6 questions arise as to the magnitude of the economic benefits
7 that Florida, in particular, would likely see under these
8 RTO assessments assumptions.

9 There also appears to be little political impetus
10 to pursue retail choice in the southern states. That's self
11 evident and it's been mentioned over and over again. I
12 think that one of the things, one of the comments or
13 reactions that most of the southeastern states, one of the
14 reactions that's solicited is, you know, we're not going to
15 competition, or retail competition anyway. And I think
16 that's one reason I think Mr. Kimmelman's comments this
17 morning kind of struck a nerve with some of the things in
18 terms of regulatory uncertainty and high risk to
19 investments. I don't think that necessarily applies given
20 the certain political realities in terms of deregulation on
21 the retail side that exists in the southeast.

22 Quite frankly, our vertically integrated
23 utilities have provided very good service over the years and
24 have had rates below the national average. And I think this
25 raises or this points up really the highlight, or sort of

1 highlights the situation that we as regulators are in, at
2 least in my opinion anyway, is you hear things about Florida
3 being, Florida in particular, being a high cost state.
4 That's why RTO policy assessments have benefits flowing down
5 to Florida despite physical constraints that are evident.

6 What the regulators or what we at the Commission
7 at least try to keep our eye on is our rates, our bills, in
8 essence, are at the national average despite, if you take
9 everything as true that our costs are high, at the end, the
10 people that we're looking out for, the end user or the rate
11 payer, it's pretty well protected. That's just my opinion.

12 Anyway, given these facts, it seems that
13 infrastructure upgrades, especially between Florida and
14 Georgia have to be based on the following premises. Any
15 system upgrades have to show identifiable benefits to retail
16 customers who are for the most part served by, and as I
17 mentioned most likely will continue to be served by,
18 vertically integrated utilities. In other words, the focus
19 should be on cost effective infrastructure upgrades to serve
20 retail load with the objective of promoting wholesale
21 competition as a secondary goal. And that is not to
22 understate the importance of wholesale competition,
23 something that at least we at the Florida Commission are
24 very mindful or and encouraging of on our terms.

25 If upgrades for retail load enhance wholesale

1 transactions, that's a desirable secondary result. Upgrades
2 that don't show benefits to the body of retail customers
3 must be allocated in a manner that those receiving benefits
4 should pay for those upgrade costs. In other words, under a
5 bundle system cost shifting has to be avoided to the extent
6 possible. By avoiding cost shifting there should be less
7 opposition to system upgrades. Excuse me.

8 And just to close, everybody supports objectives
9 of more robust wholesale markets in this region. The
10 question is how much pain. That really is the question.
11 How much of it will be inflicted on retail customers to
12 enhance such competition? We used to hear the phrase a long
13 time ago competition for competition sake. And I think that
14 that's at home in this scenario as well. As regulators,
15 we're trying to protect the rate payers as much as possible.
16 Recognizing all the while that these goals of wholesale
17 competition are worth while. And we're trying to tread that
18 thin line at all times.

19 Those are my comments. So, thank you all for
20 having me.

21 MR. MILES: Thank you, sir. Our next speaker is
22 Commissioner Ervin from North Carolina Utilities Commission.

23 MR. ERVIN: Mr. Chairman, I couldn't help but to
24 start off by commenting the four of the five of us are
25 refugees from the practice of law in one form or other and I

1 don't know what that says about our technical expertise to
2 talk about it this afternoon. But a member of my family
3 used to tell the story about the lawyer's prayer. And he
4 said that back in the 1920's when revivals were current in
5 the North Carolina mountains, where I come from, that a
6 lawyer, a young lawyer went to a revival, probably for the
7 purpose not of religious edification but drumming up
8 business. And was asked to give the prayer. And his prayer
9 was as follows. Stir up much strife amongst thy people,
10 Lord, lest thy servant perish.

11 I will try not to do that today. I'll try to put
12 my training behind me and try to be constructive because I
13 think that's what we're all here for. The question on the
14 table, as I understand it, what is the infrastructure needs
15 of the southeast and what should we do about it. I think
16 before we address that question I want to revert to
17 something that Bill Newman said this morning, which is when
18 you ask yourself infrastructure questions you need to ask
19 them in the light of what is it that you are trying to
20 achieve because the ultimate goal of the process, at least
21 we in North Carolina see it, is to provide the most reliable
22 power possible at the most reasonable cost for end user
23 customers.

24 Regulation is a means to an end. Competition is
25 a means to an end. The end is what is the reliability of

1 the service to the end user customer and what is the price
2 that that customer pays. And so our job as regulators,
3 yours at the federal level and ours at the state level, is
4 to work toward that end. Like Florida, North Carolina still
5 is dominated by vertically integrated utilities that provide
6 bundle retail service. Our general assembly has indicated
7 that the matter of restructuring is a question for it and
8 not for anybody else. So that's not something that we have
9 the power to implement.

10 And I think I can speak candidly and say that
11 aside from that that there's not much inclination on the
12 part of either the General Assembly or the Commission, at
13 this point, to make that yet. So, for the foreseeable
14 future we are looking at the preservation of a traditional
15 regulated environment. And Mr. Kimmelman may have some
16 concerns about that but that is the political reality in
17 North Carolina.

18 There is no groundswell of opinion in North
19 Carolina to change the system. To date, due to the high
20 quality of service that has been provided by our utilities,
21 and I'll echo what Raleigh has said about this, we have had
22 very reliable service both to the customers that are served
23 by our investor owned facilities and also to the customers
24 that are served by our municipal and cooperative facilities.
25 We've been very fortunate in having a high quality of

1 service.

2 I heard Mr. Kimmelman's comments about the price
3 of power in the southeast. I can't speak for anywhere but
4 North Carolina. But with the exception of a few
5 municipalities, it's been my impression, at least, that our
6 power prices, even though like Florida we don't have any gas
7 or any coal in North Carolina, that our retail rates for the
8 most part are lower than the national average.

9 So, when you have a pretty high degree of
10 reliability and relatively low rates, there's not a lot of
11 impetuous in favor of changing the system. And I know that
12 because I use to represent some people who wanted to change
13 it. And I saw what the political realities were. Even so,
14 we have spent a fair amount of time in the last year looking
15 at the question that's on the table today. What is the
16 status of utility infrastructure in North Carolina? We've
17 looked at the generation question. We've spent a fair
18 amount of time working on gas pipeline issues, at least at
19 the LDC level in North Carolina and we've also spent some
20 time recently looking at transmission issues.

21 And our results to date indicate that we think
22 we're in reasonably good shape starting with electric
23 generation because of the fact that the North Carolina
24 Utilities Commission has the power by statute to order the
25 construction of plants to the extent needed to provide

1 reliable service. We have that safeguard. We haven't
2 needed to exercise it because our utilities, through the
3 plan and processes that they engage in have anticipated the
4 need to add load as it becomes necessary to do so and have
5 done so.

6 Both of the two companies that provide the bulk
7 of the IOU service in the state have built their own plants
8 within recent years. There has been, we have certificated a
9 number of merchant plants. It remains, frankly, to be seen
10 what's going to happen to the power that's generated by
11 those plants if they're built. But our projections, as
12 embodied in our integrated resource plan and orders
13 indicate that we're likely to have comfortable reserve
14 margins for the foreseeable future.

15 Now, obviously we could be in error in
16 projections. All projections are nothing more than
17 projections. But to date we've had reliable service and
18 have not seen any need to get overly concerned about the
19 availability of the electric generation capacity.
20 Similarly, with respect to transmission issues, we initiated
21 a proceeding last year, which has not been completed, to
22 examine our transmission infrastructure. To date we have
23 seen no indication that that system is inadequate for the
24 purpose for which it's being used, which is to bring power
25 from the plants operated or operated by our owner contract

1 to our investor owned utilities to the places where the load
2 is.

3 I had my staff check this morning. We've had one
4 TLR in North Carolina, on a North Carolina, South Carolina
5 system utility that interrupted firm load in the last four
6 years. That was in 1998. And I'm assured that the
7 constraint has been fixed. Now, I don't know the source of
8 that but I asked my staff to find it yesterday. So, at
9 least as of the present time we're not under the impression
10 that our system is inadequate for the purpose for which it
11 has been traditionally used. I did see the chart this
12 morning that dealt with the import capabilities. But our
13 companies tend to sell supply their own load.

14 Finally, with respect to gas pipeline
15 infrastructure, one of the interests of North Carolina
16 historically has been the advisability of looking into
17 second interstate pipeline. We have one interstate pipeline
18 that serves the bulk of our needs in the state. Of course,
19 we don't have any interstate pipeline siting authority. But
20 that's been our biggest concern historically. Our General
21 Assembly has spearheaded a program whereby we have been
22 attempting to extend LDC infrastructure throughout the
23 state. And we now have plans; we have a hundred counties in
24 North Carolina. I believe there are firm plans to serve
25 every county in the state that's unserved except for four.

1 And they're all in the far western mountains and that's a
2 fairly hard area to extend interstate pipeline
3 infrastructure.

4 So, as we look at the infrastructure that we have
5 today, it appears to us to be serving the need that it was
6 intended to serve. We understand that the Commission has
7 its goals. We don't regulate the wholesale market. I've
8 got enough to do dealing with the intrastate market without
9 worrying about attempting to regulate the wholesale market.

10 But we urge you in whatever steps you take in
11 dealing with infrastructure questions to ask yourself the
12 question I started out with. What is the purpose of the
13 infrastructure results that you are seeking to achieve? We
14 remain concerned that if the FERC is primarily interested in
15 developing infrastructure for the purpose of serving a
16 wholesale market on which we principally at this time don't
17 place principal reliance, on which we are not likely to
18 place principal reliance at least in the immediate future.
19 Then please don't do anything that is going to adversely
20 impact the system that we've got for dealing with our end
21 user customers.

22 Without violating the admonition that I started
23 out with, that concern exists and I would be less than
24 candid with you if I didn't say that. We need to insure the
25 reliability of service to our end user customers that are

1 supplied by our vertically integrated utilities. We need to
2 preserve the prices that we think we can sustain. And we
3 ask you to keep in mind as you work on these wholesale
4 issues that have been alluded to today, we ask you to keep
5 in mind that North Carolina, like much of the southeast, is
6 a unique environment. All of us like to think of ourselves
7 as unique but we believe that we are.

8 We are not charged with not setting national
9 regulatory policy. We are, however, charged with setting
10 state regulatory policy. And we ask you in setting national
11 policy to keep in mind that each state does have its
12 differences and to try to accommodate those differences as
13 you make the decisions that you're charged with making.

14 MR. MILES: Thank you, Commissioner Ervin. Our
15 next speaker is Chairman Hochstetter from the Arkansas
16 Public Service Commission.

17 MS. HOCHSTETTER: Thank you. I, like
18 Commissioner Ervin, am a recovering attorney and so I found
19 myself sitting here today rewriting and rewriting about
20 three different times the comments that I came in here with
21 this morning. So, it has been an evolving process but it's
22 been an interesting dialogue today. And if I could possibly
23 be more concerned now than I was when I walked in the door
24 this morning, unfortunately I am.

25 I would note that there appears to consensus, not

1 total unanimity but some consensus on some things that have
2 been discussed today that I wanted to note. And then also
3 throw out some questions and concerns that popped up through
4 the discussion today. And then also outline my suggestions
5 for next steps.

6 And I start with the premise that I think all of
7 us that are regulators, state and federal regulators, share
8 and I think that we share a commitment to make regulatory
9 policy, make regulatory decisions that are driven by facts
10 as opposed to theories or antidotes. And I throw out a few
11 facts that we start with here in this debate or this
12 situation with the infrastructure. And that is, number one,
13 quoting my colleagues up here, the southeastern portion of
14 the United States does have adequate generation and
15 transmission to meet its needs as a region. And we do have
16 excess generation, both now and for the foreseeable future.
17 I think there had been different statistics sighted here
18 today going anywhere from 30 to 50 percent extra generation.

19 On the Entergy system along, we have an extra
20 20,000 megawatts of power, even assuming only a 50 percent
21 completion rate of the merchant plants that have been
22 announced. So, obviously the merchant folks that are
23 building plants in this part of the country are relying on
24 this region of the country to be an exporter of generation
25 to other parts of the country.

1 So, then you have to ask yourselves a couple of
2 questions. One is do we want this region to be an exporter
3 of generation? Does it make sense? Similar to what
4 Commissioner Callahan was saying earlier today, regardless
5 of who pays for the infrastructure, is that a good
6 regulatory goal because of issues of reliability and fuel
7 diversity that had been mentioned. Is it too late to answer
8 that question? Maybe we don't worry about what's happened
9 up to this point in time. Let the free market handle the
10 generation that's out there right now. But on a going
11 forward basis, establish some regulatory policies that make
12 sense, that answers that question.

13 And so that brings me to kind of a note that I
14 thought was ironic. It seems like we're at a point now of
15 maybe needing to put some regulatory guidelines into our
16 deregulated wholesale market because I'm not quite sure that
17 the deregulated wholesale market has totally taken into
18 account the societal economies that ought to go into those
19 sorts of decisions.

20 On a next steps basis I think at this point we
21 need to adopt some economic pricing policies, as I know you
22 all are grappling with and we are as well, and look at
23 approaches like participant funding and perhaps others.
24 Maybe look at regional siting or regional IRP approaches.
25 And I seem to recall someone telling me that regional IRP

1 had a life in the past. Maybe about a decade ago there was
2 some pending federal legislation on that point and I believe
3 the Arkansas Commission was involved with or involved in
4 with Senator Bumpers.

5 At any rate, I think that those concepts, which
6 are similar to what Commissioner Callahan mentioned earlier,
7 might be appropriate in addition to or as part of this
8 overall context of adopting some sound economically based
9 regulatory policy on a moving forward basis. And besides
10 just making sure that rates are reasonable, it seems like
11 there were a lot of other macro economic things that emerged
12 from discussion today.

13 One is that it makes more sense to have
14 generation located closer to the load. If you look at
15 what's in the best overall societal needs, you've got to
16 look at the total cost of delivery and power and let the
17 load see that pricing signal so you know whether or not the
18 new generation transmission needs to be built or if, on the
19 other hand, Conservation and DSM needs to be implemented.

20 We need to insure that we do have reliability and
21 it does seem like a dispersion of generation would best
22 achieve that as opposed to creating bottlenecks on the basis
23 of one part of the country being a net exporter or the
24 primary exporter of generation.

25 Fuel diversity is something that is also, I

1 think, near and dear to all of hearts. And I worry about
2 the majority of new generation being gas fired, which is
3 certainly looks like is one of the reasons that so much is
4 being located in the southeast. I think that the issue of
5 subsidies, one region of the country subsidizing another is
6 a regulatory issue. And I think that economic development,
7 as Commissioner Brownell noted at the beginning of the
8 session today, is critical to keep in mind. Our region is
9 enjoying very, very low generation rates or just overall
10 retail rates right now, which will help us in our economic
11 development efforts. If, on the other hand, our rates go up
12 through subsidizing this exportation of generation, that's
13 going to compromise our ability to improve our economic
14 development situation on a going forward basis.

15 So, in conclusion, if we set regulatory policy
16 that's based on fact and on economic principals, we won't
17 exacerbate and can hopefully reverse this path that we're
18 currently on where we seem to have a collision of a
19 deregulated wholesale market with the goals of reliability,
20 reasonable rates, economic development and fuel diversity.
21 Thank you.

22 MR. MILES: Thank you, Chairman Hochstetter. Our
23 next panelist is Commissioner Dixon from Louisiana Public
24 Service Commission.

25 MS. DIXON: Thank you so much and good afternoon.

1 I just want to say hello to Sara Cowe and welcome you here.

2 It's good to see you. I notice you came in.

3 Unlike my colleagues, I'm trying to be a
4 recovering social worker. However, prices are high, people
5 can't afford it and it's a problem for me and I have to get
6 back into social work.

7 A couple of years ago in Louisiana, we did
8 conduct an investigation on our, the large vertically owned
9 utility. And we found that fuel costs were not minimized.
10 The allegations that the company didn't take advantage of
11 economic purchases from third parties rather than purchasing
12 from its own system or within its system. From there we
13 went to having investigations done and we required them to
14 perform the analysis of bulk transmission systems and
15 determine whether constraints existed and whether they were
16 being cost efficient or they were cost defective remedies.

17 The preliminary results of that study appear to
18 be very promising. From what we see we're going to benefit
19 from significant potential savings somewhere around over
20 half a billion dollars, or a quarter of a billion dollars,
21 I'm sorry, would be the present value just to our state
22 alone, Louisiana. The benefit will be to the native load of
23 customers, however. From this, it did warrant further study
24 and we know that the analysis right now is underway and we
25 can't wait for the results.

1 In generation, there is significant generation
2 under construction in Louisiana into these service
3 territories. However, Entergy is not the company that's
4 doing most of the generation. We have some 15,000 plus
5 megawatts that's going to be coming to Louisiana. It's all
6 in natural gas. As you know we're the queen of natural gas
7 in our area, besides Texas. They're over there and we don't
8 mess with them and they don't mess with us. That's how they
9 come up with that expression, don't mess with Texas.

10 It's going to be gas in merchant plants. None of
11 the vertically utility, vertically integrated utilities are
12 participating in that. We recently adopted some new
13 procedures, though, to certify all this new generation
14 that's coming in. Competitive bidding for the new
15 generation, the IPP's regulated utility customer and staff
16 will all participate, and I even told the staff I'm going to
17 participate too to make sure it's going to be feasible for
18 us.

19 We're just seeking efficient results and trying
20 to deal with cost efficient, cost effective diversification
21 for our area. And we're waiting for the first participant
22 so we can see if it's going to really benefit us or not.
23 We've done whatever we can to try to maintain lower rates in
24 this region. We have worked hard to make sure that
25 transmission constraints are removed. We have a lot of

1 them. As you know we're on a system that includes Arkansas,
2 Texas and Mississippi. And we feel since we worked hard and
3 maintain lower rates we should not be penalized. And we're
4 very concerned about it.

5 We also know that our utility is working hard to
6 form this C-tran, which we're not sure is going to be
7 effective, cost effective or in our best interest in
8 Louisiana. However, as it was said this morning, we're a
9 little bit different from some of the other states. We have
10 our constitutional provision and it is our job to make sure
11 we maintain reliability, cost effectiveness and have the
12 capacity for our people in Louisiana. The other thing is,
13 unlike a lot of the states, we are elected commissioners and
14 I know what our job is. It even makes me more of a social
15 worker when I know what my job is.

16 But we're willing to try to work within the
17 confines of this region and do whatever is necessary to try
18 to form these transmission organizations to our benefit.
19 Now, a question came up at a meeting we had, I guess on the
20 coast, oh, I'm sorry, it was in Georgia. Are there going to
21 be three transmission organizations? 10? 20? We're not
22 sure. We're trying to, again, look at what's in the best
23 interest.

24 I want to applaud this FERC because I feel the
25 last FERC Commission, and maybe some of you are overlapping,

1 don't take it personally, but they didn't do a good job of
2 reaching out to the states to try to work on this issue. It
3 was very discouraging. I'm happy to see that you've come
4 all the way down to Florida. We look forward to you coming
5 to Louisiana. We're going to move you around a little bit
6 so you can actually get an eyeball and get a view of what's
7 happening within our states, where the constraints are,
8 where the problems are and who's going to have to pay for
9 some of the transmission lines that are, you know, going to
10 have to be built so that we can form this, these grids that
11 you're, you know, trying to hope for or thinking it's going
12 to be cost effective or in the best interest of the people
13 of these United States.

14 But keep in mind, I keep saying my job is to make
15 sure that the people of Louisiana have all of these good
16 things; good capacity, good transmission, and lower cost.
17 And that is first and foremost what I'm looking out for.
18 And then I look at the four states that we're coupled with.
19 And beyond that, I like Florida, I like Georgia and I care
20 about some of the people over there. And the Carolinas.

21 MR. CALLAHAN: You love Mississippi though.

22 MS. DIXON: Oh, I love the four states that we're
23 in. But we're actually trying to reach out. And I will be
24 in Carolina, North and South, before the week is out. So,
25 you see how much we're concerned. But we are working real

1 hard together in SERO to try to make sure we do our share.
2 But again, we don't feel we should actually be penalized or
3 subsidize the other states. Thank you.

4 MR. MILES: Thank you. Chairman Callahan, do you
5 have anything to say or do you want to take a pass?

6 MR. CALLAHAN: Do you have anything to say?

7 MR. SELLERS: I do but go ahead.

8 MR. CALLAHAN: No, go ahead.

9 MR. SELLERS: Great, yeah. I'd like to be brief,
10 thank you, Richard.

11 MR. MILES: Okay, this is Nick Sellers who's
12 representing Governor Siegelman.

13 MR. SELLERS: Governor Siegelman in Alabama. I'm
14 his policy advisor. I just want to touch on an issue that I
15 know we've touched on a little bit today but not in much
16 detail. I think, Commissioners, it's an issue that is
17 paramount going forward to any policy making or promulgation
18 of rules. And that's the issue of water and water
19 withdrawal. Governor Siegelman pays great respect to the
20 Alabama Public Service Commission and their ability as a
21 body to make policy. But when we talk about identifying
22 factors of adequate energy infrastructure, from an
23 investor's standpoint I can think of no issue greater than
24 dealing with the issues of water.

25 Water is a commodity that is no less precious

1 than gold. And in Alabama, it's funny to be talking about
2 the issues of water and challenges that we face going
3 forward. As the chief economic development officer of the
4 state, a governor has to balance economic development with
5 environmental protection. And admittedly, we've got to
6 clearly define more our regulatory and legislative issues
7 including beneficial use. In Alabama if you pull water out
8 of the ground for power you have to get a certificate of
9 beneficial use. But we haven't even clearly defined what
10 that is. Is it five million gallons a day? Is it three
11 million gallons a day?

12 And repairing rights. Our code is vague at best
13 in Alabama on repairing rights. If you have an easement
14 does that mean you have authority to pull water out of the
15 ground or not? It's something that's not even been
16 adjudicated and we have to look at that issue very closely
17 going forward. And we're beginning to have these
18 discussions.

19 But one thing's for sure. Just like they say in
20 Texas and in Alabama, if you always do what you've always
21 done, you'll always get what you've always got. And we've
22 got to think anew and we've got to look anew. Particularly
23 understanding that the generation demands are going nowhere.
24 And infrastructure needs are going nowhere but increasing.
25 There's not enough data to clearly understand the impacts at

1 this point. We understand that. We've been looking at our
2 sister states and what they've been doing with respect to
3 short term moratoriums on IPP's and the issues that they
4 face.

5 There is a great economic impact to the local
6 areas. There's clusters of economic development that can
7 come from independent power plants but what are the risks
8 versus the rewards? So, I would just say respectfully, we
9 request that this regulatory body will continue to do due
10 diligence like it's doing today when it promulgates any
11 rules in the future dealing with water policy and water
12 withdrawal.

13 I didn't know if there were any thoughts from the
14 Commission on that issue but it's something that's obviously
15 important to the Governor of Alabama, to the Legislature of
16 Alabama and going forward it will be an issue that we'll
17 talk about in great detail.

18 MR. MILES: Thank you.

19 MR. CALLAHAN: I know it's late and everybody's
20 tired and ready to go to dinner and everything. I'm not
21 going to, just kind of ditto what my fellow colleagues have
22 said. But Mr. Chairman, I just kind of have a question of
23 you. You know, you heard Braulia and Jimmy and Sandy and
24 Irma. And I think the other commission they'll tell, we all
25 agree. We've done a pretty good job regulating our

1 utilities. We think we have, we know we have some of the
2 lowest prices in the country. I negotiated three special
3 contracts last month. One of the suppliers said we were a
4 cent and-a-half a kilowatt hour cheaper than anyone else
5 they had talked with to bring a use plant to Hattiesburg,
6 Mississippi.

7 And I think from my colleagues, what they said,
8 and I know from my colleagues sitting out there, the
9 southeastern commissioners are probably like any other
10 you've ever dealt with. And we are very concerned with our
11 end user customer and protecting that customer. And we
12 think through our prudent regulatory policies, we've done a
13 very good job of that. So, my question to you, with all due
14 respect, you know, why are you down here in the southeast
15 and what are you trying to accomplish? Because we are very
16 scared that what you're trying to do is going to interfere
17 with our way of life.

18 MR. WOOD: Easy answer. Because if we didn't
19 come down here I'd be getting phone calls from all of you,
20 why in the hell did you ignore us?

21 MR. SELLERS: No. No, no, no, no, no. I'm not
22 talking about here, particularly here talking with us. I
23 mean in general. I mean, why are you pushing this RTO on us
24 in a region that we don't have the problem that they have
25 out west, in the northeast and other places?

1 MR. WOOD: The context of this hearing is to talk
2 about infrastructure. A lot of you come back to the RTO
3 issue and I know we've had discussions on that but the
4 course issue that we have done, and we started in Seattle,
5 which is in the middle of, right at the really at the tail
6 end of a really bad turn of events for them out west. Then
7 we went to the northeast, which while not in the same
8 basket, has some issues certainly with infrastructure and
9 overloading an older system. We're doing here. We're going
10 to the midwest. We're going to do the desert southwest.
11 We're going to cover the whole country because one of the
12 things that we have to do in our statutory mandate is look
13 at the health of the infrastructure of the nation's energy
14 grid.

15 And a lot of you talked about electrical and some
16 of your concerns because of our prior discussions as a
17 group. But quite frankly, one of the things that we've got
18 and I was pleased to see on the earlier panels, one of the
19 things that I really want to engage with you all on is, you
20 know, -- pinnings of a lot of what we're talking about on
21 this map is natural gas. And, Michael, I think the man who
22 was sitting in your chair on the last panel before lunch,
23 you know, talked about, you know, where's it going to come
24 from? You know, Erma, your state and my home state do a lot
25 of it offshore and it's kind of nice to see all those little

1 green lines on the ground. But there aren't any in offshore
2 Florida. There's none outside, other than Mobile Bay
3 there's some. There's none of the east coast here about
4 where little gas pipelines are.

5 So, I mean, the core issue in my mind, here, up
6 there, over there from an infrastructure point of view is
7 where is the fuel source coming from. I think we're all
8 concerned about all the eggs in one basket. We all have
9 some way to influence the outcome of that. You know, I
10 don't know that hydro electricity has a lot more potential
11 down here in the south. I do see a few blue circles there.
12 Coal issue, I know, Jimmy, you and Joanna, I think Joanna
13 just told me you all are working on some cleaning up issues
14 in your states as we had to do in mine before I left to
15 come up here.

16 So there are a lot of issues on the fuel source
17 that I really am, I'm not going to say concerned about yet.
18 But I do think that engaging on the level; regardless of
19 market structure, Mike, I do want to have that debate. And
20 I think we can have that tomorrow. We can have it later
21 today --

22 MR. SELLERS: How much infrastructure, because
23 when the southeast, as a serious region looked at our
24 infrastructure for the past six or eight months, we came to
25 the conclusion that it was adequate to serve --

1 MR. CALLAHAN: And trust me, having gone from the
2 west to the northeast to here, it's great to be here for a
3 number of other reasons as well, one of which is it's a
4 little bit different level of discussion than, gosh,
5 southwestern Connecticut is going to be, you know, for the
6 third straight summer low voltage and really may brown out.
7 Or gosh, you know, California, you can tell that story to
8 northwest, shut down the aluminum smelters. It's much
9 easier to come here. I guess my thought is it's important
10 for us to do mixed roles on infrastructure to build a
11 working relationship.

12 So whether it's Pat, Linda and Nora and you all
13 are successors, we've got more than just kind of a, you
14 know, let's all get together at the cocktail party
15 relationship. But a working relationship of we do some
16 stuff on our side. You all do some stuff on your side.
17 Making sure that, as we heard from the investment community,
18 the infrastructure pricing signals get sent clear. I
19 thought your questions already this morning were pretty good
20 on that. But that, a lot of the issues to make sure that
21 regardless of your political decision to open up your state
22 or not as to retail competition of electricity or gas, kind
23 of independent of that, do we have the over-arching
24 infrastructure to make it all work?

25 I've got some pretty good feedback from you all

1 and from the panelists here today about the health of
2 certain power plants. That sounds like -- check -- worry
3 about. I do think, as I've heard, and Erma, probably you
4 were the most eloquent, but and I think some panelists
5 earlier, are those generation plants where they need to be
6 to serve the load? Good question. Transmission lines, I
7 think some issues, related issues to that. Natural gas
8 pipelines. And I guess, Jimmy, I did want to ask you a
9 specific question on that while I've got the mike.

10 We have one before someone coming, some pipelines
11 that would actually be an alternative to Transco coming
12 through. And I don't know. Is there, does the State PC or
13 the Environmental Commission; I mean, we've got some
14 landowner issues there and --

15 MR. ERVIN: That's kind of an interesting one,
16 Mr. Chairman, because that one is mostly being built in
17 Virginia but it will come into North Carolina and intersect
18 with some of our infrastructure right over the border.

19 MR. CALLAHAN: Right.

20 MR. ERVIN: So, you're mostly hearing from
21 Virginia folks on that one. But we had sent a letter
22 generally in support of it without getting into the side
23 issues.

24 MR. WOOD: That shows even on gas, the multi-
25 state issues are just as important as they are on the

1 electricity. And I think on oil issues, I think coal. We
2 didn't get much take on the rail contact but I've not picked
3 up that there's much issue with regard to that.

4 So, Michael, to answer your question why are we
5 here. I think we're here just to make sure we're doing our
6 job.

7 MR. CALLAHAN: Well, do you feel good about what
8 you've heard?

9 MR. WOOD: I do.

10 MR. CALLAHAN: Do you feel good about the
11 infrastructure in the southeast?

12 MR. WOOD: For me, yeah. Linda's nodding. Nora?
13 I saw some of the issues and I haven't had time to digest
14 them about the, in the transmission study yesterday that was
15 released by the Department of Energy that I'd like to, and I
16 think probably will mention a little bit in the Searok
17 study. And since I just got both of those today, I'd like
18 to say a qualified yes. But I like what I heard. I think
19 it's, kind of makes it easy to move onto the next one, which
20 won't probably be as easy.

21 Keep on keeping on, as they say.

22 MR. CALLAHAN: Well, you know, like I say, we're
23 speaking for Mississippi and really for the whole southeast.
24 I think we're proud of ourselves for what we've done and how
25 we've done it. You know; oh, okay. I'll give you two some

1 credit too. But you have to watch them because they want
2 these like very high rate of returns that just aren't
3 reasonable.

4 I guess some things that concern me, when you
5 talk about infrastructure you can reach a point where, for
6 simplicity of numbers, say your load in the southeast is
7 10,000 megawatts. How much more generation and transmission
8 capacity do you need above that? I mean, you get to a point
9 where you've over-built and overinvested. And, you know, if
10 you're saying, all right, we've got a load of 10,000
11 megawatts but we think we need 20 or 30 or 40 files and so
12 we can have a robust wholesale market and all this. Are you
13 not getting to a point where you're over building?

14 You're putting too much capital in the ground.
15 You're putting too much strain on your natural resources and
16 your environmental resources. And it doesn't make a lot of
17 sense to take infrastructure to that degree.

18 MR. WOOD: I think one of the paradigms that came
19 out of the '92 Act and one that as a state regulator I'm
20 thrilled about because it got pretty annoying passing
21 through every risk down to the end use customer, which the
22 old system that, I guess we've all been a part, actually
23 every one of us has been a part of, tends to do. Well, if
24 there's a risk, let's put it on the back of the customer.
25 If the fuel goes up and down, it goes on the back of the

1 customer. If a nuclear plant, once we do the disallowance
2 and, I think, Irma, your state and mine have been through a
3 wonderful history on that --

4 MR. CALLAHAN: Mine too.

5 MR. WOOD: Yeah, and Mississippi was there.
6 Yeah, we've all; that's the four. Here we are. A long
7 history there. But, you know, the nice thing about the new
8 market, and it has been, I think the gentleman from, what
9 was his name?

10 MS. BROWNELL: Goldman Sachs?

11 MR. WOOD: Goldman Sachs this morning pointed out
12 is in the new world, the risk is put on somebody different
13 than your constituent or your customer. And I think that
14 that's actually a better state of affairs than it used to
15 be. So if somebody is building a plant and it doesn't get
16 dispatched, well, they wasted somebody else's capital.
17 Those tend to be pretty good disciplines. Probably about
18 better than every three or four year rate review that you or
19 I do.

20 But I think those power plants that are out there
21 may do the interesting impact because we aren't talking
22 about on any of the charts today all the plants that didn't
23 get shut down. The old dirty inefficient plants that are
24 polluting the skies, the ones that use twice as much gas as
25 the new guys. All these new plants bring a lot of benefits

1 not only for customers and costs but in the environment.

2 So, I think we do have to be excited about the
3 excess of generation capacity that we've got. But also
4 recognize that what that ends up doing is shutting some
5 other plant that becomes an economic down.

6 MR. CALLAHAN: Let me ask you this, and I
7 understand the shifting of the risk. But when you shift
8 that risk and you make the investment and the investor as a
9 more risky proposition, you have to allow them a greater
10 return because with high risk should come high reward or
11 nobody's going to invest. Can we agree on that?

12 MR. WOOD: Yeah, generally.

13 MR. CALLAHAN: Something that troubled me, I
14 mean, I go from one to the other. I mean, I like the
15 regulated market. I think it's worked real well and I don't
16 know if this industry can work outside of that. But I'm
17 open minded. I can stay open minded on that point. But
18 when I, ABC Company and I build a plant and I take the risk
19 of building that plant and I put my five hundred million in
20 the ground. And it hits 110 degrees in the summer time and
21 everybody needs electricity, should I not be allowed to sell
22 the product for its market price? And why it concerns me
23 is, given Gachs Goldman, and I hate to do this because he's
24 not here, but Commissioner Massey again went back to the
25 phrase just and reasonable rates.

1 In a market, when I go back to my economics books
2 and capitalism, just and reasonable never comes in. I mean,
3 we all want to be in a world where we sell widgeits and we
4 wake up one day and everybody needs a widget and we're the
5 only ones that got them. And something that concerns me is
6 we talk about we're going to have a market, we're going to
7 do this. And I can understand the investor's frustration
8 because we want to go to a market but when the market starts
9 to go up, we all run for cover, for political reasons or
10 other reasons.

11 I mean, we've got to understand that a market can
12 go up and down. And I think there's some frustration. If
13 we're going to let this market go and we're going to put
14 these risks on these guys back, when it's time to get the
15 rewards, they've got to be entitled to the rewards. I mean,
16 would you not agree with that?

17 MS. BROWNELL: Michael, I would agree with that
18 accept I think the assumption is that those prices get out
19 of control and we're basing that on the assumption that
20 California is the model. I think what we have said is
21 California was not the model and there were many reasons
22 that that got out of control, not the least of which was
23 scarcity. And of course the price of widgeits go up when you
24 have them all. The intent of a market is the competitive
25 pressures to keep those prices under control. I think all

1 of us would agree today --

2 MR. CALLAHAN: But they don't always work that
3 way, Nora.

4 MS. BROWNELL: Excuse me, Michael, can I just
5 finish, please? I think what all of us would say today is
6 we do not have competitive markets. We certainly don't have
7 them here nor do we have them, I think, totally in the
8 northeast where we have all kinds of market mitigation
9 measures in order to protect the end use customer from that
10 volatility. I think all of us have said, I think I've
11 really come a thousand percent in a different direction on
12 this, that market transitions from monopolies to free
13 markets, particularly with a commodity that is so vital to
14 the individual lives of the people that all of us serve,
15 those transitions take a whole lot of discipline, a whole
16 lot of rules, deregulation, you know, the title is not
17 accurate. We're restructuring. We are not, we're creating
18 more regulations rather than less.

19 So, I think, Michael, we need to, you know, I
20 think we're all scarred by the events of a company that
21 didn't know how to play by the rules and a set of rules that
22 probably were inadequate and a scarcity situation. And we
23 need to get beyond that to say, as one of our speakers did
24 this morning, we can do better than history. What is it
25 going to take to do better?

1 So, what I'm saying is yes, all of your concerns
2 are legitimate and we share those concerns. But some of
3 those concerns are based not on what we're doing but what
4 people think happened. And think cannot be controlled. And
5 I think you gave an example this morning where there were
6 cost overruns past on to rate payers. And you said would it
7 have been better to let the company go out of business or
8 would it have been better to pass them through? I think in
9 a truly competitive market where there are plenty of
10 players, letting a company with a bad business plan go out
11 of business is what we're all about in this country.

12 So, without putting customers at risk, when you
13 have a real market people can afford to take other kinds of
14 risk. So, that's my view.

15 MR. CALLAHAN: Well, let me ask you this. At
16 what point do we have a real competitive market?

17 MR. WOOD: When you have market power moved to
18 the edge, which is very difficult. It's very difficult here
19 where you've got --

20 MR. CALLAHAN: I mean, is it ever going to be
21 possible to have a competitive market with this service
22 commodity or whatever you want to call it?

23 MR. WOOD: Oh, I think so, yes. I think
24 certainly on the wholesale side. On the retail side, that's
25 going to be a function of probably a lot more political

1 decisions than economic ones. But, I mean, look at the gas
2 model. I heard Sandy on a phone call we had when we were
3 talking about this, our first phone call with you all. The
4 gas model, which was engineered by FERC in the '80's and
5 '90's, at the wholesale level, and I know, I think Braulio
6 and Jimmy both kind of, in your comments at least just a
7 moment ago, seemed to kind of put the two together.

8 There are two very different things going on.
9 The economic revolutions, so to speak, that happened on gas
10 and that we're talking about at FERC's level electricity is
11 the wholesale level, to get the efficiencies of having power
12 plants, the new clean efficient stuff compete against all
13 this stuff that's already on the grid for the best
14 production value for the customer. Let that win. And the
15 customer in this case is a coop, a munie, an investor owned
16 utility, big or small. And then in states that are on
17 bundle, like mine and in Virginia, on both ends of this map,
18 where the end use customer can make that choice.

19 Those are at the wholesale level, though. Those
20 benefits at the wholesale level are intended to capture
21 generation competing on generation. Just like in the gas
22 revolution, you've got the benefits of all the gas in the
23 continent competing against each other so that you really do
24 have a national gas price, whether it's Canadian; or
25 international when you count Canada. But that has created;

1 and what came along with gas was a sufficiency of
2 infrastructure to actually move that commodity around.
3 Unlike electric, it doesn't move at the speed of light.
4 It's got to go a lot slower.

5 But in any event, the gas model is a good one
6 that I think has a lot of applicability to power. People
7 won't always distinguish it. But quite frankly the things
8 that are distinguishable are not central to the core values
9 of what you can actually get if you get it set up right.

10 And what I like our debate to move to is how do
11 we then capture wholesale benefits so that you, as state
12 regulators and closed states, can have some benefits to pass
13 on to customers. Because I've heard the 0.3 up there. It's
14 like, well, okay. That's great for status quo but I hope we
15 can do better. Or that the open states can just have the
16 market allocate those benefits. Either way we want to get
17 the benefits. So that happens a lot easier, I think, if
18 there are some consistent rules of the road as to how we set
19 up the rules for generators to compete, for transmission to
20 be added onto, for customers, wholesale or retail or both,
21 to participate. And rather than kind of being in the
22 jurisdictional, you know, squabble and, you know, where we
23 never really get anywhere.

24 MR. CALLAHAN: Well, you understand that our
25 concern is what if the cost the customer has to pay to get

1 those wholesale benefits exceeds the sum of the benefits?

2 That's our concern in the southeast. You understand that,

3 correct?

4 MR. WOOD: That's a concern everywhere.

5 MR. CALLAHAN: Okay.

6 MR. WOOD: I mean, that's our job to make sure
7 that the same thing that happened on gas happens here. If
8 not --

9 MR. CALLAHAN: Now, remember now, in December of
10 2000 natural gas was at a roof. I mean, it went up big
11 time.

12 MR. WOOD: Yeah, and it came back down --

13 MR. CALLAHAN: It did, it did. It was market.
14 And I was so glad to see everybody not running putting a
15 price cap on it and all because we saw, the guy, I forgot
16 his name, talking about the number of wells. And we've also
17 seen as the prices went down, they're not drilling. And you
18 know what? If it's as hot as I've been praying it's going
19 to be this summer and these plants use natural gas and then
20 it gets cold this winter, in December of 2002, we're going
21 to be right back where we were in December of 2000.

22 MR. WOOD: Maybe one of the panels we didn't do
23 was talking about gas storage. Exactly. With all the salt
24 domes around the Gulf, I know there's a lot of potential
25 there. But storing gas is, fortunately what California did

1 do this year.

2 PARTICIPANT: How about salt --

3 MR. WOOD: They've got some too? Good.

4 PARTICIPANT: Yeah, they can just throw that in -

5 -

6 MR. WOOD: All right.

7 MR. MILES: We have a few minutes left.

8 Commissioner Dixon, did you want to; and then we'll go to

9 Christine, I think had a question or a comment?

10 MS. TEZAK: I just wanted to offer some
11 additional information to Commissioner Callahan because I
12 think that one of the things that I think you're mistaken
13 about is that there is a lot of opportunity for flexibility
14 between the black of a completely unregulated market and the
15 white of a completely unregulated market. One of the
16 reasons why so much capital was attracted to ERCOT was
17 because it was possible to build even though there was a
18 very, very large market now for capacity in Texas.

19 There's been no problem for those companies to
20 get money to fund projects in Texas because they know that
21 they're feasible, they're fundable and that they can
22 compete. One of the reasons that they're possible is
23 because of the capacity requirements that exist in Texas and
24 it's a clear way of working, you know, what you need in the
25 future with what you have now.

1 And I think that one of the things that would be
2 helpful as far as moving your, you know, your comfort level
3 as you analyze whether or not deregulation will be
4 incrementally positive for your customers is not look at
5 going completely to unprotected wholesale markets. I don't
6 think that's what is being tried to propose here. But the
7 investor base also is very scared about the political
8 repercussions of price caps. They're very positive on
9 things like if an RTO or if a region or if a utility will
10 have opportunity to contract forward as a requirement
11 because that gives them surety that there's going to be
12 financing and it drops the price of the cost of capital.

13 So, I think that, you know, don't, although as I
14 agree with Commissioner Brownell, we have been scarred by
15 the California debacle, not only on the consumer side but
16 also on the investor side. That there are ways that Wall
17 Street and investors are willing to work with you to avoid
18 what both of you might see as volatility that's beyond your
19 tolerance level.

20 MR. CALLAHAN: I agree. But you have to have the
21 rules hammered out. I mean, investors are not going to
22 stand for the rules to keep changing in the middle of the
23 game every time because when somebody, when they invest half
24 a billion dollars, I mean, they're not doing that out of the
25 goodness of their heart.

1 MS. TEZAK: Right --

2 MR. CALLAHAN: They're doing it to make a profit.

3 MS. TEZAK: But you're the ones who can help
4 structure those rules. The investors are not --

5 MR. CALLAHAN: No, I can only structure the rules
6 to regulate. And I guarantee you, if you invest in
7 Mississippi Power or the Southern Company, they're going to
8 get their rate of return. It's guaranteed. They're not
9 going to make a mistake. They're not going to go belly up.
10 They're going to be there. And we just had a hearing last
11 week. Actually, Mississippi is under Performance Regulation
12 Plan. If they do a good job with good service and keep
13 prices low, we'll allow them to earn above their return for
14 being a good company.

15 And we just had a hearing last week to update
16 that formula to take into effect the new economic
17 indicators. It's probably going to raise their return a
18 little bit. With regard to the companies we regulate, to me
19 it's a difference of you want somebody who's going to come
20 up and hit a single every time or do you want to get a Barry
21 Bonds who has a chance of knocking one out of the park?

22 But what you don't want to have is Barry comes up
23 and he may get a single or he may knock one out of the part
24 or he may strike out. If he strikes out, he has to live
25 with the consequences. If he knocks one out of the park,

1 you say, no, no runs score. You can't go that far. But if
2 he hits a single, you'll let him have it.

3 That, I think, is what we need to get away from.
4 We need to get the rules and establish them and play by
5 them.

6 MR. MILES: Okay, we're nearing the end.
7 Commissioner Dixon, I thought you had a comment.

8 MS. DIXON: Thank you so much. I do want to
9 acknowledge Julia Johnson and thank her for allowing us to
10 continue this discussion through emerging technologies. We
11 will be doing that later tonight and tomorrow. But to the
12 Chair, I noticed earlier, we had the, I can't think of her
13 name but the lady who talked about statistics and the growth
14 that was coming to the south. I was really concerned and
15 wondering, is there such growth going to the north and to
16 the west as far as population shift? Or are they all just
17 shifting down here because there's no coal or no heat to get
18 them, you know, any heat in the winter and they got to come
19 down here and be warm. But look out for the summer because
20 you might be too warm.

21 The second thing had to do with the study that
22 you all did on the RTO. And our concern was, we didn't see
23 where it included what the impact was going to be on cost to
24 consumers nor the congestion pricing component. Is there
25 anyway we can get at least to the fix of that or, you know,

1 get a feel for what you all are going to do with that or use
2 that to justify before we, could we get some answers to that
3 before you move forward with that study?

4 MS. BROWNELL The study, let me repeat. The
5 study was not intended and clearly wasn't the be all, end
6 all, answer all the questions. The Committee of State
7 Commissioners has continued to work with the staff to raise
8 questions of concern that they would like to see answered.
9 And that is a work in progress so that there will be further
10 development on the cost benefit study.

11 MS. DIXON: I'm interested in those two though,
12 those two questions.

13 MS. BROWNELL: If they're not added to the list,
14 and Ed Meyers is in the audience and he's been working on
15 that and he can probably talk to you afterwards.

16 MS. DIXON: Thank you.

17 MS. BROWNELL: But as we discussed in Atlanta,
18 and I would repeat again, I think that you might be
19 comfortable as other parts of the country are doing in doing
20 your own cost benefit study.

21 MS. DIXON: We are.

22 MS. BROWNELL: And we hope that you will let our
23 staff know. The northwest has been working with our staff.
24 We're happy to share common databases, so at least we're
25 starting from the same premise, if you wish to do so. If

1 you do not, that's okay too.

2 MS. DIXON: Oh, we share.

3 MS. BROWNELL: I think they're not mutually
4 exclusive.

5 MS. DIXON: We'll continue some of this at
6 Emergent Technologies.

7 MR. MILES: We're past 5:00 o'clock. Any closing
8 remarks or comments? That's it.

9 MR. WOOD: Well, my Q & A with Mike, we got
10 there. I think the out take for me, certainly of the three
11 we've had, Mike, a/k/a Oprah, the out take we had was
12 clearly, compared to the northeast and the northwest, a nice
13 place to come to. So, I hope the midwest and the desert
14 southwest continue the trend. But thank you all. I
15 appreciate the nice turnout. The audience, it's good to see
16 a lot of old friends again and meet some good folks.

17 We had a good set of panelists. I want to thank
18 the folks on our staff who worked hard to put this together.
19 And Rick, as always, thank you for your leadership.

20 MR. MILES: Okay, thank you all.

21 (The above matter was concluded at 5:05
22 p.m.)

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CERTIFICATE OF OFFICIAL REPORTER

This is to certify that the attached proceedings
before the FEDERAL ENERGY REGULATORY COMMISSION in the
Matter of:

Name of Proceeding: FERC Meeting

Place: Orlando, Florida
Date: THURSDAY, MAY 9, 2002

was held as herein appears, and that this is the original
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Regulatory Commission, and is a full correct transcription
of the proceedings.

Ronald N. LeGrand, Sr.
Official Reporter