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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
COMMISSION WORKSHOP
UNDOCKETED

ORIGINAL

In re: Commission Review of Electric
Utility Ten-year Site Plans.

COMMISSION WORKSHOP

The above-entitled matter came on to be heard
before the Florida Public Service Commission, Honorable
JULIA JOHNSON presiding as Chairman, at Room 148, the Betty
Easley Conference Center, 4075 Esplanade Way, Tallahassee,
Florida, on the 8th day of August, 1997, commencing at
approximately 9:30 a.m.

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RAY D. CONVERY
Court Reporter

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P R E S E N T

- JULIA JOHNSON, Chairman
- SUSAN CLARK, Commissioner
- JOE GARCIA, Commissioner
- TERRY DEASON, Commissioner
- DIANE KIESLING, Commissioner

PROCEEDINGS

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CHAIRMAN JOHNSON: Good morning. I'm going to go ahead and call the Ten-year Site Plan Workshop to order this morning.

Are there any members of the public who would like to testify or present any comments to us today? And if so, we're going to have staff walk us through the process, but I did want the members of the public to come forward and make yourselves comfortable.

Terry Reid is here to our left here to assist anyone that's not familiar with the process that would like to participate. Please feel free to talk with him if necessary or, if not necessary, you can just come forward.

Staff, let me turn it over to you to make introductions and to let our audience know what the process will be today.

MS. PAUGH: Thank you, Chairman Johnson.

This time and place have been set for this workshop of commission review of electric utility ten-year site plans, pursuant to notice issued on July 8th, 1997. Because this is a workshop, it is not necessary to swear the witnesses. There is an agenda for this workshop which will include opening remarks by the Chairman, introductory remarks by staff, public and interested persons' comments, statewide assessment by the Florida Reliability

1 Coordinating Council, and then individual utility
2 assessments. 15 minutes per presentation have been set
3 aside for this. Thereafter, we will have closing remarks
4 by staff.

5 CHAIRMAN JOHNSON: Okay. Staff?

6 MR. HAFF: I guess with that, we can -- oh, I'm
7 Michael Haff. I'm with the commission staff, and I just
8 wanted to add that, when people make their comments or the
9 utilities make their presentations, to please give their
10 names so that the court reporter will have a record of it,
11 and any presentations or handouts that you have, make sure
12 that the court reporter also gets a copy of that, as well
13 as Commissioners and staff.

14 And I guess with that, we can take the public
15 comments or interested persons who have comments on the
16 plans and start with them.

17 CHAIRMAN JOHNSON: Lee, would you like to --

18 MS. KAMARAS: Good morning, Commissioners. I'm
19 Gail Kamaras with the Legal Environmental Assistance
20 Foundation. The report you've just been handed is LEAF's
21 report card on nine of Florida's electric utilities, and we
22 do have a copies of the full report for those utility
23 representatives. We also have a summary report that others
24 may pick up.

25 This report's on the electric utilities, their

1 energy choices now and for the future as projected in their
2 ten-year site plans, the pollution those choices cause, and
3 the lack of progress on either energy savings or use of
4 renewable resources.

5 We find in the report card that the utilities'
6 performance is unsatisfactory as we hope the Commission
7 will find their ten-year site plans unsuitable, and we urge
8 them to improve their performance.

9 Florida's considerable array of legislative and
10 other public policies favoring the wise use of energy
11 resources must be implemented vigorously to set the
12 direction toward a sustainable energy future for the
13 state. Electric generation is the most polluting human
14 activity. Our report shows hundreds of thousands of tons
15 of pollutants, and it's in the millions of tons for carbon
16 dioxide, from nine plants alone, nine utilities, alone --
17 excuse me -- being put into the atmosphere, some of which
18 also reaches our water resources.

19 Those pollutants cause acid rain, smog, soot and
20 global climate change. This pollution also has widespread
21 and serious health and environmental effects in Florida.
22 The cost of this pollution is not zero and we urge the
23 Commission to exercise its authority to consider those
24 costs in its decision-making.

25 Also, as the Commission is well aware, the

1 electric industry is beginning to undergo a major
2 structural change towards competitive generation. At some
3 point in the next several years individuals will choose
4 their electric supplier. We need to begin the consumer
5 education effort now by disclosing to consumers the content
6 of their energy supply. Consumers have a right to know
7 where their electricity comes from and what pollution it
8 causes.

9 I brought with me a consumer product. We know
10 more about the content of a bag of Cheetos than we do about
11 our electric supply, and that's because we have food
12 labeling. We need something similar for electricity.

13 We urge the Commission to begin the process of
14 disclosure by requiring utilities to disclose the pollution
15 and fuel information to their customers on a regular basis
16 and in a manner that is easy to understand.

17 I'll just close by saying we can't keep doing the
18 same thing over and over again and expecting a different
19 result. If we continue business as usual, making the same
20 electric power choices in the same manner, we'll keep
21 choosing the same dirty and dangerous power sources and we
22 will never get to real energy savings, a healthful
23 environment or a sustainable energy future for our state.

24 Thank you.

25 CHAIRMAN JOHNSON: Thank you.

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MS. SWIM: Commissioners, I'm Deb Swim, also with LEAF. My comments today focus on energy efficiency and the Commission's responsibility under FECA, the Florida Energy Efficiency and Conservation Act, responsibilities which warrant a finding that the utility plans before you are unsuitable.

FECA directs the Commission to require the utilities to implement energy efficiency programs. It states the Legislature's belief that utility energy efficiency programs are, quote, "critical to the," quote, "health, prosperity and general welfare of the state and its citizens," end quote.

Unfortunately, as the utilities' own conservation program performance reports and ten-year plans show, utility energy efficiency programs supply only a tiny fraction of Florida's electric service needs. In fact, as you'll see in LEAF's report card, last year less than one half of one percent of all utility energy services were provided to customers by utility energy efficiency programs. This is much less than could be provided at a cost less than power plants, even without factoring in environmental costs. We can do better and we should.

Florida's utilities have done better at another FECA directive, and that is reducing peak demand. One utility, Gulf Power, implemented a peak reduction program

1 that caused energy use off-peak to increase, sacrificing,
2 if you will, energy efficiency on the altar of load
3 management. Load management is well and good, but it is
4 not nearly enough.

5 It's time utility conservation programs achieved
6 more through energy efficiency, especially when energy
7 efficiency measures cost less than generating power,
8 otherwise utility ten-year plans will continue as do the
9 ones before you to project a larger demand for energy than
10 need be and more power plants will be built than make
11 economic and environmental sense.

12 Thank you for the opportunity to comment.

13 CHAIRMAN JOHNSON: Thank you. Ms. Elder.

14 MS. ELDER: Thank you, Madam Chairman, Members of
15 the Commission. My name is Marcia Elder and I'm speaking
16 on behalf of the Project for an Energy Efficient Florida,
17 and we appreciate the opportunity to offer brief comments
18 today on the issue of utility plans for future generating
19 capacity.

20 We are not surprised by what we have read for a
21 variety of reasons, but we are indeed disappointed because
22 fundamental needs of the public are not being addressed.
23 We live in a state whose leaders are saying that we want
24 and we intend to be sustainable, yet renewable energy and
25 energy efficiency are not just desirable, they are

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essential to sustainability.

I've had the pleasure over the past year of serving on a policy committee that has been comprised of a very diverse range of interest groups on a statewide basis, talking about sustainability issues, and in our final report we concluded that renewable energy is a pivotal ingredient or is the pivotal ingredient to Florida becoming sustainable. Yet, when you look at the role of renewables in the utilities' fuel mix both now and in the future, it turns out to be virtually zero.

As pointed out in the report card by LEAF, the role of energy efficiency is likewise slim by comparison with the potential, despite its many benefits. The benefits of sustainable energy, meaning renewables and energy efficiency, are wide ranging: Energy savings, pollution reduction, lower utility bills, reduced reliance on imported fuels which are very significant to our state, truly diversifying our fuel mix, reduced destruction of the environment through extraction of fuel resources, creating significant opportunities for economic development and job creation and international trade and improved business competitiveness, protecting Florida's natural systems which in themselves have an important economic value, improving our global competitiveness necessary as a state, buffering the state's economic mainstays which are energy intensive,

1 avoiding property damage from pollution which is truly a
2 property rights issue, protecting against adverse health
3 impacts, increasing consumer self-reliance, and freeing up
4 capital for more productive expenditures elsewhere in the
5 economy. And when you consider right now that Floridians
6 spend over \$21 billion a year on energy and the fact that
7 most of those dollars leave our state and go to other
8 states, they benefit other states' economies and other
9 nations' economies rather than our own by being put to use
10 here through indigenous energy resource and energy
11 efficiency, all of which goes to the heart of the question
12 before: Do we need to bring an additional 7,000 megawatts
13 worth of fossil fuel generating capacity on line as called
14 for in the utility plans?

15 The answer lies in the assumptions upon which the
16 numbers are founded. If you make a status quo assumption,
17 for example, you tend to get similar results to the way
18 it's always been, but I believe that it was Albert Einstein
19 who said that "The solutions of the past will be inadequate
20 to address the challenges of the future," where we would
21 submit that it's time to step beyond many of the
22 assumptions of the past that are simply outdated.

23 We can't get to where we need to go as a state and
24 as a nation if we make or if we accept such claims as
25 renewables are not cost effective while we continue the

1 pattern of decades of heavy federal subsidies for fossil
2 and nuclear fuels, the absence of incentives for
3 renewables, policies that encourage the sale of more
4 energy, not it's efficient use, and cost-effectiveness
5 tests that expressly exclude considerations to which we
6 should be ascribing great value, such as the worth of our
7 environment and public health.

8 We do understand that this is a challenging time
9 in the utility regulatory arena, particularly given the
10 uncertainties of restructuring, but as Michael Douglas said
11 in his role as the "American President," a movie which I
12 commend to everyone in this room as a model of courage and
13 on energy policy issues in particular, "This is a serious
14 time, and it takes serious people to address the challenges
15 that we face." And it is in that spirit that we urge you
16 to scrutinize the plans before you, and in your decisions
17 on this and on other matters, that you lead Florida in a
18 new direction based upon a vision of true sustainability
19 and founded on the public's best interests for now and for
20 the longer term.

21 Thank you for the opportunity to offer comments
22 today.

23 CHAIRMAN JOHNSON: Thank you, Ms. Elder.

24 Commissioners, any questions?

25 COMMISSIONER DEASON: Yeah, I have a question

1 concerning the report card report. I'm looking at page
2 13. Who should I ask that question to?

3 MS. SWIM: Go ahead.

4 COMMISSIONER DEASON: I'm looking at Graph 7, and
5 the -- I guess the description of that is -- starts on page
6 12, but anyway it -- at the top of it it says that less
7 than one percent of all utility energy services were
8 provided to customers by utility energy efficiency programs
9 in 1996. It says that's depicted on Graph 8, but I think
10 that really is Graph 7, is that correct.

11 MS. SWIM: Yeah, I think you're right.

12 COMMISSIONER DEASON: Could you explain to me what
13 that is intended to represent? That's one year, 1996, is
14 that correct?

15 MS. SWIM: This is 1996, and what it represents is
16 the total megawatt hours generated and what -- generate --
17 the total megawatt hours in terms of energy services that
18 all of the investor-owned utilities provide, and --

19 COMMISSIONER DEASON: So the 99.6 percent, that's
20 the total megawatt hours generated by all electric
21 utilities?

22 MS. SWIM: It's the investor-owned --

23 COMMISSIONER DEASON: Investor-owned.

24 MS. SWIM: -- utilities, and it takes the megawatt
25 hours that are generated, adds it to the megawatt hours

1 saved, and that gives you the total.

2 COMMISSIONER DEASON: Okay. Now where you get the
3 number for the megawatt hours saved?

4 MS. SWIM: The sources of that the data at -- of
5 that particular data are the utilities' conservation
6 performance reports that were filed this year.

7 COMMISSIONER DEASON: So that's on file with the
8 Commission?

9 MS. SWIM: Yes.

10 COMMISSIONER DEASON: Now -- so the 99.6 percent,
11 that's total megawatt hours generated in 1996.

12 Now, I'm just asking --

13 MS. SWIM: Well, it's more than just --

14 COMMISSIONER DEASON: Okay. Go ahead, that's
15 fine.

16 MS. SWIM: The circle there, the whole of the
17 circle is the sum of the kilowatt hours generated plus the
18 kilowatt hours saved, and the slice is the portion that is
19 kilowatt hours saved.

20 COMMISSIONER DEASON: The total kilowatt hours
21 that are generated in 1996, that's your base; is that
22 correct?

23 MS. SWIM: No. The base is kilowatt hours
24 generated plus kilowatt hours saved. We see that as the
25 energy services required.

1 COMMISSIONER DEASON: Well, I guess the question
2 I have is that there have been conservation programs
3 implemented in prior years which have resulted in savings
4 in prior years and, obviously, there's not going to be
5 generation to meet a demand that's not there. So you're
6 discounting or ignoring the conservation that has taken
7 place in previous years in this calculation, is that
8 correct?

9 MS. KAMARAS: This is a report card for one year
10 of utility performance. We intend to do this again next
11 year.

12 To the extent that it ignores previous energy
13 savings, it also ignores previous generation. So it
14 compares apples to apples in one given year.

15 COMMISSIONER DEASON: So have you done a study, a
16 baseline study from the beginning of FECA to determine what
17 the generation was then and what it would have been with no
18 conservation programs at all and compared that to the
19 conservation that took place to see what the trend's been
20 over time and what the cumulative effect of all the
21 conservation programs have been over that entire period of
22 time?

23 MS. KAMARAS: We haven't done it since the
24 beginning of FECA, but we did an informal look-back over
25 the last several years that the utilities have been

1 performing under the new conservation goals rule, and the
2 results were not much better.

3 CHAIRMAN JOHNSON: Any other questions?

4 Ms. Kamaras, you had mentioned in your
5 presentation about -- when you used the example with the
6 Cheetos, about what information you thought should be
7 provided to customers, and I think it was -- you -- I'm
8 trying to better understand what you had in mind. On page
9 8 you have a chart that -- of your report card, "What does
10 your utility use to make electricity?" Is that the kind of
11 information that you believe that we should be providing to
12 our customers and, if so, in what fashion? How should we
13 go about better educating them on these issues?

14 MS. KAMARAS: These charts are a little bit
15 complex. Actually there's a lot of work being done right
16 now on the issue of consumer disclosure. The Regulatory
17 Assistance Project in Maine, which provides information to
18 NARUK and to state commissions, has some detailed
19 information about this issue. What they've suggested
20 basically is a nutrition type labeling with perhaps a pie
21 chart showing this much of your energy comes from coal,
22 oil, hydro, solar, and break it out that way, and then to
23 have sort of a graph for the pollution effects with a line
24 against some performance standard that would be designated
25 or against a line showing average regional emissions so

1 that it's very simple. It's a two-part label.

2 CHAIRMAN JOHNSON: Okay. And that would be in
3 their -- something in their bills or --

4 MS. KAMARAS: It would be something in the bill,
5 if not on a monthly basis, then perhaps on a quarterly
6 basis or a semiannual basis.

7 CHAIRMAN JOHNSON: And you said that other states
8 are doing this now?

9 MS. KAMARAS: Other states are looking at
10 this, and I think we need to start looking at it, too.

11 COMMISSIONER CLARK: They're looking at it.
12 They're not doing it, are they?

13 MS. KAMARAS: I don't think anyone has adopted it
14 yet because they're just not there, but it's something to
15 start looking at, and I think, you know, this commission
16 has some experience with the amount of confusion that
17 consumers have experienced in telephone deregulation and
18 the need for a massive and long-term consumer education
19 effort. We can't educate them enough and we can't educate
20 them too soon, and our belief is that we need to start
21 getting them used to this idea now.

22 CHAIRMAN JOHNSON: Okay. And with respect to the
23 green pricing, I don't know if you mentioned it, but it's
24 in here. What are your suggestions there as it relates to
25 the Commission or as it relates to educating the customers,

1 again?

2 MS. KAMARAS: Well, green pricing programs are a
3 start. They're sort of a showcase effort, but again they
4 get the utility and the customer used to the idea of
5 dealing with renewable resources, and in this case, you
6 know, particularly solar power, we commend the utilities
7 that have started green pricing programs. We think that
8 perhaps in the future they may move to green marketing
9 programs where they're doing this as a business venture. I
10 know that Lakeland is looking into something like that and
11 it's very innovative and creative.

12 CHAIRMAN JOHNSON: Could you say that again? I'm
13 sorry to cut you off, but you said Lakeland is looking into
14 doing what?

15 MS. KAMARAS: Lakeland is looking into a green
16 marketing program and, you know, we would be interested in
17 seeing where that goes. Gainesville and Tallahassee are
18 looking into green pricing programs that -- or Gainesville
19 has one. Tallahassee is now starting one. Florida Power &
20 Light is going to begin one, but these are baby steps and
21 we need to go beyond those baby steps if we're really going
22 to have an energy future in this state.

23 COMMISSIONER CLARK: Explain to me the difference
24 between green pricing and green marketing?

25 MS. KAMARAS: Green pricing is basically consumers

1 giving voluntary contributions to a program which the
2 utility may or may not match with its own funds. In the
3 case of the City of Tallahassee, for example, they are
4 going to match any customer contributions 50 percent.

5 In green marketing you're selling a product and
6 the customer's paying for that product. It's not -- you
7 know, it's not something that's a --

8 COMMISSIONER CLARK: They -- in effect, they say,
9 "I want to pay to get my electricity from a renewable
10 resource"?

11 MS. KAMARAS: That's correct. It's not just going
12 out to the world at large.

13 COMMISSIONER CLARK: I would appreciate it if you
14 would keep us informed of the details of what you know in
15 other states and what they're doing. I would assume it's
16 part of just informing the public on their choices, and
17 this is one of their choices. For instance, it may be
18 California that's doing it on the green marketing.

19 MS. KAMARAS: Green marketing is starting to occur
20 in a variety of states, but in the states where we still
21 have a full monopoly system, customers really don't have a
22 choice.

23 Part of what we're hoping from the public
24 distribution of the report card is that customers will
25 start telling their utilities, "Hey, we want more." It's

1 very clear from polls that have been done, surveys done
2 over the last ten years or more -- actually since the
3 mid-'70s -- that there is a huge population out there, a
4 tremendous population -- consistently the polls show in
5 excess of 70, 75 percent of the public wants greener
6 resources and that they're willing to pay more for it if
7 necessary, and the utilities really need to start listening
8 to that.

9 COMMISSIONER GARCIA: Where this pricing is
10 occurring, what kind of price differential is occurring
11 between the green prices and the prices of regular
12 provision of service?

13 MS. KAMARAS: Well, in the green pricing it's
14 really hard to say what the price difference is because the
15 customers are basically buying the equipment for the
16 utility and they're paying, you know, in some cases
17 utility's administrative costs for the program, and
18 there's a range of stuff. There's a wind system in
19 Traverse City, Michigan, and the Sacramento Municipal
20 Utility District has been putting solar panels on people's
21 roofs, and that solar power does not go to that individual.
22 It goes into the grid and it benefits all the Sacramento
23 customers, and the range is, you know, in the contribution
24 programs, anywhere from, you know, a dollar, two dollars a
25 month to the Sacramento program, which is probably about

1 six dollars a month, and I'll mention that the Sacramento
2 program has been so successful that they have driven the
3 price of solar electricity down to where their contracts
4 that they have signed for I believe it's the year 1999,
5 they are purchasing solar electricity power at three
6 dollars a watt, which is the number that has been tossed
7 around as the magic number to make it cost-effective
8 across the board; and if we could do that here in Florida,
9 we would have a golden opportunity to create jobs, you
10 know, keep money in the state, as Marcia pointed out,
11 develop international trade.

12 COMMISSIONER GARCIA: It's certainly something
13 that we might want to consider as experimental to see if
14 there's any demand out there and see if customers are
15 willing to invest in that type of system.

16 MS. KAMARAS: They are, if it's sold right.

17 You know, a lot of it depends -- the survey
18 results you get back depend on the survey questions you
19 ask. We've seen a couple of surveys or questionnaires that
20 have been done by the utilities in the state. They got a
21 poor result. That poor result was built into the kind of
22 questions that were asked.

23 The City of Tallahassee, on the other hand,
24 participated in a nationwide survey that was done by
25 several municipal utilities, and they got back terrific

1 results, and I can't believe that the people in Tallahassee
2 are that much cleverer than the people in the rest of the
3 state of Florida. We'll give them a small increment of
4 cleverness, but not that much more.

5 CHAIRMAN JOHNSON: Any other questions?

6 MS. ELDER: Madam Chair, if I might add to that,
7 with the California program for PV, for at least the last
8 several years, customers have been standing in line to be
9 able to have those systems on their roof. Again, they
10 don't own the system, but it is there as part of the
11 utility's overall system, and they have a long waiting list
12 of customers who, because the program -- they can only put
13 out so many systems, of customers who want to participate
14 in that; and for Florida, it's clear the surveys, as far as
15 the environmental support in our state, as well as the
16 support for these kinds of initiatives, is so very high,
17 but the customer has to have the opportunity before they
18 can take advantage of it, and right now they simply don't
19 have it.

20 The green pricing program, as a voluntary program,
21 it is a good step forward, and at the same time it's a very
22 limited step forward, and it only works, as Gail has
23 pointed out, if the program is designed for success and if
24 it is implemented, and they're being partially implemented
25 at this time. So we'd like to see a much larger step

1 forward towards sustainability.

2 COMMISSIONER GARCIA: I might be curious just to
3 have it costed out based on what's already being done and
4 seeing if you can cover at least those costs, and that
5 gives you a window to begin a marketing perspective from
6 there, but it certainly does present some interesting
7 possibilities, and like Commissioner Clark, I'd love for
8 for you guys to keep us informed.

9 CHAIRMAN JOHNSON: Any other questions?

10 Thank you very much for your comments.

11 MS. KAMARAS: Thank you.

12 MR. HAFF: Following the agenda that we mentioned
13 earlier, we're going to hear from the Florida Reliability
14 Coordinating Council for a statewide assessment and we'll
15 start from there.

16 MR. HERNANDEZ: Do you want me to try to use the
17 mike?

18 CHAIRMAN JOHNSON: Yeah, we'll need you to use the
19 microphone.

20 MR. HERNANDEZ: Good morning, Commissioners,
21 Commissioner Johnson. My name is Tom Hernandez. I'm the
22 Director of --

23 CHAIRMAN JOHNSON: You might have to hold it up a
24 bit more.

25 COMMISSIONER CLARK: Don't we have a lavalier we

1 can give him?

2 MR. HERNANDEZ: I could try sitting.

3 COMMISSIONER KIESLING: I think you need to.

4 MR. HAFF: Commissioners, we -- would you prefer
5 to sit here and look at the screen or can you see the TV
6 okay?

7 CHAIRMAN JOHNSON: Will it show up in our
8 monitors?

9 COMMISSIONER KIESLING: Yeah, it's on our monitors.

10 CHAIRMAN JOHNSON: Yeah, we're fine.

11 MR. HERNANDEZ: Is it legible on your monitors?

12 COMMISSIONER KIESLING: Yes.

13 MR. HERNANDEZ: Let me re-start. My name is Tom
14 Hernandez. I'm the Director of Energy and Market Planning
15 for Tampa Electric Company. This morning I'm representing
16 the FRCC, the Florida Reliability Coordinating Council, and
17 before I start my presentation, would it be appropriate or
18 is it appropriate that I have a follow-up to Commissioner
19 Deason's comments on the report card, 30 seconds?

20 CHAIRMAN JOHNSON: That's fine.

21 MR. HERNANDEZ: Okay. An alternative -- and I
22 agree with your comments regarding the report card, and
23 again I haven't seen the report card. It's probably in the
24 mail or I just haven't seen it yet, but along the lines of
25 what you were suggesting about looking at cumulative

1 benefits I think is on track. The alternative would be to
2 look at the incremental generation from year one to year
3 two and then to use the incremental conservation of energy
4 that was reported in the information that was referred to.
5 So that's a quicker way to look at an incremental benefit
6 and would show a different picture, I believe.

7 COMMISSIONER DEASON: So you're saying that, to
8 get a -- over a long-term period, you need to do it on a
9 cumulative basis to see what the effect of conservation
10 programs have been over the entire period of time, the
11 cumulative effect of that, and if you're going to do it on
12 an incremental basis, you shouldn't be the using total
13 generation, you should be using incremental generation
14 versus incremental savings to get it on an apples-to-apples
15 basis?

16 MR. HERNANDEZ: That's correct.

17 COMMISSIONER DEASON: Thank you.

18 MR. HERNANDEZ: To begin my presentation, what
19 we're -- what my presentation is going to cover is based on
20 the 1997 ten-year plan that was filed with the Commission I
21 believe in July of this year, and also I'm going to refer
22 to last year's plan that was filed with I think the
23 Department of Community Affairs at that time. They may be
24 difficult to see. Is that legible on your screen? Okay.

25 There are black and white copies for the audience.

1 I've got some up at the front and I believe each of you
2 have a copy.

3 This first graph is a comparison of historical
4 firm peak demand for the past ten years on the projection,
5 again stating or showing that, as a peninsula, that we
6 still have continued load growth in the state, fully expect
7 that, with the winter peaks growing at approximately a 2.1
8 percent average annual growth rate over the next ten years,
9 and then for the summer peak, slightly below the two
10 percent, but continued sustained growth for peninsular
11 Florida.

12 Can we take one second? This was showing up
13 better. Something's not quite right with the video here.
14 I think the lamps are off. Could we just take ten seconds
15 and see if we can correct this?

16 All right. This next chart is a comparison of the
17 two ten-year plans, the aggregates that I referred to a few
18 moments ago, for a similar year. So in the first upper
19 left-hand chart, we're looking at the winter firm peak and
20 comparing it for the same year, the winter '97-'98, for
21 both last year's ten-year plan aggregate versus this year's
22 ten-year plan, and effectively what we're showing are
23 higher peaks both in the initial year as well as the last
24 year of the ten-year plan. So we're showing the eight
25 years that are common between the two plans, and that

1 effectively rolls true for the total peak as well as for
2 the summer firm peak and the summer total peak.

3 On an energy basis we're showing a slightly lower
4 average annual growth rate relative to energy, but with the
5 sustained peaks that correlates to a somewhat lower load
6 factor for peninsular Florida.

7 COMMISSIONER DEASON: Could you go back to that
8 previous slide?

9 MR. HERNANDEZ: Sure.

10 COMMISSIONER DEASON: If I'm reading this
11 correctly, as far as winter firm demand -- that's the peak
12 for the winter -- there's been an increase from the '96
13 ten-year site plan to the '97 ten-year site plan both in
14 the near term and the long term, is that correct?

15 MR. HERNANDEZ: That's correct.

16 COMMISSIONER DEASON: And what has caused that?

17 MR. HERNANDEZ: Well, again, this is a compilation
18 of aggregate forecasts. This is not and has not in the
19 past accounted for coincident load or load diversity within
20 the state. So this is simply taking the individual
21 ten-year plans and adding up their respective system peaks.

22 COMMISSIONER DEASON: Well, let me interrupt for
23 just a second. The average annual growth rate in '96 -- in
24 the '96 ten-year site plan was projected to be 1.94
25 percent, and now it's projected to be 2.14 percent, an

1 increase, I can see that.

2 That small of an increase in the percentage
3 increase results in that differential of 38,000 megawatt
4 hours to over 41,000 megawatt hours? I'm talking -- not
5 megawatt hours, but megawatts?

6 MR. HERNANDEZ: No, sir. The average annual
7 growth rate applies to the initial year and the final year.
8 It doesn't account for the increase going from last year's
9 forecast to this year's forecast.

10 COMMISSIONER DEASON: Okay.

11 MR. HERNANDEZ: But it is higher.

12 COMMISSIONER DEASON: All right. Thank you.

13 MR. HERNANDEZ: This next chart is simply --

14 COMMISSIONER DEASON: Let me interrupt you one
15 more time. You also indicated that the load factor is less
16 because of the -- the peak is going up and the energy usage
17 is not going up as much, but the net effect of those two is
18 that still there is a net reduction in load factor. Do you
19 have --

20 MR. HERNANDEZ: Yes, sir, comparing the two
21 different aggregate plans, that's correct.

22 COMMISSIONER DEASON: From '96 to '97?

23 MR. HERNANDEZ: That's correct.

24 COMMISSIONER DEASON: Do you have any other
25 information other than that's just the information that was

1 compiled? Do you know of any trends or anything that would
2 account for that?

3 MR. HERNANDEZ: No, sir, I don't.

4 I do understand that the incremental effects as
5 well as the cumulative effects of conservation programs and
6 the impact on reducing energy are included in that
7 calculation or that assessment.

8 This next chart is a quick summary of what I will
9 call dispatchable DSM. It's the load management and
10 interruptible load that we use in calculating the firm peak
11 as well as calculating the reserve margin, and you'll see
12 the contribution to reserve margin at the end of my
13 presentation.

14 This next chart indicates not only the load
15 management and the interruptible load but the effective
16 impacts of self-service cogeneration or energy producer
17 capacity generated by qualifying facilities, as well as the
18 effects of conservation associated with peak reduction, and
19 this is for the summer. So in the year 1997, we're showing
20 approximately 35 -- 3,350 megawatts of capacity or energy
21 resource that effectively reduces the firm peak of
22 peninsular Florida, and then, looking out in the ten-year
23 horizon, that increases to a little over 5,000 megawatts.

24 COMMISSIONER CLARK: I'm sorry, could I go back to
25 the peninsular Florida summary of dispatchable DSM? Did

1 you say those percentages were percentages of the margin of
2 reserve or of total load?

3 MR. HERNANDEZ: That is a percentage -- it's a
4 relative percentage using the winter numbers of the total
5 amount of dispatchable DSM in the state. This doesn't
6 correlate to reserve margin calculation. What I was
7 suggesting is that, when we calculate the firm peak and the
8 firm reserve margin calculation, these are the numbers that
9 we're subtracting from total peak in order to contribute to
10 reserves. So those percentages are just relative to the
11 total of 3,440 megawatts. So, for example, Florida Power &
12 Light has 1,056 megawatts that represents 30.7 percent of
13 the 3,440. It's just showing relative contribution to
14 dispatchable DSM in peninsular Florida. That's what those
15 numbers are --

16 COMMISSIONER CLARK: Okay.

17 MR. HERNANDEZ: -- this chart we already talked
18 about.

19 COMMISSIONER DEASON: But before you leave that
20 chart, I get from that chart that conservation -- the
21 conservation area there is doubling from 1997 to 2000 --
22 perhaps more than doubling, and that accounts for a large
23 amount of the increase from '97 to 2006. Am I reading that
24 correctly?

25 MR. HERNANDEZ: That's correct, both -- you don't

1 see a big change in interruptible load, but the
2 conservation as well as the load management are accounting
3 for the biggest part of that increase.

4 COMMISSIONER DEASON: Now, this is part of the
5 Commission-approved goals and the conservation programs
6 that are being implemented to achieve those goals?

7 MR. HERNANDEZ: I'll say yes, but I'm not sure to
8 what extent everyone included the exact numbers that were
9 represented as a result of the goals proceeding, but I
10 believe that is what is shown here.

11 A similar chart for the winter. The main point
12 here again is to show higher potential of load reduction
13 over the winter months and at the time of our peninsular
14 Florida peak. So the 5,000 -- roughly 5,000 megawatts by
15 the end of year 2006 is closer to 6200 megawatts for --
16 using the same resources but over the winter months, we
17 have a higher potential for load reduction.

18 The next chart again reflects the incremental
19 contributions versus the cumulative to address that point
20 again, but what you see in here is the energy reduction
21 and, therefore, generation reduction in terms of producing
22 -- having the need to produce power utilizing these same
23 four resources, where we're at in 1997 and where we go to
24 the year 2006, and we're showing gigawatt hours now versus
25 megawatts.

1 And again, to look at what is the biggest
2 contribution, self-serve cogeneration or qualifying
3 facilities as well as conservation are the main
4 contributors here.

5 Load management, as we heard earlier, in some
6 cases is somewhat neutral relative to energy reduction, but
7 it does have an effect on some systems, but as you can see
8 from the chart, it's not a significant energy reduction.
9 It's much more available as an operating resource and
10 deferring new generating plant.

11 COMMISSIONER DEASON: What you're saying is that
12 the main reason for load management is to shift the load
13 from peak to off-peak, but it does have a conservation
14 effect in terms of energy in megawatt hours as opposed to
15 megawatts?

16 MR. HERNANDEZ: That's correct.

17 COMMISSIONER DEASON: And that's what's shown in
18 this graph?

19 MR. HERNANDEZ: Yes, Commissioner.

20 The next chart reflects the existing generating
21 plant that's located within peninsular Florida by utility,
22 and basically what we're showing is a slight increase in
23 capacity over the winter months. This has to do with
24 thermal efficiencies due to cooling water temperature and
25 ambient air temperature, but roughly we're showing 35,000

1 to almost 37,000 megawatts of capacity as of January 1 of
2 this year. So it does not include planned and proposed
3 facilities, and the percentages are relative to the total
4 capacity.

5 Another supply-side resource to consider in
6 calculating reserve margin and looking at the reliability
7 of peninsular Florida is to consider what can be imported
8 as well as exported across the -- our transmission ties to
9 the north. What this chart shows are the relative ratings
10 for both the winter and summer for import capability, which
11 is what we're primarily concerned about in terms of
12 purchases to contribute to reserve margin as well as to
13 meet load, but also the export. The export also has to be
14 considered when you start factoring what is the net amount
15 that contributes to the reserves or to the load in the
16 state.

17 MR. HAFF: But before you leave that slide, I
18 guess this is a good time to ask this question. What is
19 each utilities' firm share of that transfer capability on
20 import? Do you happen to know those numbers or is that
21 something I should ask each of the utilities?

22 MR. HERNANDEZ: There are four utilities that have
23 the allocation, if you will, of that interface, and I think
24 it would be more appropriate to ask them what their
25 allocation amount is.

1 MR. HAFF: Okay.

2 COMMISSIONER CLARK: Do you know whether that
3 allocation exceeds the whole?

4 MR. HERNANDEZ: I believe it totals to the 3600
5 megawatts we're showing as import.

6 COMMISSIONER CLARK: Do we do much exporting?

7 MR. HERNANDEZ: I believe -- I'm going to draw on
8 memory for -- in the first year of 1997 plan, we're showing
9 1650 megawatts firm import and I believe 350 megawatts firm
10 expert, for a net of 1300 megawatts firm import, but again,
11 that would be on a utility-by-utility basis as to who they
12 have contracts with.

13 COMMISSIONER DEASON: Before you leave that slide,
14 the import capability in winter is 3600 megawatts, and the
15 UPS purchases plus Scherer add to about 2550. What
16 accounts for the difference? Is that unused import
17 capability or is that import capability being used by other
18 things than UPS and Scherer?

19 MR. HERNANDEZ: It's being utilized by other
20 economic purchases.

21 COMMISSIONER DEASON: But there is another 1,000
22 or 1100 megawatts as you're indicating, that can still be
23 imported on a firm basis, but right now it's being computed
24 on an economic dispatch basis. If it were determined it
25 would be available, that would be capacity to serve on a

1 firm basis?

2 MR. HERNANDEZ: That's correct, economic
3 transactions, broker type transactions, we don't consider
4 those when we assess reliability. So it's not factored in
5 at this point.

6 COMMISSIONER DEASON: Okay. Is that something
7 that the utilities in the state are generally looking at,
8 the fact that there is apparently some capacity that could
9 be utilized on a firm basis to import?

10 MR. HERNANDEZ: Commissioner, I still believe that
11 that's more of an individual utility issue. Again, it goes
12 back to who has the allocation of what's available as well
13 as what's going on with the market. That isn't an issue
14 that I believe is -- other than from an operating
15 perspective, is being addressed, nor needs to be at this
16 point from a reliability perspective. It comes down to
17 economics.

18 COMMISSIONER DEASON: So you're saying each
19 individual utility that has an allocation of that import
20 capability, they just include that in their overall
21 planning, determine what is economic for them, and then
22 that is compiled and then you're just showing the summary
23 data here?

24 MR. HERNANDEZ: That is correct.

25 COMMISSIONER DEASON: Who are the utilities which

1 have that, other than Florida Power & Light and Power Corp.
2 that have an allocation of that capability?

3 UNIDENTIFIED SPEAKER: JEA.

4 COMMISSIONER DEASON: JEA.

5 UNIDENTIFIED SPEAKER: Tallahassee.

6 COMMISSIONER DEASON: And Tallahassee, okay.

7 MR. HERNANDEZ: This one's a little difficult to
8 make out, but it's simply to represent the contribution to
9 -- on the generation side. So it excludes the effects of
10 conservation but it is intended to show what type of fuel
11 is being used to generate the capacity and the energy
12 that's required to meet our peninsular Florida
13 requirements.

14 A couple of points to make here is, if you look
15 across, again on the incremental, going from 1997, 178,000
16 gigawatt hours, to the year 2006, it's roughly 219,000
17 gigawatt hours. The increment there is roughly 42,000
18 gigawatt hours, and when we start looking at incremental
19 resources and utilization of resources, I think that, you
20 know, that needs to be considered. You've got to look at
21 existing resources as well as what's being added and how
22 they plan to be utilized.

23 We're doing this on an aggregate basis, but it
24 really comes down to utilization of those resources are
25 utility dependent, and again gets back to economics and

1 cost-effectiveness.

2 COMMISSIONER KIESLING: How realistic is it on the
3 2006 to have almost five percent of the generation from
4 orimulsion?

5 MR. HERNANDEZ: I missed the first part of your
6 question, Commissioner.

7 COMMISSIONER KIESLING: How realistic is that
8 projection? I mean it's --

9 MR. HERNANDEZ: I believe that's what Florida
10 Power & Light is showing in terms of their ten-year plan.
11 To the extent that, if we were to displace that with other
12 fuel, I think that's a Florida Power & Light issue. That
13 is what they showed in their ten-year plan.

14 COMMISSIONER KIESLING: Okay. Thank you.

15 COMMISSIONER DEASON: The purchases are increasing
16 as well. Is that increased purchases through import,
17 through the import capability we spoke about earlier?

18 MR. HERNANDEZ: It's a combination of firm as well
19 as economic purchases. When we start talking about
20 generation, if there's displacement on an economic basis
21 from a resource that's outside the state, if you will, that
22 would be included here.

23 COMMISSIONER DEASON: Okay.

24 MR. HERNANDEZ: This next chart indicates the
25 incremental resources which now includes the effects of

1 load management, interruptible customer and conservation
2 programs. Looking at the ten-year period from 1997 to the
3 year 2006, we're using the summer number or summer megawatt
4 ratings here just for reference purposes, but effectively
5 looking at approximately 6,000 megawatts of additional
6 energy resources. So we've got supply- and demand-side
7 resources here.

8 Looking at the demand-side resource, approximately
9 one-third of the incremental resources to meet our growing
10 state needs will be supplied by DSM, specifically those
11 three areas that I've got on the chart. Combined cycle and
12 combustion turbine seems to be the technology of choice,
13 with some additional import capacity as we just mentioned,
14 relatively little increase in fossil steam, and again,
15 looking at the relatively shorter construction lead times
16 and flexibility that combustion turbine and combined cycle
17 capacity offers.

18 COMMISSIONER DEASON: Now, this goes back to the
19 question that I asked about the report card. You're doing
20 this on an incremental basis in the sense that is
21 incremental generation and then incremental conservation as
22 a percent of that incremental generation?

23 MR. HERNANDEZ: That's correct. In this sense,
24 though, we're looking not at one year but over the ten-year
25 planning horizon.

1 COMMISSIONER DEASON: Now, that category which
2 comprises 32 percent, which is load management,
3 interruptible and conservation, do you know the amount of
4 that which is conservation?

5 MR. HERNANDEZ: It's approximately just under
6 1,000 megawatts.

7 COMMISSIONER DEASON: So approximately half of
8 that 32 percent then would be conservation?

9 MR. HERNANDEZ: That's correct.

10 COMMISSIONER DEASON: Okay. Thank you.

11 MR. HAFF: While we're on that subject, I was
12 going to ask this at the end, but staff -- we're wanting to
13 see what the annual last, I guess, forecasted ten years are
14 of conservation as an aggregate. We don't have that
15 information in the plan, just load management and
16 interruptible. Is there a way we could get that on an
17 aggregate basis?

18 MR. HERNANDEZ: To isolate the conservation?

19 MR. HAFF: Correct.

20 MR. HERNANDEZ: I'd have to check back with the
21 folks at the FRCC, but I'm not sure at this point. I don't
22 have that information available today.

23 MR. HAFF: Okay. I'm trying to -- who would we
24 ask, I guess, for that, because getting back to what LEAF's
25 report said and some of the questions we've heard here,

1 we'd also like to know what the annual energy savings are
2 as a comparison to net energy for load on an annual basis
3 so we can look at those as well from an aggregate
4 viewpoint?

5 MR. HERNANDEZ: Okay. I understand the individual
6 utilities have those calculations. I'm just not sure if
7 they're being collected at this point under the FRCC. So
8 we'd have to check on that.

9 MR. HAFF: Okay. If so, we'd like to get that.

10 MR. HERNANDEZ: This next chart is -- reflects the
11 projected reserve margins for the summer period and it's
12 broken down into three components showing the firm peak.
13 That is the larger blue bar. The next increment is
14 capacity. That's capacity over and above what the firm
15 peak would be. And then the load management and
16 interruptible.

17 In this calculation the firm peak has already been
18 reduced by the effects of conservation. So the 1,000
19 megawatts or so are already pulled out over the years on an
20 incremental basis so that the firm peak has that effect in
21 it, and we're just showing the dispatchable generating
22 resources as well as the load management, and then the
23 calculated reserve margin is shown above each bar.

24 A comparison of the summer reserve margins to the
25 1996 ten-year plan aggregate indicates a slight reduction

1 in projected reserve margins, but still adequate,
2 especially over the next five years, and again referring
3 back to the flexibility that utilities have in terms of the
4 type of capacity that we've selected in terms of meeting
5 the growing needs of the state.

6 COMMISSIONER DEASON: This shows a reduction in
7 the reserve margin for summer peak from the '96 study to
8 the '97 study, and you say that it still is acceptable at
9 least for the first five years. What about the next five
10 years?

11 MR. HERNANDEZ: I would still say it's acceptable,
12 Commissioner, for a variety of reasons. I'm not sure if
13 you want me to talk about the winter before I get into the
14 adequacy concern.

15 COMMISSIONER DEASON: Well, the winter doesn't
16 even -- I mean, winter seems to be more critical than the
17 summer. If you've got some generic subjects you want to
18 talk about, we can go ahead and to the winter and then you
19 can discuss it.

20 MR. HERNANDEZ: Okay. Because that will be the
21 end of my overheads.

22 A similar chart, again for peninsular Florida,
23 firm reserve margin for the winter now, and again keep in
24 mind that we were showing higher winter peaks. This -- so
25 as an aggregate, we're still showing the state as a

1 winter-peaking system, but certainly we're reviewing what
2 happens over the summer in terms of expected reserves.

3 A similar story here in terms of how it's
4 represented, declining capacity, available capacity above
5 firm peak and showing the risk margins slightly lower,
6 again attributed to the higher peaks.

7 MR. HAFF: This really concerns the staff because
8 -- particularly in light of the fact that there's no
9 capacity driving that reserve margin. It's all load
10 management interruptible and, furthermore, it goes below 15
11 percent, I guess, in three years.

12 What's the primary cause for the drop to eight
13 percent?

14 MR. HERNANDEZ: There's -- relative to the
15 calculation, the thing I just mentioned where the higher
16 peaks -- if you'll recall one of my earlier overheads
17 showed the difference in winter peak. The aggregate winter
18 peaks are anywhere from 1600 -- or 1200 to 1600 megawatts
19 higher. So that directly -- that by itself directly cuts
20 into the calculation of the firm reserve margin.

21 MR. HAFF: Is there any plans to build capacity to
22 meet those increased peaks on an aggregate level? I mean
23 --

24 MR. HERNANDEZ: If I can go through this last
25 chart, then I'll start addressing those issues and it will

1 complete this part of the presentation.

2 MR. HAFF: Okay.

3 MR. HERNANDEZ: This is a similar graphic
4 comparing last year's ten-year plan versus this year's
5 ten-year plan. It does reflect a decrease in both the
6 initial five-year planning horizon and a bigger increase
7 over the last five years, in the five to ten-year planning
8 period.

9 To address both your comments, Michael, and
10 Commissioner Deason's, first off, we are indicating lower
11 reserve margins for peninsular Florida. What I've
12 mentioned before is that, looking at the incremental
13 resources that are being planned in general, we're looking
14 at gas-fired, oil-fired, combustion turbines and combined
15 cycle units that have relatively lower or shorter
16 construction lead times and permitting times. If you're
17 looking at existing generating plant sites that have
18 already been sited and permitted, in peninsular Florida we
19 have approximately 9,000 megawatts of additional capacity
20 that can be built on sites that are either already sited or
21 permitted or already have new plant.

22 For example, for Tampa Electric, we got the Polk
23 Unit 1 and the site that was permitted, that was permitted
24 for 1150 megawatts. We put a 250 megawatt combined cycle
25 unit on there. So we've got 900 megawatts of additional

1 capacity that can be constructed at that site. It doesn't
2 preclude the fact that you've got to go in for permitting
3 for a combustion turbine or a combined cycle, and that
4 does have some time, but looking at, for example,
5 combustion turbine, we're assuming a 24-month lead time
6 once we identify the need versus the time that we can put
7 the plant on the ground and be operable, and this story may
8 be a little different, again, on a utility-by-utility
9 basis, but the fact that we have 9,000 megawatts of siting
10 that's already been developed or readily available, what
11 you're looking at are the permitting times on a
12 unit-by-unit basis as well as the purchase time to drop in
13 a combustion turbine and a combined cycle.

14 At an existing site that's relatively easier to
15 accommodate versus developing a green field site.

16 MR. HAFF: What about the lead time for adding a
17 new gas pipeline to serve all this electric demand?

18 MR. HERNANDEZ: The gas availability issue I think
19 is more of an economic issue versus a reliability issue.
20 To the extent that folks are planning to build dual
21 fuel-fired combustion turbines or combined cycle units, you
22 can set up your system to readily have distillate oil or
23 alternative fuel to the extent that the gas and where you
24 get the gas -- that issue can be developed on a
25 utility-by-utility perspective versus looking at this from

1 a peninsular Florida perspective.

2 MR. HAFF: Well, from a peninsular perspective,
3 most if not all the additions are going to be -- that are
4 in the plan are gas-fired, combined cycled and combustion
5 turbine, and even with the units that are shown in this
6 plan, we're still looking at an eight percent winter
7 reserve margin, and I guess we're just trying to figure out
8 what happens if all of a sudden every utility wants to put
9 these CTs in with 24 months of lead time and there's no gas
10 to serve them. I mean, that's a critical concern we have
11 about the, you know, out years of this plan.

12 MR. HERNANDEZ: Again, I believe it's more of an
13 economic issue, a cost-effectiveness issue that needs to be
14 addressed by different utilities.

15 Different utilities are going to have different
16 options in terms of how they secure their gas contracts in
17 order to run these units, but you've got to look at usage
18 of the plant. If someone's looking at a very high load
19 factor for a combustion turbine and combined cycle because
20 that type of capacity is becoming much more efficient, they
21 may be more inclined to firm up gas. If a system is
22 looking at a relatively low utilization of that capacity,
23 then for economic reasons it does not -- it makes less
24 sense to go ahead and firm up the gas because you've got
25 the option to run the unit on an alternative fuel, and to

1 the extent that you do not impact the capacity or the heat
2 rate and it's basically a tradeoff on the cents per million
3 on the fuel choice, it is an economic situation, not a
4 reliability issue.

5 So to the extent that you've got short
6 construction lead times and relatively shorter permitting
7 times for the 9,000 megawatts or so of existing site that
8 I've mentioned before and the fact that it really gets down
9 to a utility-by-utility analysis, I'm not concerned about
10 showing lower reserve margins in the out years.

11 Looking at the first five years in both the winter
12 and summer, I believe we are -- we do have adequate supply
13 resources, planned and proposed, for both winter and the
14 summer, and we have the flexibility for each utility to
15 address those issues down the road.

16 COMMISSIONER DEASON: What I hear you saying is
17 that we don't need a ten-year site plan, we need a
18 five-year site plan?

19 MR. HERNANDEZ: I'm not suggesting that.

20 COMMISSIONER DEASON: Well, what you're saying is
21 we've got these projections for ten years, and it's
22 unacceptable in the later years, but you're telling us,
23 don't worry about it because we have enough sited area,
24 locations, and we have short lead times, short construction
25 times, so there's no need to worry about the later years.

1 As long as we've got things covered for five years, we're
2 okay. That's what I hear you say. Now, if that's not what
3 you're saying, correct me.

4 MR. HERNANDEZ: Generally that's correct, and the
5 reason I think we're okay in saying that is, looking in
6 years past where other generating plant that had longer
7 lead times -- for example, a fossil fueled, base load coal
8 unit has a much longer, eight to nine year, construction
9 lead time, let alone nuclear. So I think, relative to
10 individual utility planning, you've got to have a much
11 longer look. You've got to look at different options and
12 different alternatives under different scenarios, load
13 growth assumptions, capital cost assumptions.

14 I guess what I'm saying is, given the fact that
15 looking at the next five years and the expandability that
16 this state has to drop new generating plant that's very
17 efficient, absent of the gas availability issue, which I
18 think is, again, utility specific, that we're okay to show
19 in the long term smaller reserve margins than we have in
20 the past.

21 To the extent that folks -- the economics turn
22 around and folks are looking at technologies that have much
23 longer lead times, that's why you want to look at a
24 ten-year plan.

25 COMMISSIONER DEASON: Well, let's look at the

1 fifth year, and I'm looking at the winter reserve margin
2 year 2001 and 2002, that winter. It indicates 11 percent
3 with a minuscule amount of actual generation capacity above
4 the projected winter peak demand. Is that acceptable?

5 MR. HERNANDEZ: Again, this is an aggregate, and
6 it's difficult to assess what the impact would be on any
7 individual utility, but --

8 COMMISSIONER DEASON: No. What you need to -- I'm
9 going to be very polite, but what you need to realize --
10 you're sitting there saying, "Well, this is an aggregate
11 and each individual utility needs to make economic
12 decisions" and all that. That's fine and dandy, but this
13 commission has the responsibility to make sure that there
14 is adequate capacity for the entire state, not each
15 individual utility, and it's not going to do a lot of good
16 if one utility has adequate capacity and another doesn't
17 and there's no way for there to be sharing of that
18 capacity, and when there are brownouts and blackouts and
19 things of that nature, that's where the rubber meets the
20 road and that's where we have failed in our responsibility.
21 Do you agree with that?

22 MR. HERNANDEZ: I agree that that is your
23 responsibility.

24 COMMISSIONER DEASON: All right. Now, perhaps I
25 interrupted, and I apologize. Is what is shown there at 11

1 percent acceptable in the year -- in the winter for 2001
2 and 2002?

3 MR. HERNANDEZ: I would say yes, and the reason
4 why I would say yes are two-fold. Again, it reflects back
5 that we have the potential -- in looking at what's
6 happening with the market in Florida -- and, again, we're
7 focusing on the winter peak. If you go back over the past
8 -- let me divert just a second. If you go back over the
9 past five years, we've had relatively mild winters. Except
10 for the '95-'96 winter, we were pretty much 1,000 megawatts
11 or so below forecasted peak, and again, just to reiterate
12 what I've said before, this does not account for load
13 diversity. This is a compilation, just a simple adding up
14 of all the loads in the state. So you've got load
15 diversity across the state that could account for a further
16 reduction of four percent -- four to five percent, if you
17 look at time of use and time of system peak. So that's
18 another piece that --

19 COMMISSIONER DEASON: Now, let's talk about the
20 load diversity. You're saying this is a compilation and
21 that this is each individual's forecasted winter peak, and
22 then when all added to -- actually when the winter peak
23 occurs, it's probably not going to be as high as each
24 individual utility's forecasted peak because there's going
25 to be some diversity in that?

1 MR. HERNANDEZ: That's correct.

2 COMMISSIONER DEASON: Now, it seems to me that
3 when we have a really severe crunch on energy demands in
4 Florida is when a cold front comes through Florida and goes
5 all the way down to Miami, and that's just about the entire
6 state, and it's not going to be a situation where it's
7 going to be warm in Fort Myers and cold in Miami. It's
8 going to be cold in Fort Myers and cold in Miami, at least
9 in the winter situation.

10 Now, I can understand in summer peaks, when you
11 have a really hot spell, you're probably going to have some
12 areas of the state that are going to have some thunder
13 showers. They're going to be cooler and there's going to
14 be less demand, but you don't have that in winter, unless
15 there's something I'm missing. So please educate me.

16 MR. HERNANDEZ: Again, it's directly attributed to
17 the weather, and if we have a cold snap that comes across
18 the whole state, then I agree with you, but often that's
19 not the case. It has happened in the past. Christmas '89,
20 you know, that did happen. We had a cold snap over several
21 days, and what happens is you do exactly what we're
22 showing: You implement load control. You go to your
23 non-firm load resources, and that's what we're showing,
24 again, in that fifth year, that you're at that point where
25 you're down to just -- well, it's less than one percent of

1 capacity that's on the ground, but the good thing is, in
2 terms of looking at, again, the --

3 COMMISSIONER DEASON: And here again, I hate to
4 interrupt, but that one percent of capacity on the ground,
5 is that all capacity that is projected to be available at
6 that time, realizing that some units are going to be down
7 perhaps for maintenance and some are going to be down on
8 forced outage, or is that everything that we have on our
9 books, it's assumed that it's up and running and ready to
10 respond when that cold snap hits?

11 MR. HERNANDEZ: This calculation accounts for
12 expected outages or units that are on reserve, reserve
13 standby or long-term reserve standby. It does not account
14 for forced outages. I mean, that's the whole point of
15 having a reserve margin is to have that flexibility to
16 cover variances in load as well as variances in available
17 capacity. This also does include all the firm contract
18 capacity purchases, both on a -- well, from a statewide
19 perspective, what you're concerned about is what's coming
20 across the interstate --

21 COMMISSIONER DEASON: Would you agree that at
22 least in the history of the -- was it the '89 freeze or
23 whenever it was -- that the fact that we had some extremely
24 cold weather seemed to have some impact on the fact that
25 there were going to be some forced outages? Things happen

1 at power plants that -- when it gets really cold, that you
2 don't really normally anticipate and perhaps could trigger
3 an outage at a plant that would normally not have occurred?

4 MR. HERNANDEZ: That's correct, those things do
5 happen. But again, I go back to, that's why you carry a
6 reserve margin. To the extent that reserve margin is made
7 up of a mixture of supply-side and demand-side resources, I
8 think at this point -- again, looking through the five
9 years, I think 11 percent, with a significant piece of that
10 11 percent as being load management and not firm load, is
11 acceptable at this point. And again to stress the fact
12 that over the next couple of years, if we continue to see
13 or expect that peaks are going to be at what we're showing
14 right now in this plan, then we have the flexibility and
15 adaptability to recover and put plant on the ground sooner,
16 and again I think that's --

17 COMMISSIONER CLARK: What was your time frame
18 again for putting a plant on the ground?

19 MR. HERNANDEZ: A combustion turbine at an
20 existing site -- and, again, this would vary,
21 utility-specific, but approximately six months for
22 permitting and 18 months to select a vendor and drop it on
23 an existing site and tie it into the facilities that are
24 already there. That would be short end, two years, 24
25 months.

1 Combined cycle, 36 months is what we're assuming
2 at an existing site.

3 COMMISSIONER CLARK: Aren't you also assuming the
4 utilities will build it?

5 MR. HERNANDEZ: I'm sorry?

6 COMMISSIONER CLARK: Aren't you also assuming that
7 the utilities will build it?

8 MR. HERNANDEZ: In this scenario, we are not --
9 we're only including what's planned and proposed.

10 COMMISSIONER CLARK: Let me ask it a different
11 way. To the extent you push the envelope and you wait as
12 long as you can, you diminish your options and you will be
13 -- the utilities will be the only entities that have a site
14 permitted, so they'll be the one who puts up the plant.

15 MR. HERNANDEZ: Versus other market entrants?

16 COMMISSIONER CLARK: Yes.

17 MR. HERNANDEZ: But I guess I would --

18 COMMISSIONER CLARK: Is that correct?

19 MR. HERNANDEZ: I would say, if we have 9,000
20 megawatts of site, and to the extent that the market
21 supports other new market entrants into the state and
22 they're accessing or have access to that site -- again,
23 that's not a utility-by-utility basis -- I can't say it
24 would just be the utility building the plant. There may be
25 the emergence of other energy providers or generators in

1 addition to a co-generation facility that's not planned
2 right now.

3 COMMISSIONER DEASON: But I think what
4 Commissioner Clark is suggesting is that we're going to --
5 if we find ourselves -- if the projections go out in a way
6 -- perhaps the demands increase more than projected and
7 perhaps other things happen and we get into really a
8 crunch, that we're going to be in an emergency situation
9 and that the only alternative is going to be for the
10 utility to build something on their site and do it in 24
11 months, and you can't go through a competitive bidding
12 process because the time doesn't allow it, and then do we
13 respond that we are meeting our obligation to ensure that
14 least-cost sources of supply are actually being generated
15 or being constructed?

16 COMMISSIONER CLARK: That's exactly right.

17 COMMISSIONER HERNANDEZ: I would agree with what
18 you're saying, but I would say that that's more -- it again
19 goes back to a utility-by-utility basis. In the aggregate,
20 at this point, I think we're okay.

21 COMMISSIONER CLARK: That's not answering the
22 question. To the extent you push out as much as you can
23 putting off building it, you limit who has the opportunity
24 to build it, and the utilities are in a much better
25 position because you already have permitted sites.

1 Do you know of any independent power producer that
2 has a permitted site it can use?

3 MR. HERNANDEZ: I'm not aware of any, no.

4 COMMISSIONER CLARK: I'm not either.

5 MR. HAFF: I'd just like to jump in. What Leslie
6 passed out a few minutes ago was a projection of capacity,
7 demand and reserve margin from the 1989 APH hearing, which
8 was the last statewide planning hearing that we had, and
9 the second page shows winter reserve margin, and I'd just
10 like you to note the level of reserve margins that the
11 peninsula was projecting to carry at the time, and
12 particularly I guess it was the first or second line, the
13 Christmas freeze of '89, we were projecting over 25 percent
14 reserve margin, and so, you know -- and like you, I
15 question the reasonableness of 11 percent.

16 And I guess another question I had was the plan to
17 build CTs in a short lead time to drop them into existing
18 sites, if there's no gas, you're saying that you're going
19 to burn oil as a contingency, are you not?

20 MR. HERNANDEZ: That's correct, at least for Tampa
21 Electric. That may be different for other utilities.

22 MR. HAFF: Okay. Do you feel like the fuel
23 adjustment clause should allow you to continue to recover
24 those costs?

25 MR. HERNANDEZ: I guess -- why not?

1 MR. HAFF: You know, we're -- you know, we see in
2 the plan the reserve margins, and you've shown the
3 Commissioners the reserve margins. We haven't had a
4 peninsular or statewide loss of load probability study in a
5 number of years, and we -- the staff is not comfortable.
6 What amount of reserves for this state would be equivalent
7 to a, you know, one-day-in-ten-year loss of load
8 probability. For example, in the past, it was a lot higher
9 because units were not as reliable as they are now, and I
10 guess what we'd like to see is, you know, an LOLP study for
11 peninsular Florida to, you know, give us some comfort that
12 these reserve margin numbers, as you say, are acceptable.
13 I don't have any comfort at all and I don't think any of
14 the staff does.

15 MR. HERNANDEZ: Well, along the lines of what is
16 an appropriate reliability assessment criteria, you
17 referred to the 1989 APH. At that point in time, as a
18 state when we were doing the -- really running models on
19 the state, we had used the 0.1 assisted loss of load
20 probability. Through time we moved away from that in terms
21 of making that assessment because there are a lot of
22 complex issues in terms even assessing that calculation for
23 the state.

24 The reserve margin calculation is straightforward,
25 relatively straightforward to assess assisted loss of load

1 probability. There's a lot of other factors related to
2 transmission, operating issues. You get into effectively
3 having to -- modeling the available resources across the
4 ties to the north, and that's -- in a competitive age,
5 that's very difficult to have that information available,
6 not only within peninsular Florida, but outside that, to
7 effectively -- you've got to know loads. You've got to
8 know unit availabilities. You've got to know maintenance
9 outage schedules. There's a lot of things in order to
10 calculate an assisted loss of load probability, and I think
11 where we're at from an FRCC perspective is -- and perhaps
12 Henry Southwick could address that in a little more detail,
13 but we've formed a working group, a reliability assessment
14 group that's going to further address this issue and try to
15 identify what are the relevant issues that need to be
16 considered in assessing the reliability of peninsular
17 Florida in the aggregate.

18 COMMISSIONER DEASON: So, are you saying that,
19 because of changes in the industry and the shadow of
20 competition, that a peninsular Florida loss of load
21 probability study is -- can't be done?

22 MR. HERNANDEZ: Very difficult, and it goes beyond
23 just sharing information within the state. You also need
24 to -- because it's an assisted loss of load probability,
25 the amount of capacity, supply-side capacity that's

1 available across the ties is important, and so you've got
2 to share information or obtain information that also
3 assesses the adequacy of a neighboring region that's going
4 to provide that support over the ties.

5 COMMISSIONER DEASON: Okay. Now, you've got firm
6 capacity for a lot of that tie line capacity, right?

7 MR. HERNANDEZ: That's correct.

8 COMMISSIONER DEASON: Okay. Now -- so then you're
9 talking about availability of generation in excess of what
10 is already on a firm basis?

11 MR. HERNANDEZ: That's correct, again, for
12 emergency reasons, not economic. And again, to even
13 address if LOLP is the appropriate criteria, there are
14 other measures of reliability that need to be considered or
15 should be, and not just move back to a 0.1 assisted LOLP.

16 COMMISSIONER DEASON: Well, what are the other
17 criteria that can be utilized other than loss of load
18 probability and reserve margin, because you've got staff
19 saying they don't think this -- your reserve margin
20 calculation's good enough?

21 MR. HERNANDEZ: Well, just for example, expected
22 unserved energy is another indicator that -- in fact, it's
23 one that Tampa Electric has now adopted that captures both
24 magnitude and frequency because it's expected unserved
25 energy gigawatt hours. Loss of load probability only gives

1 you the frequency it. It doesn't tell you how short you're
2 going to be in terms of capacity. You can be one megawatt
3 short or you can be 1,000 megawatts short. It's still a
4 loss of load probability.

5 So that's just one example, but I think a lot of
6 these things are going to be discussed at the FRCC to try
7 to get a better handle on this.

8 COMMISSIONER DEASON: Well, you indicated an
9 expected unserved energy. Is that something -- it seems to
10 be even a more detailed and precise calculation than the
11 loss of load probability. How is that -- how can you
12 perform that on a peninsular basis if you can't do the LOLP
13 on a peninsular basis?

14 MR. HERNANDEZ: It's similar to the extent that it
15 has some data requirements but not nearly as much. To the
16 extent that you've got to factor in generation available at
17 the time when the load requirements are, that has to be
18 determined somehow, and I think all -- a lot of this has to
19 get fleshed out at the FRCC and the couple of the working
20 groups that they've formed to further identify how can we
21 do this.

22 Again, with other market entrants as another
23 issue, you know, you've got to be able to have access and
24 -- to information, and I'm not sure to what extent that new
25 market entrants are going to provide that information.

1 What are their plans? Do we know what their plans are?
2 Are they going to build capacity? Was is their intent?

3 A lot of that has to get factored in in order to
4 do an EUE calculation or a loss of load probability. Who
5 plans to build and when?

6 MR. HAFF: I was just going to say that I
7 understand the FRCC can't get this utility-specific data to
8 do an LOLP study or an EUE study or whatever because the
9 utilities aren't sharing it. You know, what comfort do we
10 have in what you're telling us?

11 MR. HERNANDEZ: Henry Southwick just joined me.
12 Henry is the chair of the engineering committee of the
13 FRCC, and I'll ask Henry to help.

14 MR. SOUTHWICK: Well, I don't have any magic
15 answer, that's for sure, but what we are committed to do is
16 to sit down at the engineering committee and attempt to get
17 the answers, because I don't know if LOLP or unserved
18 energy or percent reserve or whatever it's going to be, and
19 things that worked ten years ago may not work today, and
20 what we intend to do is we've formed this new group that
21 Tom mentioned, called the Reliability Assessment Group. We
22 only did this at our last meeting. We have reactivated our
23 Resource Working Group, which used to be called the
24 Generation Task Force several years ago, and we're going to
25 address these issues.

1 MR. JENKINS: But, Mr. Southwick, the fundamental
2 question is, because -- performing an LOLP or an EUE
3 reliability study is perhaps beyond the question because
4 doing so results in utilities sharing market-sensitive
5 information with each other, is that correct?

6 MR. SOUTHWICK: Joe, we really don't know until we
7 try. There may be a problem. There may be. I suspect in
8 the latter years it will be a lot bigger problem than in
9 the earlier years when things are more certain.

10 MR. JENKINS: And you have not done a peninsular
11 probablistic study of reliabilty since roughly 1988 or '89,
12 is that correct?

13 MR. SOUTHWICK: Yes.

14 MR. JENKINS: And, again, it's the
15 market-sensitive information that seems to be delaying
16 things?

17 MR. SOUTHWICK: I think it was those forces that
18 caused it to stop happening, and what we're going to have
19 to do is try to piece it together as best we can in the new
20 world.

21 MR. JENKINS: Have you considered taking the FRCC
22 and giving it a permanent staff to perform reliability
23 studies in which market-sensitive information can be kept
24 confidential within this FRCC staff and not use a
25 task-force, representative type of structure?

1 MR. SOUTHWICK: Have we considered it? No, not to
2 my knowledge. It's an idea.

3 COMMISSIONER CLARK: Let me follow up on that.
4 Who currently serves on the Florida Reliability
5 Coordinating Council? Who's part of that group?

6 MR. SOUTHWICK: I believe all the utilities in
7 Florida are members, as well as several power marketers.

8 COMMISSIONER CLARK: And who are those power
9 marketers?

10 MR. SOUTHWICK: I'll have to get some help. One
11 minute, please.

12 COMMISSIONER CLARK: Well, while he's looking for
13 that, Mr. Hernandez, do you know the balance of it? I
14 mean, is it more power marketers than there are utilities
15 or more utilities than power marketers.

16 MR. HERNANDEZ: I don't know.

17 MR. SOUTHWICK: Let me introduce Ken Riley, who's
18 the executive director of the FRCC.

19 MR. RILEY: Commissioner Clark, we have about 31
20 or 2 members at the present time in FRCC, and about 19 of
21 those -- 20 of those would be traditional utilities as we
22 have known them. So we have quite a few power marketers on
23 board, and I expect a couple of IPPs to come on shortly,
24 and we have some outside electric utilities from other
25 states.

1 COMMISSIONER DEASON: Have you given any thought
2 to Joe's question about having on staff to do these type of
3 studies and get information on a confidential basis that
4 their and your staff would report to you or the association
5 and not have their primary job being for one of the
6 utilities or power marketers?

7 MR. RILEY: Joe, I appreciate you helping me build
8 my staff up. Being staff, we always try to do that because
9 we never have enough; but I would like to respond to that
10 by saying that within FRCC as we know it today and in the
11 operating arena, we share through FRCC some -- what the
12 utilities consider some highly confidential information,
13 such as, when are utilities going to be taking their
14 generating units out for maintenance purposes, you know,
15 when does it go out, when it's coming back in and et
16 cetera, because we need to coordinate our maintenance
17 programs to make sure that our reserves, as we go through
18 the next 12 months, are in fact adequate every week of
19 every month, and this information comes in from individual
20 utilities that own generation, and we massage it at the
21 staff level. We evaluate it and we send the conglomerate,
22 the total out to everybody to look at so that they can see
23 what it looks like statewide, but they're not privy to
24 other people's confidential information.

25 Now, we have one or two individual utilities that

1 are -- have personnel that are responsible to FRCC to
2 perform certain activities, such as the security
3 coordinator in the state, and that person is an agent of
4 FRCC, and we give that agent this -- all of this individual
5 information, and he basically has signed a confidentiality
6 agreement that says he's not going to disclose it to any of
7 his marketing people or to any other marketing people.

8 So I think that we have a mechanism to solve this
9 confidentiality problem when it exists.

10 COMMISSIONER DEASON: Well, what I hear you
11 saying, it seems to me that that is in place, seems to be
12 working, but it's more of a short-term nature. It's how do
13 you plan so that everybody doesn't go put all their units
14 on maintenance on the same week of the year and we don't
15 have enough capacity? I mean, obviously that is a very
16 vital function that's got to be performed, but I think what
17 we're concerned here is on the longer term, not necessarily
18 the scheduling of maintenance and that sort of thing, but
19 when a new unit needs to be constructed, and if there's any
20 assessment on a peninsular basis on the longer term looking
21 at loss of load probability or expected unused energy or
22 whatever it is to give information as to when additional
23 capacity needs to be constructed in the state.

24 MR. RILEY: I feel that, if we do prove that in
25 this new environment we're working in that LOLP or

1 unexpected load or whatever the mechanism that you're using
2 can be done, and the technical ability to do it is there.
3 I think that we can solve that through our existing
4 organization of FRCC, bring that information in and keep it
5 confidential on an individual basis and report the results,
6 if that is what we need to do; and as Henry indicated, we
7 have a group formed right now that, as soon as this
8 workshop is over today, we're going to be sitting down and
9 discussing what it is we as the FRCC feel that we want to
10 do. And let's surmise that the results of our
11 deliberations, of all of our experts are that we don't
12 think that we ought to have loss of load probability on a
13 statewide basis -- let's just assume we come up with that
14 determination. You know, if your staff continues to feel
15 that this is something that we need and they're convinced
16 otherwise, well, I think that we've got to work that out
17 with the staff, and I know I've been talking with your
18 staff a little bit and we would welcome the Commission to
19 continue to send your staff to all of our meetings like
20 this, especially our Reliability Assessment Group, to hear
21 our deliberations to provide input if they would like and
22 so that, if they feel that we're heading off in some
23 direction that is not acceptable to this commission, we
24 want to know it then, not a year or two down the road after
25 we have done something and --

1 COMMISSIONER DEASON: Well, let me say that I
2 certainly encourage staff to participate in any way that
3 they see fit and that you want them to participate, and I'm
4 glad you're looking at this. I think it's something that
5 needs to be looked at. I think it's something, though,
6 that the industry needs to deal with because, if you don't,
7 what is the alternative? That means that we're going to
8 have to do it or try to go to the Legislature to get an
9 appropriation to put our own planning staff in effect, and
10 you know how things are done when you try to do planning at
11 a state level. I think then it's -- but something's got to
12 be done if we are not convinced that you are addressing the
13 problem, and I think what I'm saying -- and I don't want to
14 speak for the other commissioners, but I don't want this
15 commission to become the planning agency for the
16 construction of electric utility generation in this state.
17 I think that should be the responsibility of the industry.
18 It squarely should be on your shoulders, and you're
19 probably more capable and have a very high vested interest
20 in it; but you need to realize it and need to do it and
21 give us satisfaction that the planning is taking place and
22 that there is sufficient whatever it is, whether it's loss
23 of load probability that's a sufficient cushion or reserve
24 margins or whatever it is, and can show us summary
25 information.

1 I'm not so sure that we even need to look at the
2 confidential information that each individual provides to
3 you if you can certify to us that it is an accurate
4 compilation of all that information and that the proper
5 mathematical and statistical and engineering analysis has
6 been done to substantiate the results, but I think that
7 we're perhaps at a crossroads in this planning process and
8 I think we need to decide what we're going to do and we
9 need to make decisions now that hopefully are still going
10 to have the industry take care of that, and hopefully this
11 commission or some other state agency is not going to start
12 meddling in your affairs and dictating -- doing your
13 planning for you and telling you when, where and how you're
14 going to build an electric generating unit. I don't think
15 that's the direction any of us want to go.

16 MR. RILEY: I think our industry, through FRCC,
17 will handle this thing, Commissioner Deason, and this --
18 it's our new industry. FRCC is just not the electric
19 utilities as we know them. We are trying to ensure that
20 our -- all elements of our new industry are involved in
21 this process. So I think that we would -- we'll prove to
22 you that we will rise to this challenge.

23 MR. HAFF: Ken, did I hear you say a few minutes
24 ago that you can or cannot perform some sort of
25 probablistic study of the peninsula LOLP or expected

1 unserved energy or whatever? Did you say it couldn't be
2 done, it possibly could be done?

3 MR. RILEY: Michael, I was following up on Tom's
4 comments a moment ago where he indicated that we need to
5 look at some of the new environments to see how we used to
6 do them and does it still fit with the modern-day players?
7 And I'm not enough of an expert on that anymore to be able
8 to comment, but -- so I was just alluding to Tom
9 Hernandez's comment on that.

10 MR. HAFF: Okay. Well, Tom, you know, do you know
11 if we could see one of these, the results of one these
12 studies by, say, internal affairs when we take our review
13 down in December? Is that something that could be done in
14 the time frame?

15 MR. HERNANDEZ: I believe that we've got the
16 technical capability and the expertise and the
17 understanding, but I think, Michael, we still need to
18 discuss this at the FRCC and allow this reliability
19 assessment group to go through this before I respond. I'm
20 going to participate with that group, have an interest in
21 addressing all of the commissioners' issues, but we need to
22 do it as a group, and I don't want to speak for the group
23 prior to meeting.

24 COMMISSIONER CLARK: Commissioners, I should
25 probably indicate that you probably know that I am now the

1 NARUK representative on NERC, which is sort of the next
2 level up, and they are the entity that in fact allowed
3 Florida -- approved Florida coming up with its own
4 reliability coordinating council.

5 I have to say my schedule hasn't allowed me to go
6 to that first meeting, and I would hope that I would get
7 more information about how this can be handled because I
8 know one of the issues has been what they call tagging. In
9 some areas they want to know where are you getting the
10 power from and where it's being wheeled to, you know, so
11 that they can do an assessment of whether it's reliable and
12 that sort of thing, and the entities, the power marketers
13 are unhappy because they figure what will happen is then
14 the customer, the ultimate customer will see where it first
15 began and they'll cut out the middleman. So there are
16 issues of how do you mesh both long and short-term
17 reliability with a competitive market?

18 MR. HAFF: And adding to the concern you just
19 raised, our understanding is part of this eight percent
20 winter reserve margin in the out years is built on
21 purchases from power marketers. Who knows, one day it may
22 come from out of state, the next day it may not, and --

23 MR. RILEY: I believe that the numbers that you're
24 looking at there from imports into the state of Florida
25 that make up that eight percent are firm contracts that the

1 utilities currently have. There is nothing in there -- in
2 that number dealing with out-of-state with one exception,
3 and that's perhaps 30 megawatts of capacity that we're not
4 sure about.

5 MR. HAFF: Okay. Is that from Gainesville?

6 MR. RILEY: Yes.

7 COMMISSIONER DEASON: And let me interrupt for
8 just a second.

9 As we indicated from the handouts, and I'm looking
10 at -- apparently it's un-numbered. It's two pie charts,
11 and at the top it says "Peninsular Florida Generation by
12 Fuel Type," and then in parentheses it's got "(Gigawatt
13 Hours)." It's 1997 and 2006. It looks like it's a little
14 bit more than halfway through the packet.

15 All right. We see purchases going from 7.7
16 percent to 10.3 percent. Is that going to be an increase
17 in firm purchases of that magnitude, or in there is assumed
18 that there are going to be purchases of a different type
19 other than firm?

20 MR. HERNANDEZ: If he didn't say it before, I
21 meant to. That includes economic transactions where, if
22 you've got the ability or plan displace existing capacity
23 that you have but actually serve it out of lower-cost
24 capacity, that's included. So broker type transactions
25 across the tie lines are included for the generation.

1 This isn't so much a reliability issue as just an
2 usage of resources.

3 COMMISSIONER DEASON: Okay. I understand that.

4 Now, the increase from 7.7 percent of the '97
5 total generation to 10.3 percent of 2006 generation, which
6 is a substantial increase, is that increase primarily
7 driven by assuming that there's going to be more economic
8 transactions or is it that there's going to be more firm
9 capacity purchased and imported.

10 MR. HERNANDEZ: A little of both.

11 COMMISSIONER DEASON: A little of both.

12 MR. HERNANDEZ: But it does exclude any other
13 additional power marketing transactions. That is not
14 factored in here. This is just firm capacity and existing
15 transactions or planned transactions between existing
16 entities. It precludes the fact that there may be other
17 market entrants that may displace some other generation by
18 resources here.

19 COMMISSIONER DEASON: All right. Thank you.

20 CHAIRMAN JOHNSON: Any further questions?

21 MR. JENKINS: Yes. Mr. Hernandez, just on behalf
22 of staff, we would like to have by December 1st, in time
23 for the internal affairs final report on this ten-year site
24 planning process, either an LOLP study or an EUE study or,
25 if you cannot do it because of competitive, sensitive

1 information, a letter from you stating explicitly that it
2 cannot be done by December 1st.

3 MR. RILEY: We'll address that. We'll address
4 that, Joe.

5 MR. JENKINS: Okay. Thank you.

6 CHAIRMAN JOHNSON: Okay. Thank you. Thank you
7 for your presentation.

8 MR. HERNANDEZ: Thanks for the additional time.

9 CHAIRMAN JOHNSON: We will take a ten-minute
10 break before beginning with Florida Power & Light.

11 (Whereupon, a recess was had in the proceeding.)

12 CHAIRMAN JOHNSON: Florida Power & Light.

13 MR. ADJEMIAN: Good morning. My name is Bobby
14 Adjemian, spelled A-d-j-e-m-i-a-n. I'm manager of resource
15 planning and I represent Florida Power & Light. I'll be
16 happy to be the first utility addressing our ten-year site
17 plan, and I will give you a brief overview of the
18 highlights of our 1997 ten-year site plan.

19 The overview will review -- will cover the changes
20 in our assumptions, the key assumptions between the 1996
21 and 1997 ten-year site plans. I'm going to discuss the
22 content of our resource plan and our changes to the
23 projected system fuel mix compared to what last year's fuel
24 mix was, and then I will conclude with the projection of
25 our summer reserve margins.

1 In 1996, our site plan presented a 2003 need, but
2 since then there have been two key-assumption changes. One
3 had to do with the load forecast which tended to move the
4 need up, and the other one had to do with our unit
5 availability of our fossil fleet of generation which
6 actually is projected to get better and countered the
7 effect of the first forecast or the first assumption
8 change, however, not enough to where we're concluding with
9 a -- it's hard to read this, but the acceleration of need
10 moves to 2002 from 2003.

11 The content of our resource plan is that, between
12 the period of the next ten years, we are anticipating of
13 adding supply-side resources total totalling 1632
14 megawatts, comparing it to last year's plan, a ten-year
15 window shifted in time, obviously, by one year. We're
16 adding 1690 megawatts, approximately the same amount, and
17 the breakdown of megawatts are shown in the table below.
18 The 1997 actually on that slide refers to the 1997 ten-year
19 site plan. It's the total of 1632 megawatts, which is met
20 primarily by additions of proposed new units of combined
21 cycle, vintage technology and power purchases. Our -- I
22 should add that --

23 COMMISSIONER DEASON: Let me -- can you go back to
24 the previous slide there?

25 MR. ADJEMIAN: Yes.

1 COMMISSIONER DEASON: The 357 megawatts of
2 unspecified purchased power that's being proposed, is that
3 unspecified because you don't know, or is that unspecified
4 because it's confidential?

5 MR. ADJEMIAN: It's specified to the extent that
6 we know how many megawatts we need. It's unspecified as to
7 who the originator or the supplier of the power would be.

8 COMMISSIONER DEASON: And it's because you don't
9 know yet or because you're contracting with or you're
10 negotiating with someone, or you don't want to divulge what
11 you're looking at for competitive reasons?

12 MR. ADJEMIAN: The need -- the first year need is
13 in the year 2002, and we're looking at purchasing
14 short-term power which we expect that we don't have to
15 right now begin discussion and negotiations, however, I
16 would think that maybe by early next year we would want to
17 do that in order to address part of Commissioner Clark's
18 concern, which is we want to give -- we want to preserve
19 adequate lead time in case those discussions point to
20 purchases that do not make sense to us for our customers,
21 so that we could actually turn in and, if we needed to
22 build a plant, we would build a plant.

23 COMMISSIONER DEASON: Now, when you say "purchased
24 power," are you talking about purchasing power like
25 importing it from Georgia, or are you talking about

1 purchasing from an independent producer, or both of those
2 could fit in that category?

3 MR. ADJEMIAN: Yeah, both of those. At this point
4 Florida Power & Light -- if I can reference at least
5 mentally the slide that Tom Hernandez had put up that
6 showed the transfer capability into the state on the
7 transmission tie lines, FPL, as he mentioned, has allocated
8 a part of that 630 megawatts total transfer capability.
9 Our allocation is a little over 1700 megawatts, of which
10 1500 is currently taken up through the transmission of
11 Scherer No. 4 power and our UPS purchase from Southern
12 Company. So we have about 200 megawatts still available to
13 ourselves. The remaining amount would be purchased from
14 one of the other four users, or three users, I guess, if
15 it's coming from outside the state. However, we see a lot
16 of increased activity within the state in terms of
17 construction of new power plants, perhaps from emergent
18 suppliers, so that the possibility of getting some of those
19 megawatts from within the state, that's also available to
20 us.

21 MR. HAFF: I don't think from the previous
22 discussion that we're seeing any available capacity from
23 other utilities in the state in the future. Is that
24 correct?

25 MR. ADJEMIAN: From other utilities, perhaps not;

1 however, I was referencing emergent power suppliers. For
2 example, one case in point is the plant that's being
3 considered outside New Smyrna Beach, a 250 megawatt
4 combined cycle unit as I understand it, that --

5 CHAIRMAN JOHNSON: You're going to need to speak
6 into the microphone.

7 MR. ADJEMIAN: I'm sorry. I was addressing the --
8 that, unlike -- I was not really specifically discussing
9 utility generation, available generation, although we can
10 talk about that if somebody has some, but I was thinking
11 that -- perhaps emergent suppliers, such as Pan Energy's
12 250 megawatt that they're at this point considering for
13 early installation I think in the 2000 to 2001 time frame.

14 MR. HAFF: Now, this 357 megawatts of unspecified
15 purchased power, my understanding is that is included as a
16 resource in calculating your reserve margin, correct?

17 MR. ADJEMIAN: Yes, it is.

18 MR. HAFF: And that the FRCC, when doing their
19 peninsular assessment, does not include this because it
20 doesn't know the origination point of the sale?

21 MR. ADJEMIAN: That's what I understood Tom to say
22 this morning.

23 MR. HAFF: Okay.

24 MR. ADJEMIAN: I also wanted to make one
25 additional comment on this particular slide. It's right at

1 the bottom of the slide. I was only discussing supply-side
2 resources. We are including in our resource plan the DSM
3 goals for Florida Power & Light. So that is in addition to
4 the 1632 megawatts. Our resulting fuel mix, I'm showing on
5 the left the 1996 actual 2006 projected.

6 The primary change that's worth mentioning is that
7 oil consumption is expected to go -- to be halved and be
8 made up by orimulsion fuel. We also see a little bit of an
9 increase in the gas in the mix because of the combined
10 cycle units that are currently in the plan.

11 COMMISSIONER DEASON: Let me ask you the
12 question. I mean, it was being alluded to earlier --
13 Commissioner Kiesling asked the question about orimulsion,
14 and your projection is that in the year 2006, ten percent
15 of your generation will be from that fuel source. What's
16 the basis for that projection?

17 MR. ADJEMIAN: Well, as you probably know, we had
18 began the process of incorporating orimulsion in our system
19 a long time ago before we even came to the Commission in
20 '94, and since then we've had the plan -- or the Siting
21 Board denied FPL's project, and we have -- we've appealed
22 that decision and it's been sent up to the Siting Board,
23 which is voting on it, as I understand, early next month.
24 I'm hoping that the decision will be favorable to Florida
25 Power & Light.

1 FPL has taken some additional steps since the last
2 vote that we hope will address some of the concerns that
3 were expressed at the time the original vote of the Siting
4 Board was taken. It's -- in our view, this is -- and in my
5 personal view, as long as I've been in Florida Power &
6 Light, which is close to 13 years as a planner, system
7 planner, in essence, it's a project that's producing the
8 greatest benefits, economic benefits to our customers from
9 anything else I've seen. So I hope and it's our hope that
10 that project will be successful and we'll be able to
11 proceed with it.

12 COMMISSIONER DEASON: Do you have a contingency
13 plan if the orimulsion option is precluded?

14 MR. ADJEMIAN: Well, we are looking at other
15 refueling options, but none of them are as successful as
16 orimulsion in terms of effectiveness.

17 COMMISSIONER DEASON: Well, does it -- I know this
18 is a fuel mix projection and it doesn't necessarily -- is
19 exactly equivalent to reliability in terms of capacity, but
20 do -- if orimulsion were not an option, would that affect
21 your plans as far as the effects it could have on your
22 reliability in the year 2006?

23 MR. ADJEMIAN: Very little, and actually in a
24 positive way, if I may say that, because the plant requires
25 -- after conversion, in order to meet the environmental

1 requirements of the plant, we're including a lot of
2 pollution control equipment which would in essence drain
3 some of the power of the plant. So if we don't do that
4 project, obviously those megawatts are not going to be
5 lost. I mean, we're not talking about significant
6 megawatts, but for all practical purposes, reliability is
7 not really going to be impacted by that plant.

8 MR. HAFF: And if the conversion turns out not to
9 be an option, are you going to re-power Manatee with
10 natural gas or using natural gas?

11 MR. ADJEMIAN: I was unaware of that, but --

12 MR. HAFF: I'm just asking you. I don't know.

13 MR. ADJEMIAN: Oh, I see. I'm sorry.

14 Well, as I said earlier, we are considering other
15 refueling options, probably more with solid fuel rather
16 than gas, but --

17 MR. HAFF: But Manatee right now is burning what,
18 pet coke?

19 MR. ADJEMIAN: No. Manatee right now is burning
20 residual oil, fuel oil.

21 MR. HAFF: Okay.

22 MR. ADJEMIAN: So a potential refueling option may
23 be a conversion -- well, not necessarily at Manatee, but
24 maybe another plant -- converting a plant that burns oil to
25 either pet coke or coal.

1 MR. HAFF: I'm just trying to continue on
2 Commissioner Deason's concern about where will this ten
3 percent of orimulsion generation come from if it's not
4 orimulsion, and it kind of -- if any of it's gas, that
5 raises further questions. The 35 percent now you're
6 showing in ten years is going to come from gas. Where is
7 it going to come from? How are you going to get the gas?
8 You know, do you have plans for --

9 MR. ADJEMIAN: So your question is more to the
10 gas rather than --

11 MR. HAFF: Well, that, too. I mean, there really
12 is two of them.

13 MR. ADJEMIAN: All right. Well, let me take the
14 first one. I mean, if we find that the orimulsion cannot
15 take place and if we find that any of our other refueling
16 options we're looking at that are on our system do not make
17 sense, economic sense, what you would have is in essence a
18 replacement of that portion of the pie chart by a
19 combination of oil and gas, probably more oil, less gas.

20 Now, if you have -- I guess your second question
21 was going to, where is gas going to be supplied from? I
22 don't know if we have any Florida Gas Transmission people
23 here, but I can tell you my knowledge of what the
24 capabilities of the gas pipelines are. I have -- as I
25 understand it, currently with Phase 3 gas, we're close to

1 one and a half billion cubic feet a day capability and --

2 COMMISSIONER KIESLING: Would you talk into the
3 mike?

4 MR. ADJEMIAN: I'm sorry.

5 COMMISSIONER KIESLING: I'm losing you the more
6 you turn that way.

7 MR. ADJEMIAN: I was discussing the capabilities
8 of the current pipeline, what they call the Phase 3
9 expansion of the pipeline, and I've been told that Phase 4
10 expansion, which is an additional 500,000 cubic feet a day,
11 is possible with relatively small improvements to the
12 current pipeline, mainly looping and maybe some
13 compression, additions on the current pipeline.

14 MR. HAFF: How many megawatts of electric
15 generation will that serve?

16 MR. ADJEMIAN: That -- well, a new combined cycle
17 unit of 400 megawatt size I believe would require between
18 50 and 60,000,000 cubic feet a day, so you're talking maybe
19 about 4,000 megawatts of generation if Phase 4 takes place,
20 and then further Phase 5 is also available, and I think
21 that would be also an additional 500,000,000 cubic feet,
22 but as I understand, the expansion of Phase 5 is not quite
23 as simple. It may require a little bit more pipeline
24 construction, but at least this is what we have been told
25 by Florida Gas Transmission, and if somebody's in this

1 workshop maybe from that company can -- may be able to
2 address this better.

3 MR. HAFF: Okay.

4 MR. ADJEMIAN: My next slide is FPL's projected
5 summer reserve margins, and it's pretty hard to read this,
6 for the audience, but the number levels out at around 15
7 percent. There are some years of 16 percent, 2004 and
8 2005, which is our minimum criterion for our power system
9 reliability is a 15 percent reserve margin in the summer.

10 MR. HAFF: Okay. I have a few more questions.

11 Now, I understand that that includes the addition
12 of the unspecified capacity that we discussed earlier.

13 MR. ADJEMIAN: That's correct.

14 MR. HAFF: Okay. And if that -- you know,
15 subtracting that unknown source out of there, you're going
16 to drop below 15 in a few of those years, right?

17 MR. ADJEMIAN: Subtracting it, yes, obviously,
18 will reduce that portion.

19 MR. HAFF: Do you know how that would impact --
20 you use LOLP as your probablistic criteria?

21 MR. ADJEMIAN: Yes, we use that as well. We'll
22 look at loss of load probability, but we use 15 percent as
23 the minimum required reserve margin. So even if loss of
24 load probability tells us that we have adequate generation,
25 yet reserve margin's below 15 percent for the summer, then

1 we will add capacity appropriately to meet the 15 percent.

2 MR. HAFF: Okay. And I'm assuming the base plan
3 is going to meet your LOLP criterion or else you'd be
4 building more?

5 MR. ADJEMIAN: Correct.

6 MR. HAFF: Okay. Does your LOLP -- do you know,
7 if you fail that criterion, if that unspecified capacity
8 that is in your plan -- if that is taken out, what would we
9 be the impact, do you know, or have you modeled that?

10 MR. ADJEMIAN: On the LOLP itself?

11 MR. HAFF: Yes. I mean, do you fail your LOLP
12 criteria if you take that out?

13 MR. ADJEMIAN: I couldn't tell you that. I don't
14 see why I would want to take it out, but I have not --

15 MR. HAFF: Well, because we don't know if it's --
16 if it's coming from inside the state, then we still have an
17 eight percent peninsular reserve margin.

18 MR. ADJEMIAN: Well, we have a 15 percent reserve
19 margin.

20 MR. HAFF: Well, that's the summer. The winter I
21 show you dropping below 15 percent in four years and
22 dropping towards 11 percent at the end. I was wondering if
23 you could address why that's happening.

24 MR. ADJEMIAN: Yeah. I have the winter reserve
25 margin chart here as well. It was in your package, but, as

1 you mentioned, Michael, the number dips below 15 percent
2 and goes down, long-term, to 11 percent.

3 I think there's a couple of comments I can make
4 here. Our -- the peak for which we plan our system is the
5 summer peak. That's the peak when our system is stressed
6 the most. Winter is of concern, of course, and we take
7 several steps to make sure that the winter demand is met,
8 and one of those would be, we do not schedule any
9 maintenance during the winter peak period.

10 Beyond that -- and this was discussed a little bit
11 earlier with Tom Hernandez as to -- and you had mentioned
12 it, Commissioner Deason, about the forced outage rate of
13 units and how -- that is essentially what's shown in the
14 reserves that we're showing here is to capture that.

15 I'd like to say, from Florida Power & Light's
16 perspective, we have taken significant and -- taken
17 significant efforts to improve the forced outage -- reduce
18 the forced outage rate of our units. In 1987, Florida
19 Power & Light had average system equivalent forced outage
20 rate of about 14 percent. We are -- we have reached now
21 down to about three and a half percent, and we've gotten
22 tremendous avail -- increased availability from our own
23 existing plants, making better use of our plants. So
24 reserve margins that were shown earlier in the slide that
25 was addressed back in 1988-'89, compared back to reserve

1 margins as I'm looking at them today, they're a lot firmer
2 in my view in stand of -- from the standpoint of
3 supply-side, and beyond that, another point Tom had made
4 was the --

5 COMMISSIONER GARCIA: As a whole you mean they're
6 much firmer, the reserve margin is much firmer today than
7 --

8 MR. ADJEMIAN: Well, I feel more comfortable that
9 having a -- if you have a forced outage rate that's much
10 lower than it was before, that your reserve margin -- you
11 don't have to maintain as high a reserve margin. Of
12 course, that's what LOLP addresses, so that's why we have
13 that in there, too.

14 And the other thing is, the mixture of the
15 reserves. If it's all made up of generation, then the
16 forced outage rate is going to take that part down
17 significantly, but if you have supply-side and demand-side
18 resources, then it's -- you're a little better hedged. So
19 that's something else to also consider.

20 But again, going back to the winter, winter, as I
21 was stating, is not that significant for Florida Power &
22 Light in terms of planning. I also show -- I have a chart
23 here that's not included in your slide, but let me show you
24 -- historically, what I'm showing here is the winter peak
25 versus the summer peak. Summer peak is a solid line that

1 you can see it's on an upward slope, and the winter peak,
2 you can see how erratic it can be. In fact, in the last
3 ten years, summer was our prevailing peak for the entire
4 year. Winter, but for the last two or three years, has
5 been, in that period, of course, lower because of the mild
6 winter.

7 And another point about that is the duration of
8 when that peak occurs, the winter peak. Those durations
9 are very, very narrow in time. We may have a winter peak
10 that would last perhaps an hour to two hours, which truly
11 can stretch your system some, maybe not a lot, but for one
12 hour to two hours you have a better chance of finding some
13 perhaps purchase, emergency purchase from across our tie
14 lines, as opposed to the summer that you have the peak that
15 persists for maybe six to eight hours, and that available
16 generation may not be there. So we have better ways of
17 addressing those spikes of demand that occur typically for
18 our system in the winter.

19 MR. HAFF: Now, your plan shows an 11 percent
20 reserve margin in the last two years of the plan, and the
21 four years prior to that 12 percent, and that considers or
22 takes into account load management and your other DSM,
23 correct?

24 MR. ADJEMIAN: That's correct. That's included in
25 that.

1 MR. HAFF: Okay. Now -- and your load management
2 can help to reduce those winter peaks which you were
3 talking about a minute ago --

4 MR. ADJEMIAN: Right, the load management's
5 already factored in as to the firm peak.

6 MR. HAFF: Well, what happens when you have
7 everybody on load management and they're on for so many
8 minutes pursuant to, I guess, the contract people sign for
9 load management, and then when they all come back on, you
10 turn around and have another brownout because the
11 distribution system is overloaded from everyone turning
12 their heater on at once? I mean, have you done a study of
13 the impact of that? Do you understand what I'm saying?

14 MR. ADJEMIAN: Yeah, I understand what you're
15 saying. You're saying, if all the load control is released
16 simultaneously, what happens to the T&D system?

17 MR. HAFF: Or even some of it during a time of
18 peak. I mean, you're at a point where you need load
19 management to keep everyone else's lights on during winter
20 peak.

21 MR. ADJEMIAN: But, is your concern as to what the
22 effect will be on the T&D system?

23 MR. HAFF: Yeah, and it kind of goes to the
24 bigger question of why you're not concerned about an 11
25 percent winter reserve margin on your system.

1 MR. ADJEMIAN: Well, I was addressing generation
2 reliability. Now, your concern is on the T&D system. Of
3 course, the load management is deployed and operated by the
4 same person that operates the generation system. I mean,
5 they would not release generation -- or I should say -- I'm
6 sorry -- load management and effectively jeopardize the
7 integrity of the grid if -- because they're next to each
8 other, the transmission operator and the generation
9 operator. So I guess what my point is that there's going
10 to be enough coordination that that should not occur.

11 MR. HAFF: But with an 11 percent winter reserve
12 margin, are -- your reserves look like they're made up
13 mainly from DSM and there's not as much generation driving
14 your reserve, the amount -- your megawatt reserves, and so,
15 thus, you know, you're going to have to implement more DSM
16 during a time of winter peak.

17 MR. ADJEMIAN: But remember the peak will last, as
18 I was saying, maybe one to two hours, and very quickly you
19 start gradually releasing it, and I don't think it's going
20 to have the effect that, you know, you're anticipating.

21 COMMISSIONER DEASON: Let me ask a question on
22 your winter reserve margins. Now, I understand that it's a
23 short duration and that you're primarily a summer peaking
24 utility, but have you done a loss of load probability
25 analysis and, if you have, does it meet the requirements

1 for planning purposes in the winter?

2 MR. ADJEMIAN: Our loss of load probability
3 analysis covers the entire span of the year, and so it
4 considers both winter conditions and summer conditions. So
5 at the end of the year, as you do your simulation of loss
6 of load probability and you look at your cumulative
7 probability of losing load and it says that it's less than
8 .1, then -- or one day in ten years, then that means that
9 factoring in the winter conditions and the winter lack of
10 reserves or access of reserves and the summer conditions,
11 you're still meeting the loss of load probability, that's
12 correct.

13 COMMISSIONER DEASON: And is that the case for
14 Florida Power & Light?

15 MR. ADJEMIAN: Yes, it is.

16 CHAIRMAN JOHNSON: Does staff have any further
17 questions?

18 MR. HAFF: I just had one more.

19 We're concerned about the impacts of the
20 Okeelanta/Osceola co-gen facilities, and I guess what we're
21 wondering is, are you going to be able to rely on this
22 capacity as part of your QF purchases? Is it included as
23 QF capacity in your plan or is it not, or how have you
24 addressed that?

25 MR. ADJEMIAN: Okay. Right now those two

1 contracts, qualifying facilities total about 120
2 megawatts. They are in our long-term plan. They're
3 reflected in the ten-year site plan; however, we are in the
4 -- we're in the middle of a litigation with the supplier
5 and at this point, for operational planning, FPL assumes
6 that that generation is not available. If they're there,
7 we'll take the power if we need it, but we assume that they
8 may not be there.

9 For planning purposes, I am already -- I'm still
10 showing it in the plan because -- well, a couple of
11 reasons. First of all, I don't know how this is going to
12 be resolved in the courts, and, secondly, I don't know that
13 I have to make a decision right now imminently for that
14 particular -- for those particular resources or replacement
15 of those resources. So I don't know if -- hopefully that
16 answer yours question, but they are reflected in the plan
17 right now and I do share some concerns as to how -- what
18 the disposition of those contracts is going is to be.

19 MR. HAFF: But from a planning perspective for
20 meeting reserves in the out years, you're not at a point
21 yet where that missing capacity has much of an impact?

22 MR. ADJEMIAN: That's correct.

23 MR. HAFF: Okay.

24 CHAIRMAN JOHNSON: Any further questions?

25 MR. NORIEGA: I had a question.

1 Yeah, this is Tarik Noriega from PSC staff
2 forecasting section.

3 In looking at your winter demand forecast for the
4 1996 and '97 ten-year site plans, I've noticed a megawatt
5 difference of 673 megawatts on the average for the 1997
6 through 2007 period. What is the main driver of that
7 difference?

8 MR. ADJEMIAN: Okay. I'm sorry. You're saying
9 you're finding that the winter demand has increased, is
10 that your --

11 MR. NORIEGA: Your forecast for those ten years
12 have increase for the winter, yes.

13 MR. ADJEMIAN: Okay. In fact, that's shown in I
14 think it was my second slide that the load forecast had
15 increased and moved the need forward in time.

16 There were two parts to that increase, but the
17 primary reason is we concluded a survey of housing in our
18 service area and -- I think it was in 1995 -- which showed
19 that one of the key assumptions that goes into development
20 of the forecast is the average size of a home in our
21 service area, and found out that the new homes that are
22 being built are actually a little larger than what we had
23 originally assumed them to be. So I mean, that was part of
24 the -- that was part of the reason that there's been an
25 increase.

1 MR. NORIEGA: That seems like it's too large a
2 megawatt discrepancy to be accounted for by housing. Are
3 there any other factors that came into play in that regard?

4 MR. ADJEMIAN: Yes. Another factor was the actual
5 experience of the peak that we experienced in 1996 in the
6 winter. That tends to be rolled into a -- into part of the
7 formula that develops the forecast. So it does reflect
8 historical experience, and that was another reason why I
9 pushed it up.

10 MR. NORIEGA: Very well. Thank you.

11 MR. ADJEMIAN: Sure.

12 CHAIRMAN JOHNSON: Thank you very much for your
13 presentation.

14 Florida Power Corp.

15 MR. RIBB: Good morning. I am Mike Ribb. I am
16 the director of resource planning at Florida Power
17 Corporation, and I want to briefly review some of the
18 highlights of our ten-year site plan. I passed this around
19 earlier, so this should give you a reference point for our
20 slides today.

21 COMMISSIONER GARCIA: Do you have any extra
22 copies?

23 MR. RIBB: There were some extra copies put at the
24 end. I don't know if there's any of those left.

25 CHAIRMAN JOHNSON: Go ahead.

1 MR. RIBB: Okay. There's been a fair amount of
2 discussion on resource planning criteria. For the planning
3 period of 1996 reported in our '97 plan, we're still using
4 15 percent of firm peak load for reserve margin reference
5 point and, in addition, checking the loss of load
6 probability for the period. The other thing that we are
7 continuing to look at each year is SO2 emissions and how
8 our system would respond to meeting the emission
9 requirements set forth in the Clean Air Act.

10 We tend to focus our planning efforts on winter
11 peak demand. As Mr. Adjemian mentioned, these are
12 difficult planning targets because of the volatility of the
13 winter peaks as well as the short duration as well. So
14 balancing the resource formula for winter peaks is quite a
15 challenge.

16 We've referenced in the dotted line the forecast
17 we had in our '96 site plan, and the solid lines are
18 forecasts for the 1997 plan. What that shows is some
19 contract wholesale sales that we are anticipating those not
20 being renewed on our system. So our wholesale in that
21 later period shrinks down some, and also that does capture,
22 though, the expected retail growth in our area. And this
23 is a -- the former was a capacity view. This an energy
24 view in gigawatt hours. So you see a similar -- you see a
25 similar representation of the total load for our system.

1 Now, Florida Power has been somewhat active in
2 generation resources. We brought our new Intercession City
3 Siemens unit on line. That was scheduled to come on line
4 in '96, but there were some delays in bringing a
5 high-technology unit on line. So we spent a little more
6 time to ensure that it was as required from our vendor, but
7 that was commercial in January of '97, and has been
8 available serving our system.

9 We've also, over a several-year period, been
10 looking for opportunities to convert some of our peakers
11 from distillate service to dual-fuel service and provide
12 gas capability for those facilities. In this spring
13 period, we have converted one peaker at Suwannee, which is
14 to the far north -- well, actually not far north from
15 Tallahassee, but far north of where we're headquartered --
16 a couple of units at our Bartow plant, which is in St.
17 Petersburg, and also I show one unit -- we actually
18 converted two units at De Bary, and with those units
19 running this summer, so far we've captured tremendous fuel
20 savings opportunities for our customers by utilizing
21 dual-fuel capability. So it's been a very -- it's been a
22 real win, I think, for our customers.

23 Hines Energy Complex, which was called Polk County
24 when it was first under construction, the Hines Energy
25 Complex, the first combined cycle power block is under

1 construction, significant progress. The cooling pond's
2 complete and foundation's in place and equipment being
3 shipped. So we're well under way to meet our in-service
4 date in 1998.

5 In our ten-year site plan for 1997, we also showed
6 a second unit, a very efficient unit at Hines, the same
7 size power block, coming in November, 2004. That's when
8 the need emerges for that unit.

9 MR. HAFF: That Intercession City unit, you just
10 get the winter capacity from that unit, right?

11 MR. RIBB: Right, that's correct. We co-own that
12 with Georgia Power, and they have the dispatch rights to it
13 in the summer, so when we calculate reserve and
14 requirements, all that's taken into account.

15 MR. HAFF: And in loss of load probability
16 calculations?

17 MR. RIBB: Yes, sir, that's correct.

18 MR. BORMAN: If I could ask a question on the --
19 Todd Borman from commission staff. If I could ask a
20 question about the conversion of the peaking units to dual
21 fuel --

22 MR. RIBB: Yes.

23 MR. BORMAN: -- are there any plans to convert any
24 other peakers to dual fuel in the future?

25 MR. RIBB: That's something that we're looking

1 at. First of all, I guess I'd say we do not have a large
2 gas contract in place at this time. In other words, our
3 system -- we're new to bringing gas onto our system. So
4 we're tending not to assume that we would buy enormous
5 amounts of firm gas to support these conversions.

6 Each time we look at a conversion like this, we
7 look at the merits of the conversion and anticipate how
8 much gas might be available for it during peaking periods.
9 So what we've probably looked at is a great deal of benefit
10 on the first group of units. We're looking real hard at
11 some potentials for conversions next year as well, but the
12 economics get very tricky, Todd, as you convert more and
13 more units.

14 MR. BORMAN: The cost-effectiveness of these
15 peaking units that were completed prior to now were based
16 upon using interruptible transportation on the pipeline of
17 about 50 percent, is that correct?

18 MR. RIBB: I'm sorry. By "50 percent," what are
19 you asking?

20 MR. BORMAN: 50 percent of the time there would be
21 gas available under an interruptible schedule.

22 MR. RIBB: It may be difficult to generalize
23 because each the power plant site is characterized
24 differently in terms of what's available. For example,
25 something in St. Petersburg has to deal with the potential

1 congestion in the Tampa-St. Petersburg area for retail gas
2 supply. So its characteristics might be different than one
3 at Intercession City or De Bary. So each one's different,
4 but we assume that, I think -- in simplistic terms, we
5 assume that we could get gas half of the time there might
6 be demand with the unit, and we know we can fall back on
7 distillate if that's necessary. The units are permitted
8 for 100-percent run-time on distillate.

9 MR. BORMAN: Just one final question. Are there
10 any plans in the works to convert any base load or
11 intermediate load units to get natural gas?

12 MR. RIBB: Well, after we published the '97 plan,
13 we've been pursuing with FGT an opportunity to convert or
14 to add some gas-firing capability at our Anclote plant.
15 We've been working on trying to accomplish that for many
16 years, and I think we may be optimistically pursuing that
17 at this time, but we did not have a decision like that in
18 time when we published the plan. So hopefully that will
19 add some additional fuel flexibility on our system.

20 MR. BORMAN: Thank you.

21 MR. RIBB: Florida Power has 1,048 megawatts of QF
22 capacity on line at this time and there are a few remaining
23 standard offer contracts out that could result in a total
24 capacity of -- a subscription of over 1100. So most of
25 that's built out, on line and operational, as this

1 commission is well aware.

2 The other thing I wanted to mention is that we did
3 close in July on the buyout of the Tiger Bay facility,
4 which, of course, also is not new information here, and
5 that will be incorporated in our planning criteria as a
6 unit available for service.

7 A very brief update on DSM goals. We have
8 forecast through 2003 the goals from the Commission Goals
9 Docket. So far in the report submitted in terms of our
10 achievements here, we're ahead of schedule by a year to two
11 years, depending on whether you're looking at summer or
12 winter in terms of megawatts. I also looked in our
13 ten-year site plan when we were discussing this earlier
14 today on the energy portion of the gigawatt hours
15 accomplished, and for 1996, our goal was 78 gigawatt hours,
16 and we had reported achieving 182. So we feel pretty
17 comfortable about the achievements to date on this DSM
18 program, and these are -- goals are incorporated in our
19 planning going forward.

20 Now, this is a quick look at our capacity resource
21 mix, and this is -- I've got one right behind it on energy,
22 so there is some difference. You see that a large portion
23 of that is coal- and oil-fired capacity. We -- on a
24 capacity basis, we are achieving very significant levels
25 with DSM, qualifying facilities about ten percent. So this

1 gives you an idea of the flexibility of our capacity
2 resource mix at this time.

3 On an energy basis, I guess the most notable thing
4 here is by the year 2005, we do show some increase in
5 natural gas, and that is the natural gas usage we would
6 expect at some of our peaking facilities as well as the new
7 combined cycles that we're planning.

8 We've discussed the need for at least the first
9 two units at Hines which are in the planning period, and we
10 have reasonable assurance in our discussions with Florida
11 Gas Transmission that, when the time comes, that that gas
12 should be available for us. We also show the impact of
13 qualifying facilities. Although representing ten percent
14 of our capacity mix, it's generating roughly 20 percent of
15 our energy mix. So that is a fairly significant impact in
16 terms of our cost to serve.

17 Okay. Reserve margin review. We've got to look
18 at this from a summer and a winter perspective. We have
19 not included in ours what we would call unspecified
20 capacity purchases, but we do note that in the winter of
21 2000-2001, we dip slightly below our 15 percent reference
22 point; and I would say, as others have been discussing
23 today, if that -- with that phenomenon not being a
24 sustained annual requirement, we would probably work with
25 the marketplace to try to satisfy that additional need, so

1 that, if we were to show 15 percent, would be less than 200
2 megawatts that we'd need to pursue in the marketplace. And
3 it shows in the summer fairly substantial available
4 capacity.

5 And the last item is just a quick review of the
6 Hines Complex, which I think I've covered most of that. I
7 think it's worth noting that we have -- in terms of
8 pursuing that power plant, we have been willing to take
9 some additional risk in trying to find the most efficient
10 equipment that we can on the market. The plant, when it
11 comes in service in '98, will be the most efficient power
12 plant in the southeast, and it's -- and as we did with
13 Siemens, also with Westinghouse on these Hines units, we're
14 willing to take a little bit of additional risk to get
15 those new technologies deployed so we can bring the best
16 and most cost-efficient equipment into service.

17 That concludes my comments, if there are any
18 questions.

19 MR. NORIEGA: I just have one question, please.
20 In looking at the 1996 and '97 ten-year site plans, I
21 reviewed the winter demand forecast, and you have
22 forecasted higher up to the winter of 2001. Then there's a
23 drastic drop.

24 Is there any particular justification for that?
25 That brings your average megawatts down significantly, if

1 we take that ten-year period into consideration.

2 MR. RIBB: Okay. We're talking about winter peak
3 demand?

4 MR. NORIEGA: That is correct.

5 MR. RIBB: Okay. Let me put the picture up.
6 Okay. You're asking me about this drop here?

7 MR. NORIEGA: Right. That year, 2001, that
8 particular winter seems to be significant as far as what
9 you've reported in the last two ten-year site plans. I
10 want to know if there is anything that would highlight that
11 --

12 MR. RIBB: I think the most significant change
13 we're experiencing at that point is with our contract
14 relationships with Seminole. We have some energy sales in
15 the period prior to that and -- which are, in essence,
16 selling them intermediate and peaking power for the
17 three-year period prior to that, and we're anticipating and
18 expect with the -- with their planning to build a unit at
19 Hardee in that time period that, instead of continuing the
20 contract with us, they'll likely pursue other resources.
21 So the bulk of it has to do with the choices that Seminole
22 Electric appears poised to make.

23 There are some other smaller wholesale contracts
24 that we're currently discussing and are in a period of time
25 where we could be notified of -- that they would go to the

1 marketplace rather than continuing with us. So that is
2 significant, but it has a lot to do with what's happening
3 in the wholesale business at that time, and I think the
4 biggest piece of it is probably recognized in Seminole
5 Electric's plans to start serving that load themselves.

6 MR. NORIEGA: Very well. Thank you.

7 CHAIRMAN JOHNSON: Thank you, sir.

8 MR. RIBB: Thank you.

9 CHAIRMAN JOHNSON: We will go on to TECO.

10 MR. WARD: Good afternoon, Commission. My name is
11 Mark Ward. I'm the manager of generation planning at Tampa
12 Electric Company and I will be presenting our ten-year
13 site plan.

14 The first chart I'd like to show you is our demand
15 and energy comparison from 1996 to 1997. We have a slight
16 increase in our firm peak and summer firm peak -- winter
17 and summer firm peak demands. Our average annual growth
18 rate for 1997 winter firm is about -- to 2005 is about 2.3
19 percent. Our projected annual growth rate for the summer
20 firm peak is about 2.5, and then we have about a 2. -- a
21 two percent increase in our net energy for load over the
22 planning period.

23 This is a picture of our existing generating
24 capacity by fuel type. We're almost 90 percent coal. This
25 is snapshot of the past winter. We have roughly 3,653

1 megawatts installed.

2 This is generation by fuel type. In 1997, we
3 project a roughly 19,000 gigawatt hours of generation.
4 That grows to 21,000 gigawatt hours in 2006. Again, we're
5 mainly coal-fired generation, but the contribution of the
6 coal-generation reduces by about ten percent over the
7 planning period and that is -- that's picked up pretty much
8 by the use of pet coke.

9 This is our demand reduction alternatives for the
10 winter. In 1997, we project 1,079 megawatts of demand
11 reduction, and that grows to 1,563 megawatts in the year
12 2006. Our main contributor is -- to this is conservation,
13 and it grows over the period of time by about six percent.
14 Interruptible decreases as does self co-gen and our load
15 management roughly stays around 25 percent.

16 This is our demand reduction alternatives for our
17 summer. Again, we begin with 677 megawatts in 1997 and
18 grow to 829 megawatts in 2006. Here the primary
19 contributors are our self-serve co-gen and our
20 interruptible. Interruptible decreases over that period of
21 time by about 12 percent while conservation increases by 12
22 percent.

23 This is our reliability criteria for 1997. It's a
24 one percent expected unserved energy and a 15 percent firm
25 winter reserve margin.

1 MR. HAFF: Now, that's changed since last year,
2 correct?

3 MR. WARD: Yes, it has.

4 MR. HAFF: Okay. What was your criteria last
5 year? Wasn't it 20 percent reserve margin and an LOLP of
6 .1?

7 MR. WARD: That's correct.

8 MR. HAFF: Okay. We're -- as we heard this
9 morning, we're kind of -- can we infer any relationship
10 between loss of load probability and this new EUE criteria
11 that you use?

12 MR. WARD: What expected unserved energy gives us
13 is not only the frequency of loss of load, but also the
14 magnitude, and it gives us an idea, if we lose load, if
15 it's a one megawatt loss or 1,000 megawatt loss. So it
16 provides us with more information for our planning.

17 MR. HAFF: What kind of study did TECO perform to
18 come up with the revision in your reliability criteria?
19 And we'd like to get a copy of that, if you have one?

20 MR. WARD: Sure, we can provide you with that. In
21 fact, I think we did provide you with part of it in the
22 FMPA Lakeland hearings.

23 MR. HAFF: Okay. I don't have it. I'd like to
24 see it.

25 MR. WARD: I can walk you through briefly what we

1 --

2 MR. HAFF: No, I was just curious. You know, I
3 don't know how the impacts of the EUE calculation's done,
4 and we're wondering if you still do LOLP analysis as a side
5 analysis?

6 MR. WARD: The LOLP that we calculated was an
7 assisted LOLP, and due to the unpredictability of the state
8 situation as it is today, we didn't feel like we could
9 count on this for our planning criteria.

10 MR. HAFF: Okay. We would just like a copy of any
11 studies that you did to come up with the recommended
12 changes in your reliability criteria and the basis for
13 change.

14 MR. WARD: Sure, we can provide that.

15 MR. HAFF: Thanks.

16 MR. WARD: This is a comparison of our 1996
17 expansion plan to our 1997. What you'll see first is that
18 we've deferred our next -- our first CT in the future from
19 2002 to 2003, and a couple of assumptions have changed
20 since last year. We are no longer assuming the Hardee
21 Power Station build-out for the Combined Cycle No. 2.

22 MR. HAFF: And that's also because of the change
23 in your criteria, right?

24 MR. WARD: Correct.

25 MR. HAFF: You're using other criteria this year?

1 MR. WARD: Correct.

2 This is our system reliability that we reported in
3 the ten-year site plan for our new expansion plan, and we
4 show EUE and our winter reserve margin. Our summer reserve
5 margin is slightly higher in those years.

6 This is a look at our integrated resources. The
7 thing that I'll point out here is that our existing
8 capacity decreases by about six percent over the planning
9 period if you include the future capacity additions
10 throughout time, and the demand reduction picks up that six
11 percent.

12 On an incremental look, we add 783 megawatts
13 during our planning period. Of that, 46 percent is due to
14 generating capacity and 54 percent is due to demand
15 reduction.

16 This is a slide showing the impact of our
17 demand-side management on the 1997 expansion plan, and the
18 first column shows where our CT -- our first CT would be in
19 place if we held DSM at 1997 levels. Essentially we're
20 deferring the CT for three years.

21 That's the end of my presentation. Any
22 questions?

23 CHAIRMAN JOHNSON: Any questions?

24 Thank you very much.

25 MR. WARD: Thank you.

1 CHAIRMAN JOHNSON: Gulf.

2 MR. MARLER: My name is Mike Marler. I'm with
3 Gulf Power Company. I'm primarily responsible for the
4 production of the customer, energy and peak demand
5 projections and I'll be presenting our forecast for the
6 ten-year site plan, and my colleague, Mr. Pope, will speak
7 to the resource plan.

8 This is the depiction of our actual 1996 mix of
9 energy sales. We're primarily residential with 43 percent
10 of our sales for the residential class, 29 percent for the
11 commercial class, 18 percent -- almost 19 percent of the
12 industrial class. Street lighting is two tenths of a
13 percent, and it's un-noticeable in the pie chart there.
14 Wholesale, 3.6 percent and losses at 5.4 percent.

15 Our customer growth expectations historically have
16 been 2.2 percent over the last ten years, compound average
17 annual growth, and our projected growth rate for the next
18 two years is at 1.7 percent.

19 This is a comparison of our summer peak demand
20 projections. Historically with the impacts of DSM, we have
21 seen a .2 percent compound average annual growth rate, and
22 our projections over the next ten years, with the
23 implementation of our conservation programs, including the
24 new programs for the goals achievement, is 1.3 percent
25 growth. Without the DSM programs, we would have seen 2.6

1 percent compound average annual growth over the last ten
2 years and 2.0 percent over the next ten years.

3 Our winter peak demand projections indicate a
4 historical growth of 5.2 percent and expected forecasted at
5 .5 percent, and that's primarily due to the implementation
6 of our residential program, which is a little heavier
7 oriented towards winter demand reduction than summer.
8 Without the DSM, we would have seen 5.2 percent growth
9 historically and we would have expected 1.6 percent growth
10 in the forecast horizon.

11 COMMISSIONER DEASON: Why do you -- without DSM,
12 why did you expect to see such a reduction from 5.2 to 1.6?

13 MR. MARLER: I'd like to -- it has to -- go ahead,
14 Bill.

15 MR. McNULTY: Oh, I'm sorry. I would like to
16 maybe ask a question regarding the customer growth
17 forecast. Actually this kind of gets into, I'm sure, some
18 aspects of your winter peak demand. I notice that the
19 historical population changed in this year's ten-year site
20 plan. I was wondering if you'd give me an indication as to
21 whether that was a census update or why this historical
22 data on total population and historical basis from '86 to
23 '95 changed?

24 MR. MARLER: The historical data was a census
25 update, and this is a slide of our actual population

1 projection. Historically we've seen 1.8 percent compound
2 average annual growth, and we're projected at 1.6 percent,
3 and there was a historical step change due to the census
4 update.

5 MR. McNULTY: The total number of customers that
6 has decreased in the 1997 plan over the 1996 plan for the
7 year 2005 is on the order of about 20,000 customers. Is
8 that approximately correct?

9 MR. MARLER: In the year 2006, our '96 budget
10 forecast had projected 415,000 customers. The '97 update
11 projects 399,000 customers. So it's approximately a 16,000
12 decrease, and the reason for that revision was primarily
13 due to the retractions in the outcome of the BRAC
14 associated growth that we had anticipated in the '96 budget
15 forecast. The chief of naval aviation training was
16 supposed to relocate to our service area and chose not to.

17 Additionally, there were two primary fixed-wing
18 squadrons that were supposed to relocate and they also
19 decided not to do that, contrary to what the BRAC
20 recommendations came out to be, and so we slowed down our
21 population growth expectations accordingly.

22 MR. McNULTY: Do you have any estimates on what
23 those impacts would be for those specific back-outs?

24 MR. MARLER: I don't off the top of my head. No,
25 I don't, Bill.

1 MR. McNULTY: Thank you.

2 COMMISSIONER DEASON: Now, can you answer my
3 question?

4 MR. MARLER: Yes, sir.

5 COMMISSIONER DEASON: The question is, why does
6 your winter peak demand forecast without DSM go from a
7 historical of 5.2 to a projection of 1.6?

8 MR. MARLER: Yes, sir. In the forecast horizon
9 we reflect a greater infiltration of heat pumps. We're
10 seeing, based on our latest saturation data survey, more
11 heat pumps replacing strip heat and room unit
12 air-conditioning and things of that nature in addition to
13 the new customer additions that are required to have heat
14 pumps.

15 Historically there was not that situation.
16 Electric strip heat was being installed, and with it is
17 incurred a greater winter demand than associated with heat
18 pumps, and the 5.2 percent growth is also abnormal weather
19 growth rate. It's calculated based on the end points,
20 which includes the extreme winter weather that we had in
21 January of '96, and that's primarily the reason for the
22 change in those growth rates.

23 COMMISSIONER DEASON: So you're saying that the
24 historical had some extreme measurements in it and that the
25 implementation or the saturation of heat pumps into your

1 service territory is the primary drivers?

2 MR. MARLER: In the forecast, as compared to
3 history, yes, sir.

4 COMMISSIONER DEASON: When did the -- you said
5 there is now a requirement for heat pumps.

6 MR. MARLER: It was my understanding that new code
7 does not allow strip heat to be installed in new buildings.

8 COMMISSIONER DEASON: When was that effective?

9 MR. MARLER: I believe that was what y'all
10 implemented in 1990, somewhere thereabouts. I don't know
11 specifically.

12 COMMISSIONER DEASON: So even the historical
13 shows sharp increases in winter peak demand even with that
14 requirement in place during part of that time?

15 MR. MARLER: Those sharp increases, again, would
16 be due to abnormal weather.

17 COMMISSIONER DEASON: Thank you.

18 MR. MARLER: Our net energy for load projections
19 historically have grown at a compound average annual rate
20 of 2.5 percent, and the forecast horizon depicts them
21 growing at 1.9 percent. Without DSM, the growth rate would
22 have been 2.6 percent historically and two percent in the
23 forecast horizon.

24 And finally this depicts over the planning horizon
25 the change in the mix in energy by class and gives you a

1 feel for the growth rates that we anticipate in each of the
2 classes, residential, commercial and industrial. Wholesale
3 is fairly constant over the period.

4 MR. POPE: I just have a couple of slides. This is
5 Gulf's existing capacity resources, a pretty heavy mix of
6 coal with some small intermediate gas-fired units, a
7 combustion turbine and a capacity contract with Monsanto
8 Chemicals in Pensacola comprise the 2100-plus megawatts of
9 installed capacity.

10 Gulf's '97 ten-year site plan is very similar if
11 not almost identical to the plan of 1996 in that Gulf plans
12 to purchase, in the near term, short-term blocks of
13 capacity from others, and our first construction of a
14 combustion turbine -- actually two combustion turbine units
15 is planned for 2003 with a second installation of 2006.
16 And as you'll see on the slide, in the right-hand column is
17 our reserve margins.

18 I'd like to entertain any questions that you might
19 have.

20 COMMISSIONER DEASON: The purchases, that's
21 through the Southern System?

22 MR. POPE: The purchases will be for Gulf Power in
23 order to maintain its reserves. They would come through
24 the Southern Electric System, yes.

25 MR. HAFF: Does Southern have the available excess

1 capacity to serve your reserve margin deficiencies in the
2 planning horizon?

3 MR. POPE: That's correct. Gulf is part of the
4 Southern Electric System in that we plan together in
5 concert with the other four operating companies for a
6 target reserve margin of 15 percent on the Southern
7 Electric System. From time to time other utilities will be
8 either long or short, which will make up the 15 percent.
9 So at times we can lean on them when they're long, and if
10 we're long, they can lean on us.

11 MR. HAFF: Because I'm looking at what you don't
12 have is the winter reserves, and they're below ten percent,
13 or below nine percent every year up until 2003.

14 MR. POPE: That's for Gulf. The Southern Electric
15 System's reserves are above 15 during the winter time
16 because of the large amounts of gas in Georgia and Alabama.

17 MR. HAFF: And there is enough excess capacity in
18 Southern Company to serve Gulf's reduction?

19 MR. POPE: Yes.

20 MR. HAFF: Okay. All right.

21 CHAIRMAN JOHNSON: Is that it?

22 MR. POPE: That's it?

23 CHAIRMAN JOHNSON: No more questions?

24 Thank you very much.

25 MR. POPE: Thank you.

1 CHAIRMAN JOHNSON: Seminole.

2 MR. ZIMMERMAN: Good afternoon, Commissioners.
3 I'm Garl Zimmerman. I'm manager of system planning at
4 Seminole Electric Cooperative.

5 The first chart shows Seminole's history and
6 forecast of energy. We've -- we're forecasting energy of
7 approximately 11,000 gigawatt hours for 1997, growing to
8 21,000 gigawatt hours over a 20-year horizon. We're
9 showing a -- for the past ten years, we've had an average
10 annual growth rate of around seven percent, projecting
11 about 4.7 percent over the next ten years.

12 Our winter and summer demand, our historic system
13 peak demand was, in 1996, 3,040 megawatts. We're
14 projecting that to grow to over 5,000 megawatts over the
15 next 20-year period. Demand is projected -- winter demand
16 is projected to grow over the next ten years at about 4.3
17 percent.

18 Seminole presently has two different facilities
19 that we own. We have Seminole Plant, which has two 625
20 megawatt coal-fired units and we own a 14 megawatt share of
21 the Crystal River Unit 3 nuclear unit.

22 We presently have several purchased power
23 contracts in place, one with TECO Power Services for 295
24 megawatts from the Hardee Power Station, and that's
25 primarily for backup of our Seminole units. We have 145

1 megawatts of Big Bend 4 that can be used -- it's a
2 dispatchable resource. It can be used for any purpose.
3 Other contracts with JEA, Orlando Utility Commission and
4 Florida Power Corporation for firm capacity and energy.

5 In our plans, we have a 440 megawatt gas-fired
6 combined cycle unit. This has been -- the need has been
7 certified by the Commission. It has received Governor and
8 Cabinet approval. All permits are in place and it's
9 scheduled for commercial operation January 1st, 2002.

10 The conservation and load management programs are
11 primarily the responsibility of Seminole's 11 individual
12 distribution cooperatives, however, Seminole does
13 coordinate the load management program by providing signals
14 -- load signals to the member cooperatives so that the load
15 shedding can be done at the time of Seminole's peak when
16 it's most beneficial and provides the maximum benefit in
17 reducing our overall system peak.

18 Seminole historically has planned to a one percent
19 expected unserved energy criterion. We also now plan to a
20 15 percent reserve margin, and the 15 percent reserve
21 margin is the driving criterion. In the past, one percent
22 EUE has -- with the two large coal-fired units has caused
23 us to need considerably more than 15 percent reserves, but
24 as we add more resources and a more diverse mix in the
25 future, the 15 percent reserve margin becomes the driving

1 criterion.

2 Other future requirements. Seminole issued an RFP
3 last year for 150 megawatts beginning in 2000, 350
4 megawatts in 2001, and 500 megawatts beginning in 2002. We
5 solicited proposals from other utilities, from IPPs, QFs
6 and marketers. We are currently in the final phase of the
7 big analysis and negotiations and expect to make a decision
8 on the majority of those requirements by the end of this
9 year.

10 And the last slide I have shows our forecast
11 reserve margin. As I indicated, the one percent EUE
12 criterion caused us in the past to have a fairly high
13 reserve margin. As we get out into the future and add more
14 resources, we're able to target the 15 percent reserve
15 margin and still maintain our one percent or better
16 expected unserved energy.

17 That concludes my presentation.

18 CHAIRMAN JOHNSON: Thank you. Any questions?
19 Thank you very much.

20 Florida Municipal Power Agency.

21 MR. CASEY: Good afternoon, Commissioners. I'm
22 Rick Casey with the Florida Municipal Power Agency, and I
23 want to give you a brief overview of our ten-year site
24 plan.

25 As you'll recall last year -- and this is just a

1 quick history. We currently have 26 member municipal
2 electric utilities in our agency. We were primarily formed
3 back in 1978 to bring two or more electric utilities
4 together to gain economies of scale, primarily in power
5 supply.

6 We currently have five power supply projects. The
7 St. Lucie project has 15 of our 26 members participating.
8 They represent 75 megawatts of the St. Lucie project, or
9 the St. Lucie plant, Florida Power & Light St. Lucie Plant.
10 The Stanton project has six members which take 64 megawatts
11 from the Stanton 1 -- Orlando Utility Commission Stanton 1
12 unit. The Tri-City Project has three members that take 23
13 megawatts from Stanton 1, and the newly operational Stanton
14 2 project has seven members that take 100 megawatts out of
15 that unit. Our fifth project where we spend most of our
16 time is our All-Requirements Project where we have been
17 serving for several years six cities in the state, all
18 their requirements, and currently we have nine members now
19 signed up and we're growing.

20 To elaborate a bit, the original six were Ocala,
21 Leesburg, Bushnell, Jacksonville Beach, Green Cove Springs
22 and Clewiston. We now formally have Vero Beach, Starke and
23 Key West either in or about to come into the project, and
24 I'm showing on here the dates that they are beginning to --
25 will begin to take service from the All-Requirements

1 Project.

2 The name of our special project whereby we're
3 bringing in these cities is called the Integrated Dispatch
4 and Operation Project. Originally back in '88 when it was
5 formulated, we were going to bring in the four cities of
6 Vero Beach, Key West, Ft. Pierce and Lake Worth, and as I
7 mentioned a minute ago, two of these have formally decided
8 to come in, and we're currently planning on Ft. Pierce and
9 Lake Worth coming in the winter of '97-'98. That will then
10 give our project a total summer peak of 955 megawatts.

11 This is a graphical presentation of integrating
12 these four cities into our plans. It's a little bit hard
13 to read on the screen here, but in essence you can see
14 where FMPA has its generation, and bringing in these four
15 cities increases that quite a bit. Then we have our own
16 purchases on top of that, and this is a -- also gives you a
17 feel for what our summer reserve margin looked like for the
18 next ten years.

19 Very quickly, the significant changes in this
20 year's ten-year site plan compared to last year, our '98
21 summer peak demand is down by 2.7 percent. '98 net
22 electric load is up one percent, almost one percent, and
23 Stanton Unit 2 is now in service.

24 This is a comparison of last year's forecast for
25 summer peak demand and the annual net energy for load for

1 the '98 and 2005 time period and the change in growth rates
2 we've used in this year's forecasts compared to last. You
3 can see that the summer peaks for '90 -- let me look here
4 -- I'm sorry -- for '97 are a little bit lower -- excuse me
5 -- '98, I'm sorry -- for '98 are little bit lower and about
6 the same for 2005. NEL is very much the same in '98 and a
7 little bit higher in 2005 in the new ten-year site plan.

8 Just to quickly review our other aspects of our
9 plan, conservation programs, we have demand-side management
10 programs in place at Ocala and Leesburg. They also have
11 other programs which include residential and commercial and
12 industrial energy audits. In the renewable area, as far as
13 solar technology is concerned, we do participate in the
14 Utility Photovoltaic Group.

15 Other supply-side alternatives, we are also
16 supporting the development of the fuel cell by
17 participation through APPA in its commercialization, and we
18 still have a commitment to buy one unit once they do go
19 commercial. We do have two cogeneration projects at two of
20 our member cities, Coca-Cola and U.S. Sugar. We have
21 recently undergone our second RFP process, and this past
22 Wednesday was the deadline to receive proposals. We
23 received 22 proposals from 16 bidders for a total of about
24 3500 megawatts. Our RFP was a combination of long-term
25 needs and short-term needs, totaling 360 megawatts.

1 We do have flexibility in several of our purchase
2 contracts to take that up or down, and we're trying to be
3 competitive, as everyone else is, and so we've gone to the
4 market to see what's out there in terms of some long-term
5 and some short-term. And so we'll be analyzing those and
6 hope to short-list by October and make the final decision
7 in December.

8 The long-term option will be compared against our
9 building a unit of our own at Cane Island. That's the
10 bogey for comparison against what others may offer in terms
11 of constructing or selling to us. So that's going to be
12 our primary focus now for quite some time.

13 Just to mention lastly, we are a member in the
14 Florida Municipal Power Pool along with OUC, Lakeland and
15 Kissimmee. It's been in operation now almost ten years,
16 and it's a share-the-benefits energy pool, and it averages
17 about nine million dollars of savings per year.

18 And that's all I've got.

19 CHAIRMAN JOHNSON: Any questions?

20 MR. FLOYD: This is Roland Floyd with the
21 Commission staff.

22 How big a fuel cell are you committed to buy, what
23 size or capacity?

24 MR. CASEY: Well, since it's in the development
25 stage, that's yet to be determined. I think they've been

1 working on -- it's a combination of small cells. I think
2 it's around a megawatt or two. I'm not real sure. And
3 dependent upon how well it produces commercially, they may
4 reduce the size. So it's not a size commitment so much as
5 it is, once they decide what's optimal, then it -- it's
6 around one to two megawatts, I believe.

7 CHAIRMAN JOHNSON: Thank you.

8 Gainesville.

9 MR. KAMHOOT: Good afternoon. My name is
10 Todd Kamhoot. This is Mark Spiller distributing copies of
11 Gainesville Regional Utilities' presentation. I'll be
12 discussing GRU's electric system forecast, then Mark will
13 present some demand-side management and generation planning
14 considerations.

15 The first three pages of your handout are simply
16 some summary overview information on GRU, and the fourth
17 page is a bullet listing of some forecasting assumptions,
18 all of which are included in the ten-year site plan,
19 itself. So I'd like to begin with what is the fifth page
20 of your handout and get right into comparisons of the
21 forecasts.

22 GRU develops forecast equations for each of its
23 customer classes. Two of the primary drivers in our
24 forecasting models are population, denoted on this graph as
25 P-O-P, and per capita income, denoted at P-C-Y. Both of

1 these variables are provided by the Bureau of Economic and
2 Business Research. This chart shows ten years of history
3 for each variable and the projections used in last year's
4 ten-year site plan forecast versus this year's ten-year
5 site plan forecast.

6 The chart shows that the new population
7 projections are slightly higher than what were used in last
8 year's forecast. This translates to a hire customer
9 forecast, a greater number of customers in the new
10 forecast. The per capita income projections are a bit more
11 modest in the new forecast than they were projected to be
12 in last year's forecast. This has the impact of lowering
13 average usage in a forecast scenario. The compound average
14 annual growth rates are shown for history and the new
15 forecasts on this chart.

16 COMMISSIONER DEASON: I would have thought that,
17 with the new contractor, Steve Spurrier, per capita income
18 would be going up in Gainesville?

19 MR. KAMHOOT: It will be, maybe not as fast as
20 population, though, unfortunately.

21 This chart shows a comparison of GRU's customer
22 forecasts with ten years of history. The growth rate in
23 the new forecast is just slightly higher, basically
24 projecting customers to grow at about two percent a year.
25 Historically they grew at about three percent a year. The

1 absolute levels are also just slightly higher in the new
2 forecast.

3 This chart compares our forecasts of net energy
4 for load from last year's plan and this year's plan.
5 Following on the increase in number of customers, sales
6 forecasts have gone up a little bit over last year's. The
7 rate of growth, however, is essentially the same.

8 Lastly a comparison of summer peak demand forecast
9 for GRU. The new forecast in the year 2006 is one megawatt
10 lower than last year's forecast. You might have expected
11 it to be a little bit higher, given that energy sales went
12 up. We produce our peak demand forecast using a load
13 factor methodology and our assumptions regarding load
14 factors have improved slightly or, in other words, our
15 summer load factor is a little bit better in our new
16 forecast than it was previously so that, therefore, we have
17 essentially the same path for summer peak.

18 If there are no forecast questions, I'll turn the
19 remainder over to Mark Spiller.

20 CHAIRMAN JOHNSON: Okay.

21 MR. SPILLER: My name is Mark Spiller with the
22 Strategic Planning Department of Gainesville Regional
23 Utilities, and the chart that I have here is a
24 representation of the summer demand, which is the peak
25 demand in the GRU system, versus generation capacity,

1 history and forecast out to the end of the 1997 ten-year
2 site plan horizon.

3 The upper line, the red line represents 115
4 percent of peak demand that we forecast. The actual peak
5 demand are the bars and the -- I'm sorry -- the red line
6 represents available capacity. The lower line represents
7 the summer peak demand, and the bars represent 115 percent
8 of peak demand. So what you can see --

9 COMMISSIONER GARCIA: You mumbled that last part
10 and I was having a little bit of a problem understanding
11 the chart.

12 MR. SPILLER: I'm sorry. Let me start again here.

13 The red line represents the available generation
14 capacity that GRU has in place. The bars represent 115
15 percent of the peak demand on our system, history and the
16 forecast, and the green line, the lower line represents the
17 actual summer peak demand per history and our projected
18 summer peak demand.

19 So what the bars represent effectively is a 15
20 percent reserve margin, the top of those bars, and you can
21 see that our available capacity will be sufficient to
22 maintain a 15 percent reserve margin throughout the horizon
23 of this ten-year site plan.

24 Next I'd like to show the impacts of GRU's
25 demand-side management programs within this time period and

1 compare those to the Public Service Commission approved
2 goals which were issued in 1995. As you can see, the
3 estimated savings from the programs that we have in place
4 and are implementing now exceed the Public Service
5 Commission approved goals. We plan to maintain our
6 conservation programs and, in fact, become much more
7 aggressive with our conservation programs through time, and
8 those programs will include our programs to address
9 renewable energy, such as our solar water heating rebate
10 which we have recently put in place, our green pricing
11 program which we have had in place since 1991 and will
12 continue. We finished a project last year, a 10 kW array,
13 and in fact we're looking for our next project to finance
14 under a green pricing scenario.

15 Also we are starting a green marketing program
16 this year in which we will be marketing photovoltaic arrays
17 for installation on residential rooftops.

18 Next I'd like to show the energy impacts of our
19 DSM programs and again compare them to the Public Service
20 Commission approved goals. You can see that throughout
21 the planning horizon that the estimated savings from our
22 programs will exceed the Public Service Commission approved
23 goals.

24 In conclusion, GRU plans to aggressively pursue
25 demand-side management and energy conservation program to

1 promote resource efficiency and to provide our customers to
2 meet their energy end-use needs. Also, GRU does not
3 require additional generation capacity within the planning
4 horizon of this 1997 ten-year site plan.

5 That's the end of my comments. Are there any
6 questions?

7 CHAIRMAN JOHNSON: Thank you. Any questions?

8 Thank you very much for your presentation.

9 We're going to break for lunch.

10 (Whereupon, a pause was had in the proceedings.)

11 CHAIRMAN JOHNSON: We're going to go ahead and
12 finish up. We're not going to take a lunch break. We may
13 be able to finish in the next 15 or 20 minutes. So with
14 that, Jacksonville Electric Authority.

15 MS. GUYTON-BAKER: Good afternoon. My name is
16 Mary Guyton-Baker and I'm an engineer in the Power Supply
17 Planning and Bulk Power Marketing Department. Randy
18 Boswell is the vice-president of that department and he's
19 passing out handouts.

20 Today we'd like to give you a brief overview of
21 JEA's ten-year site plan for the years 1997 through 2006.
22 The plan changes to JEA's generating capacity include the
23 restoration of Northside Unit 1's capacity to 262
24 megawatts. It was earlier de-rated by 11 megawatts. We
25 have 100 megawatts of interruptible load, a purchase of

1 peaking capacity and energy of 40 megawatts in the summer
2 of 1998, 50 megawatts in the summer of 1999, a second
3 purchase capacity of energy that spans over the time frame
4 of October, '96, through to December 2002, and the capacity
5 varies by month and by year but it ranges from 64 to 92
6 megawatts.

7 We also have the repowering of Southside Unit 3 to
8 -- as a combined cycle unit by the summer of 2000, and we
9 have -- we included power purchases in 1999 through 2006,
10 and those purchases at the time of this filing were
11 unspecified.

12 Since that time, we've sent out an invitation for
13 bid and received 11 proposals that included units inside
14 the state as well as purchases outside the state that would
15 satisfy those requirements.

16 MR. HAFF: I'd like to ask a couple of questions
17 about that. According to what you've been able to find
18 from your ten-year site plan -- I'm looking at winter --
19 725 megawatts of your import that you show in here are from
20 unspecified purchases and you're relying on that number to
21 meet your 15 percent reserve margin criteria.

22 MS. GUYTON-BAKER: At the time of the filing, that
23 included units within our territory or within the state,
24 not just imports from outside of the state. We were in the
25 middle of our integrated resource planning process at that

1 time, and now that we've completed that process, the plan
2 is different. It includes CTs and purchases in the
3 short-term as well as repowering one of our existing units
4 that's in cold reserve, but there's a mix of things now in
5 that plan.

6 MR. HAFF: And that plan has been finished?

7 MS. GUYTON-BAKER: Yes, it has.

8 MR. HAFF: Okay. We'd like, I guess, to get an
9 update of this plan --

10 MS. GUYTON-BAKER: Okay.

11 MR. HAFF: -- showing a breakdown of the -- you
12 know, the forms, and also a breakdown of where this import
13 capacity is coming from, because I guess you were here this
14 morning when we had the discussion about the eight percent
15 peninsular. We'd like to see an update of that, if you
16 have it.

17 MS. GUYTON-BAKER: We can get you that.

18 MR. HAFF: Thanks.

19 MS. GUYTON-BAKER: The 1997 plan, like the '96
20 plan, included the repowering of Southside Unit 3, a three
21 megawatt landfill project, as well as the restoration of
22 Northside Unit 1's capacity to 262 megawatts.

23 What's different about the '97 plan over the '96
24 was that we had the category of purchased power versus
25 combustion turbine units.

1 COMMISSIONER DEASON: The combustion turbine
2 units that the power purchases replace in your plan, were
3 your original plan for you to construct those combustion
4 turbine units yourself or to own those combustion turbines?

5 MS. GUYTON-BAKER: The '96, plan, was, yes, to
6 own.

7 COMMISSIONER DEASON: Okay. And now you're
8 looking at power purchases?

9 MS. GUYTON-BAKER: Uh-huh.

10 COMMISSIONER DEASON: And you're going to be
11 acquiring through purchases -- are you going to be going
12 through an RFP process --

13 MS. GUYTON-BAKER: Yes, we've already started that
14 process.

15 COMMISSIONER DEASON: You feel confident then that
16 it's just going to be more economic to go that route as
17 opposed to acquiring your own combustion turbines?

18 MS. GUYTON-BAKER: Well, we are and have looked at
19 building them ourselves as well as purchasing from an IPP
20 or other source, and the current plan that we have has a
21 mix of both.

22 COMMISSIONER DEASON: Okay. Thank you.

23 MS. GUYTON-BAKER: The demand and energy forecasts
24 for the 1997 ten-year site plan shows an increased annual
25 growth rate in the summer and winter peaks as well as the

1 net energy for load. The forecast is based on a trend
2 analysis of historical data, and to benchmark the
3 short-term forecast, JEA staff looked -- or interviewed
4 local experts on JEA's economy and found that that was --
5 that the projections that we've made are good projections.
6 JEA also in prior years have tended to not think that the
7 strong growth that we had in the past would continue into
8 the future, and our philosophy has changed along that
9 line.

10 Lastly, this is a graph of JEA's winter peak
11 demand versus available capacity. The bars show existing
12 capacity plus capacity additions and changes over the
13 ten-year time frame. The bottom line shows JEA's winter
14 peak demand, projected winter peak demand, and the top line
15 shows the 15 percent reserve above the peak demand, and in
16 our plan you can see that the capacity at minimum meets the
17 15 percent reserve margin.

18 And that concludes my forecasts -- I mean, excuse
19 me -- my presentation. Any questions?

20 MR. HAFF: Yes. Are you familiar with the
21 Commission staff's supplemental data request that we sent
22 in February?

23 MS. GUYTON-BAKER: No, I am not.

24 MR. HAFF: Okay. We asked all the utilities to
25 provide us some supplemental information on their plans to

1 try to help us try to assess the --

2 MS. GUYTON-BAKER: Yes, I'm aware of that.

3 MR. HAFF: -- you know, the inner workings behind
4 the summary or the plan that you filed.

5 We've asked for it by letter and talked two or
6 three times and have gotten nothing from JEA. Do you plan
7 on responding at all to that request?

8 MS. GUYTON-BAKER: I had not received your
9 request.

10 MR. HAFF: Okay. It was sent to I guess it was
11 the director of your planning division in February.

12 MS. GUYTON-BAKER: Okay. Are you speaking of the
13 packet that shows the large volume of --

14 MR. HAFF: Fuel forecasts, sensitivities to load
15 forecasts.

16 MS. GUYTON-BAKER: Okay.

17 MR. HAFF: We haven't received anything, and I've
18 talked to somebody over there a couple of times and they've
19 mentioned -- they've promised me three times that I'll get
20 something and I've not seen it yet.

21 MS. GUYTON-BAKER: Okay. I wasn't aware of your
22 phone calls.

23 COMMISSIONER DEASON: Any further questions?

24 I think not. Okay. Thank you for your
25 presentation.

1 City of Lakeland.

2 MR. ELWING: Good afternoon, Commissioners. Thank
3 you for your time. My name is Paul Elwing and I'm here
4 representing the City of Lakeland. I'll wait just a moment
5 as the packets finish getting passed out.

6 The first graph I'd like to put up this afternoon
7 is just a comparison of our customer forecasts over the
8 past two years. Lakeland is continuing to experience
9 growth. We are in a high growth area between Tampa and
10 Orlando, and so our forecast for this year is showing
11 continued growth. The '96 forecast, our growth rate for
12 customers was about 1.98 percent. This year we're
13 forecasting about 2.08 percent over the ten-year horizon.
14 We're predominantly residential. About 81 percent of our
15 customers are residential in nature.

16 Net energy for load, we're forecasting a slightly
17 lower net energy for load growth and ultimate forecast for
18 this year. Our '96 forecast, we're forecasting a rate of
19 about 2.8 percent. This year about 2.78 percent with also
20 a slightly lower starting point. So we're seeing slightly
21 more moderate energy growth, and again, energy contribution
22 on our system is heavily residential at about 52 percent
23 and about 25 percent commercial, and the other 20 percent
24 is industrial and municipal, city use.

25 COMMISSIONER GARCIA: Could you explain that graph

1 a little bit? I want to make sure that I understand it.
2 The higher bar is your historic and the lower is your
3 forecast?

4 MR. ELWING: That is correct. The '96 forecast is
5 the higher set of bars in the background. As I said, our
6 forecasters last year were forecasting both a higher
7 starting point for energy consumption as well as a higher
8 growth rate, which ultimately led to a higher -- total
9 higher energy forecast. This year they are forecasting a
10 more moderate growth rate and a more moderate starting
11 point.

12 Going on to winter peak demand, we are forecasting
13 a slightly higher winter peak demand over the next ten
14 years as compared to the '96 forecast, with growth rate
15 also being slightly higher. We are, as I said, very highly
16 residential and the residential customers tend to drive our
17 winter peak. Our winter peak is also our seasonal peak.
18 And so we tend not to see much saturation as far as winter
19 demand.

20 We frequently see, when customers -- or when we
21 have a cold snap come through, customers can very easily go
22 down to the local K-Mart or Wal-Mart and buy strip heat in
23 the form of portable heaters and plug them in, and so our
24 residential customers do drive our winter demand.

25 Summer peak demand, we're forecasting a lower

1 summer peak demand over the next ten years. Conversely to
2 the winter peak demand, we are seeing saturation on our
3 system, again being predominantly residential. We're
4 getting more and more heat pumps on the system and also
5 air-conditioning is not a commodity that is readily bought
6 at the local hardware store or a Wal-Mart or K-Mart. So we
7 do see a certain amount of saturation in our summer
8 growth.

9 Our summer growth rate from last year was
10 approximately 2.9 -- 2.09, percent this year 2.03 percent.

11 Moving on to fuel forecasts, we're not -- our fuel
12 forecasters and fuel supply people are not foreseeing any
13 radical changes in fuel prices over the next ten years, and
14 so we see a relatively constant relationship between the
15 fuels over the next ten years. Coal and gas are Lakeland's
16 main fuels, and we're expecting -- as I said, expecting a
17 moderate to stable growth rate in prices over the next ten
18 years.

19 Lakeland is currently burning petroleum coke and
20 RDF in our coal unit. Currently Lakeland's coal is made up
21 of approximately 70 percent long-term fixed price
22 contracts, about 30 percent are spot price contracts. Gas
23 for Lakeland is approximately 30 percent long-term and 70
24 percent spot. Our ultimate goal for gas in Lakeland is a
25 about a 50/50 mix of fixed contracts and spot purchases.

1 Based on our current filed plan, just to give you
2 an idea of our capacity mix that we're expecting, currently
3 for 1997, you can see our utility on a capacity basis is
4 heavily weighted on gas. About 60 percent of our capacity
5 is gas, about 27 percent coal, two percent RDF, seven
6 percent in demand-side management programs, and about four
7 percent purchases.

8 The plan as proposed in the April 1 filing, we're
9 proposing adding additional coal capacity which would add
10 to our fuel diversity and brings that up to almost 40
11 percent, with gas remaining at around 51 percent and the
12 other continuing with RDF. Demand-side management
13 increasing as well, purchases decreasing.

14 To give you a little bit of information about our
15 conservation efforts, Lakeland is very much pro
16 conservation. Our residential demand-side management has
17 been very successful for us. We call it our SMART program,
18 Saving Money and Resources Together. It's a direct load
19 control of water heat and HVAC systems. As of January 1,
20 1997, we had 26,611 participants, which is roughly 30
21 percent of our residential customers participating in the
22 program.

23 Our other large residential program is a loan
24 program whereby we, in cooperation with one of the local
25 banks, provide low interest loans for thermal efficiencies

1 and upgrades in the home, such as heat pumps, insulation,
2 caulking, et cetera.

3 Lakeland also has some commercial programs. They
4 have not been as successful as residential programs, but we
5 are still out there trying to market those. We have a few
6 commercial lighting customers. We have one thermal energy
7 storage customer and then we do have our high pressure
8 sodium outdoor lighting program which has been successful
9 in converting all of our public street lighting, as well as
10 being offered to customers for security lighting, private
11 area type lighting.

12 Winter demand reduction, as I said, Lakeland's
13 been very aggressive in demand-side activities, and our
14 winter demand reduction reflects that we currently have
15 about 49 megawatts of controlable load, which equates to
16 just under two kW per customer, and we're forecasting this
17 to grow to about 88 megawatts by 2006. So we're continuing
18 to pursue demand-side management.

19 Summer demand reduction, we're trying to stay
20 aggressive in that as well. Because of the nature of the
21 devices being controlled, hot water heating and
22 air-conditioning systems, we don't get as much reduction in
23 summer as we do in winter. It's currently about 20
24 megawatts of reduction, which is equivalent to about just
25 under 1 kW per customer, and we're expecting that to grow

1 to about 39 megawatts by the year 2006.

2 Another area that Lakeland is getting very active
3 in is in the area of renewables, and we have number of
4 programs going right now and a number of potential programs
5 that we're trying to get off the ground. One program that
6 we've got going right now is our solar street lighting
7 program, which is about three years old, and we have 20
8 solar powered streetlights in place. They replace a
9 typical 70 watt fixture, and those panels have -- or those
10 lights have a battery backup system that provides those
11 lights with up to five nights' worth of service in case of
12 cloudy weather.

13 There's a picture on the next page in your
14 packet. I'm not going to put it up for here for time's
15 sake.

16 One of the other programs that we are pursuing is
17 a distributed generation via solar thermal collectors.
18 What this is a solar hot water heater program, and this
19 would provide the customer with hot water while also
20 reducing demand on the utility grid. The concept in this
21 program is for Lakeland to own, operate and maintain the
22 units thereby removing the obstacle of capital investment
23 by the customer, hopefully increasing penetration.

24 The research and development is funded by the
25 Florida Energy Office and is administered by the Florida

1 Solar Energy Center. The preliminary analysis has been
2 completed and we have the first unit in service in the
3 field right now. The next phases will be to install
4 approximately 50 more units on Lakeland's system for a
5 two-year pilot project, and then hopefully be able to go
6 commercial with this.

7 These systems, based on our analysis, are
8 providing us with a two to four kW demand reduction on each
9 system. So we're -- hopefully they'll be very cost
10 effective for us as a demand-side alternative.

11 The other two projects that are listed up there
12 are PV type systems for residential applications. The one
13 is -- the first one there is an effort to test the
14 integration of a PV system into the utility grid as well as
15 to test the survivability in a high lightning area. One of
16 the unique things about a PV system is that, if you have a
17 downed conductor somewhere and the sun comes back out, in
18 effect, that PV system can feed power back into that
19 conductor, which presents a safety hazard to the linemen
20 who are repairing power lines after a storm.

21 Part of the project will be to test and develop an
22 interface that would disconnect that system if there is a
23 downed power line in the area.

24 The last program listed up there, the name sounds
25 very similar, but this is a program that would be comparing

1 two homes, one equipped with a photovoltaic system and high
2 efficiency appliances with a standard spec-built house to
3 further prove the efficiencies and energy savings that PV
4 can bring to the customer and to the utility.

5 Going on to page 14 of your packet today, just a
6 brief description of our resource planning process.
7 Lakeland uses a 15 percent reserve margin at time of annual
8 peak to plan its system. As I mentioned earlier, our
9 annual peak is winter, so that's -- so we plan for a 15
10 percent reserve margin at winter peak, and we also use an
11 integrated resource planning process that integrates the
12 supply and the demand. The current map that's in the
13 ten-year site plan as filed looked at approximately 20
14 different build options, over 30 different purchase options
15 through an RFP process which is still ongoing. We have not
16 closed that out or made the decision yet, and over 60 BSM
17 options were looked at.

18 We issued an RFP early this spring, just prior to
19 submitting the ten-year site plan, and so there were not a
20 lot of details in the plan concerning the RFP, but just to
21 bring you up to speed a little bit, we had 14 respondents
22 with over 30 different options. Four of those were
23 utilities and the remainder were IPPs and marketers.
24 Options offered ranged from EPC turn-key type options to
25 unit power sale as well as market power options.

1 All told, there were over 10,000 megawatts of
2 power offered to us. We currently have that short-listed
3 down to four and we're in the process of entering
4 discussions with our number-one respondent to get a better
5 understanding of what they responded within the RFP so that
6 we can then compare that against our best build alternative
7 to have the best possible comparison.

8 How Lakeland plans on meeting future needs: Over
9 the short term, five years or less, we plan on meeting our
10 future needs with existing capacity, demand-side
11 management, firm purchase contracts and/or other peaking
12 resource opportunities. Our long-term needs, five years
13 and beyond: An economic base mix of existing capacity,
14 demand-side management, purchases and build options.

15 What our plan as filed currently is showing:
16 Proposed capacity additions in 2001. We're still shooting
17 for the project that we brought to this commission for
18 information purposes this time last year and which was a
19 DOE clean coal technology project. The first phase would
20 be 157 megawatts of coal-fired capacity in a pressurized
21 circulating fluidized bed unit. The plan indicates that in
22 2002 we would need some peaking power, 56 megawatts of
23 combustion turbines to meet reserve margin requirements.
24 2003, the DOE project get a modification. That's part of
25 the overall project. An additional 12 megawatts would be

1 added via topping cycle technology, and then in 2005,
2 another combustion turbine for peaking purposes to meet
3 reserve margin.

4 Another way to show that on the next page, our
5 future resource needs: To kind of give you a comparison,
6 the first column on the left there is our cumulative new
7 load that we're projecting over the next ten years, and
8 this is without reserve. In other words, we're not adding
9 anything in to meet our reserve margin requirements. We're
10 forecasting approximately 190 megawatts of new winter load
11 over the next ten years. Combined with that about 39
12 megawatts of new additional DSM unit additions are on there
13 as per the last sheet.

14 We also are planning retirement of two units when
15 that coal unit goes into service. That reflects Larsen
16 Unit 6 and 7, which are 38 and 31 years old respectively
17 now. And then we currently have some purchase contracts
18 which are shown out on the far right-hand side.

19 Lakeland is also looking at the possibility of
20 additional retirements on its system of aging units. We
21 currently have about 139 megawatts of additional capacity
22 that will be 30 years old or older by the time the proposed
23 unit addition goes in, and so it may be cost effective to
24 replace that capacity at some point in the future as well.

25 Graphically what does that look like? Our winter

1 capacity and resources, the lower tier of blocks there is
2 capacity, starting out with existing capacity and stepping
3 up as we add capacity based on the plan. Firm contracted
4 purchases are the hashed marks on your black and white
5 handout copies, and then the -- for three years there until
6 the unit goes in place, we're projecting some short-term
7 other purchases to meet reserve margin requirements just
8 over the winter peak.

9 COMMISSIONER GARCIA: Do you miss it in -- is it
10 2003?

11 MR. ELWING: In 2003, no, sir; we're right on the
12 line. It's a little hard to tell graphically from the
13 handout, but if memory serve me right and the numbers were
14 run correctly, we maintain 15 percent reserve margin across
15 each winter peak throughout the plan.

16 COMMISSIONER DEASON: What are your other
17 purchase options that allow you to meet the criteria in the
18 years '98 through 2000?

19 MR. ELWING: Our business development group back
20 in Lakeland is in charge of short-term purchases and market
21 opportunities, and they have indicated that they would go
22 to the market to purchase additional capacity just over the
23 winter peak. They have been watching the market closely
24 and feel that there is sufficient short-term capacity
25 available just over winter peak in these interim years,

1 that we -- again, that's just a very short-term, and those
2 amount to on the order of 20 to 40 additional megawatts
3 over the next couple of years. So it's not a lot.

4 COMMISSIONER GARCIA: But you're not engaged in
5 those contracts right now. Those aren't existing
6 relationships. These are things you hope to develop or
7 --

8 MR. ELWING: That is correct. They have not been
9 secured.

10 COMMISSIONER GARCIA: So this isn't firm. This is
11 -- you're hoping to be able to pick up on the market?

12 MR. ELWING: That is correct. We do have one
13 firm contract that does have a supplemental clause, and so
14 we may try and exercise that first.

15 COMMISSIONER GARCIA: Because it's a considerable
16 amount, and in other proceedings that have come before us,
17 one of the issues has been the lack of availability of some
18 of these contracts into the future.

19 MR. ELWING: We would certainly agree with you
20 over the long term, and that's why we're only showing it in
21 the next two to three years. Again, our marketing people
22 feel confident that there is some incremental capacity out
23 there for short periods of time, and we feel that that
24 would coincide with our need.

25 And my last slide is from a summer capacity

1 perspective. Being a winter-peaking utility, if we meet
2 winter peak, we're certainly covered for the summer. So,
3 as you can see, the reliability targets shown on there,
4 which is a little hard to see on the overhead today -- but
5 the reliability target that's listed on both of these is
6 our peak load plus our 15 percent reserve margin. So we
7 feel we've got summer more than adequately covered.

8 That concludes my presentation today. If there
9 are any questions, I'll be happy to answer them.

10 COMMISSIONER DEASON: Questions.

11 I don't think there are any. Thank you.

12 MR. ELWING: Thank you.

13 COMMISSIONER DEASON: City of Tallahassee.

14 MR. BYRNE: Hello, my name is David Byrne. I'm
15 chief planning engineer for the City of Tallahassee. This
16 is my presentation on our 1997 ten-year site plan.

17 Some statistics on Tallahassee's electric system.
18 We have approximately 88,000 customers and we serve an area
19 of about 221 square miles. Currently we own and operate
20 about 500 megawatts of generation resources and we retain
21 firm power contracts for about 100 megawatts.

22 Our all-time high peak demand was 533 megawatts,
23 and that was achieved in February of 1996. Tallahassee
24 computes its system resource needs based on our summer peak
25 loads. Our load forecast is a 20-year forecast, and based

1 on that forecast, we intend to meet a 17 percent reserve
2 margin level. That's our -- that's the reliability target
3 that we have chosen, and the summer demand growth in the
4 1997 forecast is about 1.88 percent annually, which is a
5 little bit higher than we projected in the previous plan,
6 but not significantly, and as a result of that load growth
7 and also the loss of or, rather, the termination of one of
8 our purchase power contracts for 35 megawatts, we're
9 projecting a shortfall in capacity starting in the year
10 2000. As you can see on the chart, it starts at about a
11 need for 102 megawatts and grows as we move out through the
12 ten-year site plan study period. This chart doesn't
13 include any of the new additions that we have planned.

14 COMMISSIONER GARCIA: When are those new additions
15 slated to come on line?

16 MR. BYRNE: What we're -- what I'm going to get to
17 is our plan for meeting some of those shortfalls, and I'll
18 be on that in the next slide.

19 COMMISSIONER GARCIA: Okay.

20 MR. BYRNE: This chart gives a picture of our
21 resource and demand comparison. The bottom portion of the
22 area graph shows our existing generation, about 500
23 megawatts right now. We have some purchased power stacked
24 on top of that, and you can see that in 2000 there's a drop
25 in the level of purchases that we have. We have a

1 currently UPS contract with the Southern Company for 75
2 megawatts and that will be terminated in May of 2000. The
3 bold bar across the top represents our projected peak load
4 in the summer, plus 17 percent reserve margin, and you can
5 see that we're meeting that through 1999, but at the time
6 that we lose the capacity purchase contract, we'll be in a
7 shortfall situation.

8 The way we plan to meet the projected shortfall is
9 one that was based on the results of the need study that
10 was approved this spring by the PSC. Part of our resource
11 plan will include conservation and energy efficiency
12 programs, or demand-side management, and another part of
13 it, a much larger portion of meeting the shortfall will be
14 to build Purdom Unit 8, which is a 250 megawatt gas
15 combined cycle plant. We also looked at short-term and
16 long-term purchased power options but found that they were
17 not economic.

18 The City's demand-side management includes a mix
19 of residential and commercial programs. During the need
20 study that we conducted over the last year, we found that,
21 although we're pursuing demand-side management goals which
22 meet the filing we made with the PSC in 1996, those DSM
23 contributions are not going to be sufficient to either
24 avoid or defer our next supply-side resource. We are
25 continuing, however, to look at increased enhancements in

1 our DSM program.

2 Our supply resource, as I stated, was Purdom Unit
3 8. The unit's to be added at the existing site in St.
4 Marks, Florida, by May of 2000. It will be a 250 megawatt
5 gas combined cycle plant with a high efficiency of about
6 7,000 Btus per kilowatt hour. We expect the capital cost
7 to be about \$110,000,000 or \$440 per kilowatt, and no new
8 transmission facilities will be required for this
9 facility.

10 For the Purdom project, there are a few
11 milestones. The first one we've passed at this point is
12 the need determination. As I said, this was certified this
13 June by the PSC, and upcoming is the permitting for the
14 project, and expected completion date is in the spring or
15 summer of next year, 1998.

16 In addition to going forward on permitting the
17 project, we're also planning on retesting the purchased
18 power market prior to making the final decision to build
19 the project. We just want to make -- have final certainty
20 at least at the farthest out date in the future as possible
21 that we are making the right economic decision.

22 That concludes my presentation on the resource
23 additions.

24 We also have some transmission plans. I did say
25 that the Purdom project itself would not require any new

1 transmission lines. It will, however, require a couple of
2 upgrades of some of the lines. We plan to re-conductor two
3 lines so that the additional power from the Purdom 8
4 project can be delivered to our system.

5 Additionally, we're also building some new
6 substations to serve growing load on the east side of
7 Tallahassee and will be connecting those to our existing
8 system with some new 115 kV transmission lines. We'll be
9 expanding our network with two new loops on the east side,
10 and those will be primarily to serve new load, not to add
11 to the state transmission network.

12 And that concludes my presentation.

13 Are there any questions?

14 COMMISSIONER DEASON: Questions?

15 I think there are none.

16 Thank you for your presentation.

17 MR. BYRNE: Thank you.

18 COMMISSIONER DEASON: Staff?

19 MS. PAUGH: Mike Haff is handing out supplemental
20 question to which staff has requested responses. We will
21 follow up with a memorandum to all of the participants in
22 these proceedings insofar as some of them have already
23 departed. We'll make copies available at either side of
24 the room for your pick-up on the way out.

25 CHAIRMAN JOHNSON: Any other concluding comments?

1 MR. JENKINS: The only thing I'd like to add is,
2 the thrust of these questions were put together because of
3 staff's uncertainty of whether an independent power
4 producer can be certified under our present power plant
5 siting act. We think the issue becomes important not only
6 because of where the rest of the nation seems to be going
7 but because of what we appear to see as the capacity
8 shortfalls in the later years.

9 We do not want to restrict or harm Florida's
10 economic growth or electric reliability by restricting
11 people who want to build new power plants from building
12 because of our laws or our interpretations of laws. We are
13 asking for interested persons to provide us a reply to
14 those questions within a month.

15 Do you want to give them a date certain?

16 MS. PAUGH: September 9th.

17 COMMISSIONER DEASON: Answers are sought by
18 September the 9th.

19 MS. PAUGH: That's correct.

20 MR. JENKINS: And if you have any questions about
21 the questions, do not hesitate to give -- you, Leslie?

22 MS. PAUGH: Please feel free to contact Michael
23 Haff or myself, Leslie Paugh, with PSC staff.

24 COMMISSIONER DEASON: Okay. Anything further?

25 MR. JENKINS: That's it.

1 COMMISSIONER DEASON: Hearing none, I want to
2 thank everyone for your participation and your
3 presentations at today's workshop.

4 This workshop is now concluded.

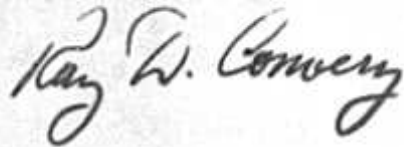
5 (Whereupon, the proceeding was concluded at 1:50
6 p.m.)

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C E R T I F I C A T E

1 STATE OF FLORIDA)

2 COUNTY OF LEON)

3 I, RAY D. CONVERY, Court Reporter at Tallahassee,
4 Florida, do hereby certify as follows:
56 THAT I correctly reported in shorthand the
7 foregoing proceedings at the time and place stated in the
8 caption hereof;9 THAT I later reduced the shorthand notes to
10 typewriting, or under my supervision, and that the
11 foregoing pages 3 through 149 represent a true, correct,
12 and complete transcript of said proceedings;13 And I further certify that I am not of kin or
14 counsel to the parties in the case; am not in the regular
15 employ of counsel for any of said parties; nor am I in
16 anywise interested in the result of said case.17 Dated this 18th day of August, 1997.
1819 
2021 RAY D. CONVERY
22 Court Reporter
23
24
25