

BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

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In the Matter of  
Commission review of  
electric utility ten-year  
site plans.  
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PROCEEDINGS:           WORKSHOP

BEFORE:                   CHAIRMAN JULIA L. JOHNSON  
                              COMMISSIONER J. TERRY DEASON  
                              COMMISSIONER SUSAN F. CLARK  
                              COMMISSIONER JOE GARCIA  
                              COMMISSIONER E. LEON JACOBS, JR.

DATE:                     Friday, September 11, 1998

TIME:                     Commenced at 10:40 a.m.  
                              Concluded at 3:40 p.m.

PLACE:                    Betty Easley Conference Center  
                              Room 148  
                              4075 Esplanade Way  
                              Tallahassee, Florida

REPORTED BY:            H. RUTHE POTAMI, CSR, RPR  
                              Official Commission Reporter

DOCUMENT NUMBER-DATE

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REG. RECORDS REPORTING

1 **IN ATTENDANCE:**

2 **LESLIE PAUGH**, Division of Legal Services,  
3 Florida Public Service Commission.

4 **TOM BALLINGER**, Division of Electric & Gas,  
5 Florida Public Service Commission.

6 **MICHAEL HAFP**, Division of Electric & Gas,  
7 Florida Public Service Commission.

8 **BOB TRAPP**, Division of Electric & Gas,  
9 Florida Public Service Commission.

10 **KENNETH DUDLEY**, Division of Electric & Gas,  
11 Florida Public Service Commission.

12 **JOHN McWHIRTER**, Florida Industrial Power  
13 Users Group.

14 **JOE McGLOTHLIN**, Florida Industrial Power  
15 Users Group.

16 **KEM WILEY**, Florida Reliability Coordinating  
17 Council.

18 **BOB ADJEMIAN**, Florida Reliability  
19 Coordinating Council.

20 **STEVE DAVIS**, IMC-AGRICO.

21 **ROCKFORD MYER**, Florida Gas Transmission.

22 **MICHAEL RIB**, Florida Power Corporation.

23 **VINNIE DOLAN**, Florida Power Corporation.

24 **MARIO VILLAR**, Florida Power & Light Company.  
25

1                   ROBERTO DENIS, Florida Power & Light  
2 Company.  
3                   BILL POPE, Gulf Power Company.  
4                   CARL ZIMMERMAN, Seminole Electric  
5 Cooperative.  
6                   RICHARD CASEY, Florida Municipal Power  
7 Agency.  
8                   ROGER WESTPHAL, Gainesville Regional  
9 Utilities.  
10                  RANDY BOSWELL, Jacksonville Electric  
11 Authority.  
12                  ROBERT MILLER, Kissimmee Utility Authority.  
13                  PAUL ELWING, City of Lakeland.  
14                  MATT BLANKNER, Orlando Utilities Commission.  
15                  EDWIN FRAZIER, City of Tallahassee.  
16                  DAVID BYRNE, City of Tallahassee.  
17                  JOHN CURRIER, Tampa Electric Company.  
18                  MARK WARD, Tampa Electric Company.  
19                  JON MOYLE, U.S. Generating Company.  
20                  MARCIA ELDER, American Planning Association.  
21                  DEB SWIM, Legal Environmental Assistance  
22 Foundation.  
23  
24  
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P R O C E E D I N G S

(Workshop convened at 10:40 a.m.)

CHAIRMAN JOHNSON: Ladies and gentlemen, if everyone can be seated, we'll go ahead and begin the workshop today.

Today's workshop is to inform and educate the Commissioners regarding individual utilities' ten-year site plans, as well as an overview of Peninsular Florida reliability from the Florida Reliability Coordinating Council. The Commissioners will be seated in the audience or here in the front row. Commissioner Clark will be joining us soon.

For those of you who have not participated in the process in the past, remember that comments and questions are welcomed from interested persons, and we will just proceed in a very orderly manner. To the extent that you do want to make comments, we will have a time and a place for that. We will generally begin with Commissioners' comments and questions, but we will entertain questions from interested persons.

I understand that Mr. McGlothlin and perhaps Ms. Swim may want to address the individual utilities after they make their presentation. Is Ms. Swim here? I haven't seen her. I understand that there are -- oh. I just wanted to make sure you were here. I

1 didn't see you.

2           Staff has put together an agenda as well as  
3 a packet of tables containing a summary of each  
4 utility's ten-year site plan, and it contains Staff's  
5 concerns regarding the FRCC reliability assessment and  
6 individual utility plans and information requested  
7 from individual utilities.

8           The information that is missing from the  
9 tables that was requested at the August 25th workshop  
10 should be filed by the end of today's workshop. I  
11 understand that Staff has received a few of the  
12 responses and that most of their questions from the  
13 individual utilities will be directed towards getting  
14 the rest of the information.

15           With that, I don't believe we have any other  
16 preliminary announcements. There is a schedule that I  
17 think you've all been provided with. Have they all  
18 been provided with the schedules?

19           **MR. HAFF:** Yes.

20           **CHAIRMAN JOHNSON:** Is the mike system on?

21 (Pause) Is it on now?

22           **MR. BALLINGER:** There you go. All the  
23 utilities were provided with those tables, at least  
24 the 12 utilities who filed ten-year site plans.

25           **CHAIRMAN JOHNSON:** Very well. Then with

1 that, I'll then turn it back over to Staff to walk us  
2 through the individual presentations.

3 **MR. HAFF:** This is Michael Haff on  
4 Commission Staff. Am I on? Okay.

5 I'm going to pass around a sign-in sheet for  
6 everyone who is present to sign your name, your  
7 company and your phone number. I'd also like to note  
8 that when anyone is giving a presentation or  
9 addressing the Staff or Commission to please state  
10 your name and who you're with so the court reporter  
11 can make a record of it.

12 And I guess first on our list is the  
13 presentation by the FRCC on the load and resource plan  
14 and the reliability assessment, and they can sit at  
15 the end of the table down there and use that overhead  
16 projector if necessary.

17 **MR. WILEY:** I'm Ken Wiley. I'm with the  
18 Florida Reliability Coordinating Council, and I'm the  
19 staff member, and with me today is Henry Southwick.  
20 Henry is the chairman of our engineering committee and  
21 our reliability assessment group, which is the major  
22 group that determines reliability policy for our  
23 region.

24 Also with me is Bob Adjemian. Bobby is the  
25 chairman of our study group that performed the



1 reliability study this year, and he'll be presenting  
2 that in a few moments. And also today Rock Myers,  
3 president of the Florida Gas Transmission, will be  
4 making a short presentation, since our reliability  
5 plans in the future include gas; and for the recent  
6 pipeline considerations we had, we thought it would be  
7 nice for Mr. Myers to talk to us today.

8 I wanted to make a few introductory remarks  
9 before Bobby discusses the reliability study that we  
10 made and try to put the reason why we're here today  
11 into perspective.

12 I know that t' e Staff has communicated to  
13 the Commission some of their concerns about the  
14 reliability studies, and I wanted to address that with  
15 some of these remarks.

16 **CHAIRMAN JOHNSON:** Let me pause for a  
17 second. I'm going to have someone check the mike  
18 system.

19 **UNIDENTIFIED SPEAKER:** We cannot hear in the  
20 back. It's not working.

21 **MR. WILEY:** How about now? Is that better?

22 **UNIDENTIFIED SPEAKER:** No.

23 **CHAIRMAN JOHNSON:** I'm going to have someone  
24 check the mike system. It's not --

25 (Pause in proceedings.)

1           **MR. WILEY:** In order to put today's  
2 discussion in perspective, I just wanted to review why  
3 I think that we're here.

4           Last year when we went through the review of  
5 the electric utilities' ten-year site plans to produce  
6 this document, we in the staff got concerned early on,  
7 and they asked us to run some reliability studies; and  
8 we did that. And, as you recall, we had discussions  
9 in November and December trying to resolve some of the  
10 questions that that reliability study put forth last  
11 year.

12           And out of that entire process, the  
13 Commission asked the FRCC to go back and assess the  
14 criteria or the tools that it uses to determine  
15 whether or not the generation resources in the  
16 Peninsula are adequate or not.

17           And just a little historical perspective on  
18 what those tools that are available are: In the '80s  
19 when we were going through annual planning hearings,  
20 the industry used what we called a loss of load  
21 probability study technique, and this was a  
22 mathematical probability model. And it allowed us to  
23 analyze how reliable the generation supply was to meet  
24 the projected loads into the future, and we measured  
25 that in terms of how many days per year or days per 10

1 years that we would expect loss of firm customer load.

2           And it was a statistical mathematical tool,  
3 and being a mathematical tool it has a lot of input  
4 data into it. And one of those input data was how  
5 reliable are each individual generating units that  
6 were in the state; what was their individual  
7 reliability. The words that we used, technical word,  
8 was what were their "availabilities."

9           And during that period in time,  
10 availabilities of our generating units in total were  
11 approximately 80%. Well, the economics of the past  
12 decade have caused utilities to look at that, and  
13 economics say that they needed to improve that  
14 reliability in order to not build as much new  
15 generation; and that was one of the factors.

16           So what we have seen over the past decade is  
17 the availability of all the generation in the state as  
18 a whole go from a roughly 80% level to around 90%, a  
19 very significant increase.

20           So last year and this year when we ran our  
21 studies using this loss of load probability technique,  
22 because the availability had significantly increased,  
23 the answers that came out of that study were not what  
24 we were used to seeing back when the availability of  
25 our generation was at the 80% level; and we all

1 weren't exactly sure what it was telling us because of  
2 the numbers.

3           And, therefore, we started looking at the  
4 other factor that we have historically used of  
5 installed reserve margins; how much more generation do  
6 you have to -- you know, available to meet the load.  
7 And historically we had used, as a guideline, between  
8 15 and 20% during the 1980s and the early '90s.

9           And so all of a sudden these two tools were  
10 a little -- well, they were in a new era because of  
11 these increased availabilities. And you, the  
12 Commission, asked us is there another tool that you  
13 can go out there and find to analyze this.

14           And so that was our job this past year. And  
15 Bobby is going to present to you a study in a moment  
16 that we came up with to try to answer that question.  
17 And the net effect of what that study was, to try to  
18 determine was, what level of installed reserves should  
19 we have in order to ensure that our generation is  
20 adequate; and so that was the answer that we were  
21 trying to seek.

22           Based upon the results of that study, the  
23 FRCC just this week adopted a reliability standard for  
24 this purpose of 15% installed reserve margin as its  
25 minimum over the peak periods.

1           When you look at our existing ten-year plan  
2 that was presented to the Commission this year, the  
3 FRCC's installed reserve margin over every one of the  
4 peak periods, the 20 peak periods for the next 10  
5 years, is at or greater than 15%. As a matter of  
6 fact, there are only two of those peak periods, which  
7 are two winter peaks, that are at 15%. Everything  
8 else is above it. And based upon the study that Bobby  
9 will be discussing with you, and based upon the  
10 history, and based upon looking around the country,  
11 that is why we adopted that as our standard today.

12           We understand that -- Staff has pointed out  
13 to us and we understand that this was not a rigorous  
14 mathematical model that we utilized to come up with  
15 this. We feel that we need to continue to look at  
16 this as we go through next year and the year  
17 thereafter.

18           The Staff has proposed a proposed  
19 probabilistic technique using the same data base we  
20 had, and at this time we don't feel completely  
21 comfortable with using that particular method on the  
22 data that we have at hand. We feel that over the next  
23 year we do need to work with Staff to see if  
24 probabilistic techniques can be factored into the  
25 study that Bobby is going to be talking about. But

1 until such time, we have certain things to go on, and  
2 that is the LOLP study he's going to talk about and  
3 its reserve margin analysis.

4           When we looked around the rest of the  
5 country at some of the other reliability regions to  
6 see what they have been doing, we find that there are  
7 at least three other regions that utilize a 15%  
8 reserve margin as their planning guidelines, and we  
9 find there's still a couple of regions in the country  
10 that use this one day and 10 years loss of load  
11 probability as its measure.

12           And one of these regions, which is Texas,  
13 the Electric Reliability Council of Texas, is a region  
14 that is somewhat similar to FRCC in that they're  
15 isolated electrically over there just as we are here  
16 in Peninsular Florida, and they're using this 15%.

17           So based upon all of these factors, the  
18 Reliability Council definitely feels that the council  
19 as a whole, its generation plans are adequate over the  
20 next 10 years; and we feel that that constitutes a  
21 suitable regional plan in the ten-year site plan  
22 parlance. And with that, I turn this over to Bobby  
23 for him to discuss our studies.

24           **MR. ADJEMIAN:** I hope I can live up to the  
25 expectations here. But as you'll see -- I think it

1 was -- I like to call it kind of an elegant study, in  
2 one sense, but also based on intuition.

3           But let me start here at the beginning.  
4 Here's the two things that I really expect to address:  
5 The load and resource plan of the FRCC for the 10-year  
6 period of 1998 through 2007, and then the reliability  
7 assessment study, which took the bulk of the activity  
8 this year for the FRCC study group, which also  
9 includes the reserve margin standard.

10           So starting with the load and resource plan,  
11 I will take you through a series of slides that  
12 summarize -- and I realize this is not very easy to  
13 see, but I'll describe them -- summarize the key  
14 components of the plan.

15           Starting with demand, these numbers are in  
16 the order of starting around 35,000 megawatts, the top  
17 line, all the way out to 43,000 megawatts. What you  
18 see is the winter peak demand is the top line. The  
19 red line is the summer peak demand that's projected.  
20 As you'll see, winter is projected to be higher -- to  
21 have higher demand than the summer.

22           The level that you see here, let's say  
23 compared to last year's load and resource plan, is  
24 slightly higher in the out years, about 600 megawatts  
25 higher than last year's load and resource plan.

1           Next I'll discuss the generation capacity  
2 that's in place and expected to be in place towards  
3 meeting this demand. The green bars is where the  
4 capacity is today, and the number off to the right is  
5 in 35,290 megawatts, and then the light blue shades is  
6 the net capacity additions that are being -- going  
7 to -- are projected to come into place between now and  
8 the 2007 period. And the last year cumulative is  
9 7,800 megawatts. So we are starting from 35,000 and  
10 we're adding a net almost close to 8,000 megawatts of  
11 capacity in summer demand terms. Summer rating.  
12 Sorry.

13           Also comparing to 1997 what I think is  
14 pretty relevant is 8,000 megawatts compared -- for the  
15 '98 plant compared to only about 2,800, megawatts in  
16 the '97 plan. So it's significantly additional  
17 generating capacity that utilities have -- (pause) --  
18 trying to focus this a little better.

19           Winter we're adding nearly 8,700 megawatts  
20 over the 10-year period as it compares to a little  
21 over 4,000 in last year's plan, almost twice the  
22 amount of generating capacity.

23           The next two slides deal with dispatchable  
24 DSM load management interruptible. For the summer  
25 period looking at the out year, we have a total of



1 close to 3,300 megs of total dispatchable DSM being  
2 available towards meeting load, and in the winter that  
3 number is about 4,300 megs towards meeting load.  
4 These numbers are very similar to what were in the  
5 plan, in last year's plan. (Pause)

6 This table discusses the available  
7 uncommitted transfer capability into the state over  
8 our transmission tie lines. It's also referred to as  
9 the tie line assistance. It's in the box, and as you  
10 see, it's a number ranges close to 1,000 megawatts.  
11 That's about the same amount that was assumed last  
12 year.

13 The fuel mix, projected fuel mix under  
14 this -- the composite of these plans of the utilities  
15 in the state is for 2007 versus actual 1997. You  
16 notice there's not really a big difference. The gray  
17 and darker shades of gray are basically all fossil  
18 fuels; gas, oil and coal. And coal is expected to  
19 remain the predominant source of fuel followed by gas  
20 and oil.

21 And the last graphic I have for the load and  
22 resource plan is the resulting reserve margin. It's a  
23 little hard to see. But reserve margin, as Ken  
24 defined it, is the excess resource available to meet  
25 load. And basically if you have a reserve margin of

1 zero, that means you have just enough resources to  
2 meet your expected load.

3           So typically a planner would want to have  
4 some reserve margin, more than zero, so that any  
5 contingencies to the generation or additional load,  
6 unexpected load increases could be in place, be able  
7 to supply it.

8           And what we have here is the dark bars are  
9 the summer reserve margins, and the white bars are the  
10 winter reserve margins, as Ken mentioned. In the  
11 summer, the reserve margins range between 17 and 20%.  
12 In the winter they range between 15 and 19%.

13           Now I'll turn it over to reliability  
14 assessment study. And here's what this piece of the  
15 presentation is going to cover. Focused in three  
16 areas; a reserve margin analysis, loss of load  
17 probability analysis, and then we have a section on  
18 natural gas transmission which, as Ken mentioned,  
19 Mr. Rock Myer from the FGT is here, and he's going to  
20 address that. He's going to immediately follow my  
21 presentation.

22           The reserve margin analysis had really two  
23 tasks. One was to develop a standard for reserve  
24 margins, and then the second one was to take the  
25 resulting reserve margins from the 1998 load and

1 resource plan that I just showed you earlier and  
2 compare it to the standard to see how well they  
3 measure up to make a determination of resource  
4 adequacy.

5           So let me go to Number 1: How do we develop  
6 a reserve margin standard. As I said, I thought our  
7 approach was actually fairly intuitive. We asked  
8 ourselves why do you need that reserve margin. And  
9 clearly we need the reserve margin to cover unforeseen  
10 events, such as unit outages and load increases, for  
11 instance, beyond what's expected.

12           Well, so that means that we develop a  
13 system, we design a system to meet certain  
14 expectations. If those expectations are not met  
15 because of we didn't do our planning right, that means  
16 maybe our forecasting is in error in some fashion,  
17 that we're not doing the right -- we're not capable to  
18 be very accurate in predicting what's going to happen  
19 in the future.

20           So keeping that in mind, going back to  
21 history, we said, let's look at the history, 1993 from  
22 1997, and look at the relevant components that enter  
23 the calculation or reserve margin, which is shown  
24 right here -- primarily installed generation and load,  
25 of course, the two biggest ones, but there's also

1 purchases and imports and load management -- and find  
2 out how the forecast for a given year compared to the  
3 actual for that year.

4           So as we identify this area in our ability  
5 to predict accurately, that composite of those errors  
6 becomes, in essence, the required reserve margin,  
7 minimum reserve margin. So that study concluded that  
8 a reserve margin of 13% would be adequate to cover the  
9 historical inaccuracies in our forecasts, both for  
10 summer and winter.

11           However, the study group recommended a 15%  
12 standard as that was a level of reserve margin that,  
13 as Ken mentioned, several intuits have been using  
14 already and they felt comfortable with that level of  
15 reliability, as well as we know that other reliability  
16 councils have adopted, and furthermore to just give us  
17 some additional margin for -- of safety. I'm glad to  
18 hear the executive committee has adopted it.

19           So the standard of 15% was what was utilized  
20 to measure the adequacy of the load and resource plan.  
21 And you'll recall from the bar charts that you saw  
22 that at no time we had reserve margin that we're  
23 dipping below 15% percent. So we felt that from a  
24 reserve margin perspective, the resource plan is  
25 adequate.

1           However, traditionally we've been utilizing  
2 another method, which is the loss of load probability  
3 approach. And why would we want to look at a loss of  
4 load probability is because a reserve margin looks at  
5 basically two instances in a year; a summer peak and a  
6 winter peak. And yes, we can meet those adequately,  
7 we feel, with 15%, but there's an awful lot of time  
8 between two peak periods in a year where we don't know  
9 what happens, and we need to take care that the plan  
10 is reliable and can meet all the needs throughout the  
11 course of a year.

12           That's where loss of load probability comes  
13 in, which basically measures your ability to meet, on  
14 a daily basis, the expected demand, and it calculates  
15 that as an expected value of number of days in a year  
16 that you cannot meet that demand. The accepted  
17 standard in the industry is one day in 10 years, or  
18 since this is done on a year-by-year basis, .1 days  
19 per year.

20           Let's go straight to the summary of the  
21 results of the loss of load probability analysis. The  
22 reference case showed no violations in the 10-year  
23 period. In other words, we have never exceeded the .1  
24 day per year criterion. But we decided to also run a  
25 series of tests on the LOLP method to see how robust

1 our system is, and we tried several sensitivities.

2           One had to do with the load management  
3 interruptible. Of course, that's nonfirm load, and  
4 utilities can choose to disconnect that load at times  
5 of peak demand or other stress conditions. But we  
6 wanted to see to what extent we need to rely on this.  
7 So we tried a case where none of the interruptible  
8 load was going to be affected or, in other words,  
9 exercised, and we found just like in the reference  
10 case that there were no violations of the LOLP.

11           Next we tested the totality of the DSM,  
12 dispatchable DSM, both residential and  
13 industrial/commercial load management fully. As you  
14 probably know, companies have the ability to use these  
15 measures fractionally as well, in fact, focus it by  
16 appliance as well; and most likely you would not fully  
17 commit all of the DSM. But in any event, that's what  
18 we decided to do here to try and stress against  
19 conditions, and we did find that there would be two  
20 violations.

21           Next we turn to EFOR, which stands for  
22 equivalent forced outage rate. Forced outage rate is  
23 a significant measure of availability of generation.  
24 And, as Ken mentioned, there has been a steady  
25 improvement in generating unit availability in the

1 state of Florida in the PRCC over the last 10 years,  
2 but we wanted to test to see how well the system can  
3 withstand increases in forced outage rates.

4           The embedded reference case does include a  
5 certain level of forced outage rates. It's around 5%.  
6 So what we did is we went back to the '93-97 average,  
7 which was about 7 and a half percent. So we added the  
8 2.7 to the 5. So basically we increased the forced  
9 outage by 50%, and we found out that there still were  
10 no violations. Of course, we did this for every  
11 generating unit in the state, so it's a pretty severe  
12 contingency.

13           And then we went further to see how it would  
14 look if we were to revert back to the 10-year average  
15 rather than a 5-year average, which in essence doubled  
16 the forced outage rate that's in the reference case,  
17 and then several violations popped up. Obviously  
18 these forced outage rate improvements that have been  
19 achieved over the years have not been just a random  
20 outcome. It's a result of processes the utilities  
21 have undertaken through preventive maintenance,  
22 through weatherization of plants to try and improve.  
23 And those are in place, and I wouldn't expect that  
24 they will unravel suddenly. But in any event, we  
25 wanted to test the system's robustness in forced

1 outage rate increases.

2           Finally we looked at -- well, I guess two  
3 more cases. We looked at the load forecast  
4 contingency, if you will. And what we tried to do  
5 there is a load forecast increase of starting at 2% in  
6 the early years and increasing to 10% in the out  
7 years, because basically that's what we found from  
8 analyses that we've done in the past, that typically  
9 we're better in forecasting near term than long term.

10           And when we did that we found that there  
11 were some violations showed up in the 2005 and on  
12 period, which is by then you're probably about 7 to 8%  
13 over your forecast. Of course, the assumption here is  
14 that we're just looking at loss of load probability.  
15 And, as we mentioned earlier, we're also going to be  
16 looking at reserve margins.

17           If I were to increase the peak load by 7 or  
18 8%, my reserve margin will drop well below 15%, and  
19 clearly utilities would respond to that. Here we're  
20 just assuming that we're blinded to that effect, and  
21 we just wanted to see how bad things can get. And  
22 actually 2005 is not so bad. We could really react  
23 well before then if loads start picking up.

24           And the final case we looked at was at the  
25 tie line assistance. We wanted to see for purely



1 isolated from available transmission that we have, and  
2 it was not available anymore, what effect that would  
3 have and, in essence, there was no effect. There was  
4 no violations as in LOLP, from an LOLP perspective.

5 So in summary, there were three items that  
6 basically I covered here. One was that our load and  
7 resource plan showed that we're maintaining at or  
8 better 15% summer and winter reserve margins through  
9 the addition primarily of between 8,000 and 9,000  
10 megawatts, summer/winter of new generating capacity; a  
11 big increase over last year's plan.

12 Secondly, we performed a study, the FRCC  
13 performed a study, that established a 15% as a  
14 standard to measure resource adequacy as a reserve  
15 margin, from a reserve margin perspective, which we  
16 have adopted now to -- compliment the LOLP criteria.  
17 I'm sure LOLP is indebted to reserve margin from --  
18 complimentary of it. I think we meant "compliment"  
19 there, but --.

20 And finally, the LOLP analysis indicated  
21 that under a certain -- quite a range of contingencies  
22 of key assumptions of load forecast, unit availability  
23 and, let's say, reduced tie line assistance, the  
24 system is strong enough, or designed to be strong  
25 enough to be able to withstand those contingencies;

1 and for those cases that we cannot, we feel that there  
2 are adequate processes in place that will be able to  
3 respond in time to be able to account for these  
4 situations.

5           With that, I will turn it over to Mr. Rock  
6 Myer from the FGT. He's the president of FGT, and  
7 he's going to address some gas issues on gas supply,  
8 gas pipeline expansion, and gas pipeline reliability.  
9 And I think after that, of course, we'll be open to  
10 answer any questions that you might have.

11           **MR. BALLINGER:** Bobby, did you ask for  
12 questions on your presentation before the FGT goes, or  
13 do you want to wait?

14           **MR. ADJEMIAN:** We can do it either way.

15           **MR. BALLINGER:** Okay. I've got a few  
16 questions for you, if you could, and perhaps it may be  
17 a bit --.

18           You mentioned the FRCC adopting the 15%  
19 reserve margin, but you didn't go into any explanation  
20 of how they came up with that number. I wonder if you  
21 could give us a brief synopsis of how you arrived at  
22 that number. I think you probably had the spreadsheet  
23 that shows all the contingency factors.

24           **MR. ADJEMIAN:** Tom, I don't have the  
25 spreadsheet with me. I'm sorry. But as I said

1 earlier, though, we looked at the various components  
2 that go into the reserve margin calculation, the  
3 installed generation, the load forecast and load  
4 management purchases and imports, and we went back to  
5 history and found out how good we were in predicting  
6 them.

7           And when we determined that, let's say, in  
8 the case of generation we found out that we seemed to  
9 be missing available generation on peak by about 6 to  
10 7%, which means that instead of assuming it in a  
11 reserve margin calculation that the generation is  
12 going to be there 100% available, that I put my  
13 formula to calculate reserve margin, and we said,  
14 well, it's only 93 point so percent of that that's  
15 going to be available.

16           So we basically calculated reserve margins  
17 using those factors, those uncertainty factors, and  
18 then determined what the resulting reserve margin  
19 would be when you account for those inaccuracies. And  
20 when we found that -- then at that point we determined  
21 that there is -- well, as long as there's a positive  
22 reserve margin left at the end of that, that means we  
23 have enough reserves accounting for the uncertainties  
24 to still leave you with a reserve margin.

25           And in essence what we did is that we took

1 that remaining amount, compared it to what the  
2 projected amount -- well, the difference is really the  
3 amount that you have to have in place to account for  
4 the uncertainties, and that's how the reserve margin  
5 came about.

6           And it was a number that started fairly low  
7 in the near term years, as you'd expect, because  
8 uncertainties are lessened in the early term, and it  
9 was like 6 to 7% in the near years. In the out years  
10 it grew to about 13%. But we decided to adopt a 15%,  
11 as I said, and we kept it for every year, even though  
12 our ability to forecast in the near term is better  
13 than the long term for simplicity and other reasons  
14 and for more conservatism.

15           So, really, I mean, I'm not sure that the  
16 spreadsheet was showing anything else than what I just  
17 went over, but that's really the method that we  
18 followed.

19           **MR. BALLINGER:** That's fine. I was just  
20 looking for a little explanation of how you got the  
21 number.

22           **MR. ADJEMIAN:** I hope I --

23           **MR. BALLINGER:** That's find. And the  
24 difference that the FRCC and Staff took on this -- and  
25 I think you mentioned this -- is the FRCC looked at,

1 I'll call it, a simple numerical average of error  
2 rates for these components, and Staff took for a  
3 probabilistic approach to those error rates looking  
4 basically at the same thing of what can you cover with  
5 contingencies.

6 Does that sound about right of where we --

7 **MR. ADJEMIAN:** Well, I guess I can make a  
8 comment on that. As Ken said, this is not something  
9 that we really studied very carefully -- I'm talking  
10 about the Staff's method -- and maybe we'll have ample  
11 time to look into it maybe next year or later this  
12 year.

13 But from the perspective of the way the  
14 Staff has analyzed it, we are looking at five data  
15 points, 1993 through 1997. And as I understand, the  
16 Staff did random draws of potential of 5,000 events  
17 occurring out of these five numbers.

18 You can create distributions from five  
19 numbers, and I'm just a little concerned that maybe  
20 reading too much into distribution projections out of  
21 just five numbers. It's not big a sample enough of a  
22 computation basis.

23 The second thing that I have a concern with  
24 is that, as I mentioned several times in my  
25 presentation, let's take one of the key variables,

1 which is generation availability. I mean, that -- you  
2 look back in five years -- and Ken mentioned this,  
3 too -- availability of generation has been improving,  
4 and there's a reason for it.

5           The reason has to do with the processes that  
6 companies have put into place to keep units available  
7 at time of peak. And when we do a random draw of  
8 data, we'd be picking maybe the first years of the --  
9 of my sample date, my sample database, availability of  
10 unit, which is something that happened maybe five  
11 years ago, unraveling all the systems that have been  
12 in place and all the processes that were put in place  
13 to keep generation on line and treating it as an  
14 random event.

15           It's not a random event. I happen to have  
16 with me, just to show how it's not random, a --  
17 (pause) -- this actually shows you how the  
18 generation -- this is the forced outage rate for  
19 generating units for the last five years.

20           I mean, it consists in a steady improvement.  
21 And for me to go back and say, now I'm going to do  
22 random picks here, and I'm going to pick the numbers  
23 that happened in '93-94, it's a little unlikely that  
24 will occur, because I have already put systems in  
25 place that will make sure that I'm going to get closer

1 to the events that occurred in the '94-95 -- or '95,  
2 '96, '97 time frame.

3           And so I don't view this as a random  
4 process. A random process would have numbers going up  
5 and down, and the Staff's method assumes that all  
6 these variables -- this is just one example. The load  
7 forecast, the same way -- are random. And they're  
8 just not random. There's human intervention that  
9 takes place and corrects conditions, and that's a key  
10 concern that I have with it, but we've not really  
11 spent too much time with it; and perhaps we can, like  
12 I said, or Ken said, we can work on it later.

13           **MR. BALLINGER:** I think I understand it.  
14 And I think what Staff was trying to do is just to  
15 show that probably neither method is perfect and may  
16 need some future work over the next year or two.

17           Both methods had their shortcomings. I  
18 think you pointed out one with the random numbers that  
19 may not recognize trends that are going on, whereas  
20 the FRCC method did not look at other concerns that  
21 could be like operating capabilities or some sort of  
22 distribution of events.

23           So I think it would be fair to say that both  
24 methods need some work, that we need to look at the  
25 coming years going on.

1           Do you know what the FRCC will do if the  
2 Peninsula does fall below 15% now that it's been  
3 established as a standard? And probably Ken should be  
4 the one to address that.

5           **MR. WILEY:** The standard that the executive  
6 board adopted this had week states that we will be  
7 reviewing this on an annual basis, and when we see any  
8 of our seasonal peaks fall below the 15% minimum  
9 standard, that we will make a thorough analysis of the  
10 facts concerning that, and we will make that review  
11 available to our executive board and to this  
12 Commission simultaneously to point out all the facts  
13 involving that.

14           And just to elaborate on -- which I know is  
15 going to be your next question, Tom -- is that the  
16 FRCC, it does not feel that it is in the position to  
17 go out and prescribe to whomever it feels might be  
18 deficient that it must build generation. It will be  
19 our job to point out where the deficiencies exist in  
20 the state, and then perhaps our board and this  
21 Commission will go from there.

22           **MR. BALLINGER:** Okay. I understand that,  
23 Ken. We've had this discussion before. While you're  
24 there, though, you mentioned something this morning  
25 about how you looked at other regions and that 15% was



1 used in other regions; and I'd like to explore a  
2 little bit with -- you mentioned ERCOT, which is  
3 basically Texas, I believe, uses a 15% reserve margin.  
4 But we're unsure how do they compare in terms of the  
5 FRCC as far as percent of nonfirm load as a reserve  
6 margin. Are they in a similar situation as the FRCC?

7 MR. WILEY: I don't know, but I doubt if  
8 they have as much nonfirm load in the reserves as we  
9 have.

10 MR. BALLINGER: Do you know if they're a  
11 winter or summer peaking system?

12 MR. WILEY: Tom, I don't know that. I feel  
13 that the summer peaking system that we're in right  
14 now -- or excuse me -- I feel that our summer peaks  
15 that we have are our most important peaks in terms of  
16 having reserve margins over them.

17 MR. BALLINGER: And I guess my question goes  
18 to maybe -- I don't know -- if they're a winter  
19 peaking system, they typically probably have more gas  
20 heat. I mean, they're probably a summer peaking  
21 system -- I'm sorry -- because they have winter --  
22 they have natural gas for heating for the winter,  
23 unlike Florida who has a limited amount, and we tend  
24 to see winter can sometimes exceed our summer peaks.

25 MR. WILEY: Yeah. And I must say we did not

1 go out and look at a rigid analysis of the three or  
2 four regions that still utilize this as a guideline,  
3 but -- because we were just interested, you know, has  
4 anybody pulled back from this. And I think that's  
5 where we were really coming from, and we haven't seen  
6 that there's been a great pullback from 15%.

7 Had there been -- you know, and everybody is  
8 using 20% or 25%, I think that would have influenced  
9 our decision a little bit, but -- so that's the kind  
10 of thing that we were looking at, not the micro  
11 details.

12 **MR. BALLINGER:** Okay. Back to Bobby. In  
13 the Staff's concerns in that one table that we  
14 submitted to everybody and passed around, the one  
15 concern was the percentage of nonfirm load that's the  
16 reserve margin in Peninsula. And I think currently  
17 we're looking at roughly 58% of our reserve margin in  
18 the winter is made up of nonfirm load.

19 Do you see that as a potential problem in  
20 the Peninsula? Or has it improved? Has it gotten  
21 worse over the past couple years? And when I say  
22 improved or gotten worse, have we had more generation  
23 as a percent of reserve margin?

24 **MR. ADJEMIAN:** Okay. Well, let me take the  
25 last one first. It's improved.

1           But back to some of the slides that we're  
2 showing. You'll remember that dispatchable DSM made  
3 up between three and 4,000 megawatts of total  
4 resource. In a pool of resources it's about 40-some  
5 thousand megawatts. I think it adds a nice diversity  
6 of resource.

7           It's obviously a pretty successful program,  
8 because customers elect to use it, and it has -- you  
9 know, from my personal experience, I think it has  
10 worked pretty well. I think we're learning how to use  
11 it still, perhaps, and it would probably be  
12 appropriate to ask some of the specific utilities the  
13 question as to how they've used it.

14           But is it too much in the pool of resources  
15 that we're dealing with, I'm not really sure that I  
16 can answer that. I do know that it's gotten better  
17 from last year. I mean, I don't think I would like to  
18 see reserves that more than 100% of your reserves  
19 consist of, let's say, nonfirm load. That may not be  
20 right. But is having a mix of generation and nonfirm  
21 load making part of your reserves as well as some  
22 other resources, I'm not sure that that's so bad.

23           **MR. BALLINGER:** Okay.

24           **MR. WILEY:** I would like to add to that just  
25 to say to say that obviously the events of June, which

1 this Commission has been getting into and will  
2 continue to look at, you know, is something that the  
3 FRCC is going to look at from a policy point of view  
4 just to see what implications that it might have on  
5 how we look at that. So, yes, we're going to be  
6 looking at that.

7 **MR. BALLINGER:** I think, Commissioner Clark,  
8 you had a question, or you looked like you wanted to  
9 jump in with a question. I'm not sure.

10 **COMMISSIONER CLARK:** Yes. I want to be  
11 clear. Where is there a showing of how much of  
12 reserve margin is dispatchable DSM? Which slide is  
13 that, or is it on a slide?

14 **MR. WILEY:** We did not have one.

15 **MR. ADJEMIAN:** It's not on a slide. It's in  
16 the load and resource report.

17 **MR. HAFF:** I thought you had a slide which  
18 showed the resources, dispatchable DSM resources.

19 **COMMISSIONER CLARK:** I was asking for what  
20 percentage of the reserve margin is -- did they make  
21 up for each year.

22 **MR. HAFF:** It varies by year, but in the  
23 early years it's about 50% summer, and it looks like  
24 about roughly 40% winter.

25 **COMMISSIONER CLARK:** Okay. But last year,

1 last ten-year site plan, wasn't there one year when it  
2 was 100% of it?

3 MR. HAFF: Yes; in the -- especially in the  
4 outer years when the utilities weren't planning as  
5 much generation as they have in this year's plan.

6 COMMISSIONER CLARK: And Florida is a winter  
7 peaking system; is that correct?

8 MR. BALLINGER: It vacillates back and  
9 forth.

10 COMMISSIONER CLARK: Okay. Thank you.

11 MR. BALLINGER: Bobby, one more question.  
12 and this wasn't touched on at all in your  
13 presentation.

14 At the August 25th workshop, Staff had a  
15 thing that we did a quick calculation about a  
16 recreation of the Christmas of '89 freeze to kind of  
17 get a feel for if certain events happened, you know,  
18 would we be worse or better off than we were in  
19 Christmas of '89.

20 Most of the parties here probably still have  
21 that. I've got extra copies if we go into detail. I  
22 wanted to ask you your opinion. Did what Staff did  
23 seem like a reasonable look at it that we may be the  
24 same, we might be worse off, we might be better?

25 MR. ADJEMIAN: Just to recap it, I think

1 what the Staff had looked at is taking almost like a  
2 back-cast; looked at the 1989 conditions and tried to  
3 apply the experience that we had in terms of load  
4 increase and generation unavailability to 1998 or '99  
5 conditions; and if I remember, it was 17% demand in  
6 excess of what was expected and 23% of generation  
7 unavailable.

8           And when you apply those two similar factors  
9 to 1980 -- I'm sorry -- 1998 conditions, we found  
10 that -- at least the analogy showed that the load  
11 interrupted -- I mean, a real worse condition.

12           However, the Staff, I felt appropriately,  
13 also went ahead and utilized an availability of  
14 generation reflecting closer to what has been the more  
15 recent history of availability of generation that  
16 we've talked already about a few times here. And  
17 under that condition, I think the finding was that it  
18 was going to be a better -- in the sense that not as  
19 much load was going to be disconnected as before.

20           So I think there's good reasons why we would  
21 want to utilize or consider the better availability of  
22 generation condition, as we said earlier.

23           In addition to that, there are some  
24 operational measures now, like scram load management,  
25 that was not in existence then that could be utilized

1 as well.

2 But generally I would say I think that was  
3 the finding of the Staff, and I don't disagree with  
4 it, and I don't think that I feel bad. I mean, it  
5 tells me that we're improved from then if that event  
6 were to occur again. How likely is it to occur, I'm  
7 not sure.

8 MR. BALLINGER: Okay. That concludes my  
9 questions for at least the FRCC. I've got one or two  
10 maybe after the FGT is done.

11 COMMISSIONER CLARK: I have a question. You  
12 said there are three regions that use the 15%?

13 MR. WILEY: Yes, ma'am.

14 COMMISSIONER CLARK: And then Texas used  
15 the -- uses the one day and 10 years LOLP; is that  
16 correct?

17 MR. WILEY: Texas, SERC and MAPP.

18 COMMISSIONER CLARK: Well, all right. SERC  
19 is --

20 MR. WILEY: -- or 15 --

21 COMMISSIONER CLARK: -- the southeast?

22 MR. WILEY: Southeast, yes.

23 COMMISSIONER CLARK: And MAPP --

24 MR. WILEY: -- is the --

25 COMMISSIONER CLARK: -- mid America?

1 MR. WILEY: Mid America. They all use 15%  
2 as one of their criteria guidelines, whatever you want  
3 to call it.

4 COMMISSIONER CLARK: I'm sorry.

5 MR. WILEY: 15 percent.

6 COMMISSIONER CLARK: Who uses the 15%?  
7 SERC, MAPP and --

8 MR. WILEY: MAPP and us -- oh, I'm sorry --  
9 ERCOT, which is Texas, and now us, which is FRCC.

10 COMMISSIONER CLARK: What do the others use?

11 MR. WILEY: The ECAR, which is, you know,  
12 the American Electric Power Area, and MAIN, they use  
13 loss of load probability, one day and 10 years, those  
14 two; and then the other ones are varied. NPCC uses  
15 loss of load probability, Bobby's --

16 COMMISSIONER CLARK: MDCC --

17 MR. WILEY: Yes -- Northeast Power &  
18 Coordinating Council; New England.

19 COMMISSIONER CLARK: Okay. What's ECAR?  
20 Where is that again?

21 MR. WILEY: East Central -- Ohio and that  
22 area. East Central -- something like that; Ohio and  
23 then that around it.

24 COMMISSIONER CLARK: Am I am mistaken, but  
25 it was in the MAPP area and ECAR area that there were



1 problems this summer with availability?

2 MR. WILEY: MAPP and MAIN had it, had the  
3 problems.

4 COMMISSIONER CLARK: Okay. MAIN is next to  
5 MAPP?

6 MR. WILEY: Yes, it is.

7 COMMISSIONER CLARK: And that's up in  
8 Wisconsin and --

9 MR. WILEY: Yes.

10 COMMISSIONER CLARK: And they had problems  
11 with meeting load during some peak periods, but I  
12 understand some transmission was down.

13 MR. WILEY: That was a combination of  
14 generation and transmission concerns. A lot of  
15 transmission problems constituted that.

16 COMMISSIONER CLARK: But our ten-year site  
17 plan doesn't deal with transmission problems other  
18 than the import capability; is that right?

19 MR. WILEY: That's correct.

20 COMMISSIONER CLARK: So we would not infer  
21 any concern that they're using the 15% or the one day  
22 in 10 LOLP? We wouldn't infer any concern that  
23 they've had problems this summer because it was  
24 compounded by the transmission?

25 MR. WILEY: I think there were compounding

1 factors in that, yes.

2 COMMISSIONER CLARK: Okay.

3 COMMISSIONER JACOBS: I have a question on  
4 that. It's my understanding -- and please correct me  
5 if I'm wrong -- that the compounding effect of the  
6 transmission restrictions occurred as attempts were  
7 made to overcome some of the nonfirm problems that  
8 they were having as the load restrictions became more  
9 clear.

10 In other words, as they began to see that  
11 some of the futures contracts were not going to be  
12 relied upon and people tried to go out and buy outside  
13 the region, that's when those transmission  
14 restrictions really began to become a factor? Is that  
15 true?

16 MR. WILEY: I do not recall all of the  
17 details of the problems up in Wisconsin, but my  
18 recollection -- if there's somebody here that would  
19 like to grab this, I'll be glad to -- Roberta or  
20 anybody -- but my recollection is that there was some  
21 generation capacity, there was some nuclear concerns  
22 up there, and that they caused a capacity shortfall,  
23 and then trying to get capacity into that region over  
24 the transmission system from other regions was where  
25 the transmission bottlenecks came in. So there was

1 perhaps -- it was a combination of those factors that  
2 caused the concerns up in that area.

3           **COMMISSIONER CLARK:** Commissioner Jacobs, I  
4 thought there was problems with a specific  
5 transmission line not being available, and then there  
6 were problems as far as identifying how much available  
7 transmission there was to import capacity; and I think  
8 they were unable to get capacity they thought they  
9 were going to get from the PJM area, which is  
10 Pennsylvania --

11           **UNIDENTIFIED SPEAKER:** That's the one  
12 that's --

13           **COMMISSIONER CLARK:** -- New Jersey. What I  
14 was asking about was I thought some specific  
15 transmission lines were just not available, that they  
16 were down.

17           **UNIDENTIFIED SPEAKER:** Do you recall that?

18           **MR. WILEY:** I believe it was a limit between  
19 that area and surrounding regions, Commissioner Clark.  
20 And I might add, in our analysis we've assumed for all  
21 these study purposes of zero assistance from --  
22 generation-wise from Southern.

23           And in terms of -- and within the region we  
24 run transmission studies to ensure that generation can  
25 flow around the state in case there is a large outage

1 one place, that there is transmission capability to  
2 come in and take care of that from other parts the  
3 state.

4 So intrastate we do run studies to ensure we  
5 have transmission capability to overcome that.

6 COMMISSIONER JACOBS: I note that you don't  
7 show any availability concerns surrounding the winter  
8 1999-2000 time frame. That's not a guarantee that  
9 none of the year 2000 type computer problems are going  
10 to have an impact, is there?

11 MR. WILEY: No, sir, Commissioner Jacobs.  
12 This does not have any implications on that question,  
13 and as you know, we're working very hard on that issue  
14 within the region with the national people and with  
15 your Staff on it. So this has no comments on Y2K  
16 involved in this particular study.

17 COMMISSIONER JACOBS: My concern is that I  
18 noticed that the demand over that time frame is a  
19 significant increase. That winter's demand appears to  
20 be one of the larger increases on the demand table.  
21 Do you follow me? On your --

22 MR. WILEY: I didn't realize it.

23 COMMISSIONER JACOBS: -- slide; the third  
24 slide. That span from 1999 to 2000 is one of your  
25 larger demand increases, winter demand increases. So

1 if there were some concerns to arise as resulting from  
2 that, what would be the impact?

3 MR. WILEY: Well, there's a lot of --

4 COMMISSIONER JACOBS: And I understand --

5 MR. WILEY: Yeah. I'm not really sure I  
6 know exactly what the answer is, but I think some of  
7 the concerns, to partially answer it, is that our  
8 industry is not going to be the only one that's  
9 impacted by Y2K if there's any real problems, and we  
10 just wonder if -- how much load is going to be out  
11 there, because you have air conditioners and a lot of  
12 large load consuming -- electrical consuming devices  
13 that also could experience Y2K.

14 So whether or not that demand is going  
15 appear as we forecast is probably a good Y2K question  
16 also. There's a lot of uncertainty surrounding that  
17 right now. I'm not sure how that answered your  
18 question.

19 MR. ADJEMIAN: Commissioner, as a  
20 clarification, I just put the slide up. I think  
21 you're referring to 1997, which is actual, to 1998  
22 change, not '99 change; right? I mean, 1997 is what  
23 actually we -- we had summer peak that exceeded the  
24 winter peak. So now we're forecasting that we're  
25 going to hit a new peak in the winter.

1           **COMMISSIONER JACOBS:** Correct.

2           **MR. ADJEMIAN:** And that's where you see the  
3 big change. It's the forecast which is actual --

4           **COMMISSIONER JACOBS:** I'm sorry. It's --

5           **MR. ADJEMIAN:** Year to year --

6           **COMMISSIONER JACOBS:** Wasn't the largest, it  
7 was the --

8           **MR. ADJEMIAN:** -- the change is about the --

9           **COMMISSIONER JACOBS:** -- second. So it will  
10 probably be one of the second largest. But I'm  
11 speaking of that -- the period where it goes from  
12 36 -- I can't quite -- 36, 4 something to 37, 3  
13 something, which that is -- as I look down the line  
14 from the other winter peaks, that is one of the more  
15 larger increases over that winter.

16           So my conclusion is that winter appears to  
17 be imposing a fairly significant surge in demand, and  
18 if there were unforeseen availability problems arising  
19 out of the year 2000 types of concerns, it would  
20 appear to me to present a particular critical  
21 situation.

22           And my only concern is -- and I'll take that  
23 a little further. In prior discussions that I've  
24 heard from people in Washington, particularly -- and  
25 this is very preliminary because I know NERC is coming

1 out with this, with its report sometime next week --  
2 but one of the contingency options that I've heard is  
3 that in an effort to forego major implications of the  
4 year 2000 problems, there will be a heavier reliance  
5 on analog type generating facilities.

6 And I know that -- I'm not asking you to  
7 comment on that, but if that were a real contingency  
8 procedure, that in my mind would even have a further  
9 restriction on available generation to meet what we're  
10 saying is a pretty important increase in demand over  
11 that time. And if I'm off base, I'd be very happy to  
12 hear how I'm off base.

13 MR. WILEY: I would say, given what you just  
14 said, then yes, you would want to be concerned. I  
15 guess I hadn't looked at that particular demand or  
16 made a distinction that that was a truly significant  
17 change in that particular year. But, you know, as you  
18 know on this year 2000 thing, we're still working on  
19 that. That's truly a work in progress for our  
20 industry, even though we've done a lot of work  
21 already. And I guess all I can say is that on some of  
22 these uncertainties, part of the plan that we're  
23 developing for year 2000 will include strategies to  
24 mitigate these things if, in fact, they happen.

25 And your discussion about analog generation

1 is running all that you have over those periods is  
2 probably going to be one of the mitigating strategies  
3 that we come up with when we develop it next year.

4           **COMMISSIONER DEASON:** I have a question.  
5 What caused the significant increase in the winter  
6 peak demand from '97 to '98, and is that something  
7 that could reoccur?

8           **MR. ADJEMIAN:** Commissioner, all that chart  
9 tells me is that we really didn't have a winter peak  
10 in 1997. It was a very mild winter. So the forecast,  
11 being the first year we still expect that given the  
12 right weather conditions, you could hit a peak of that  
13 magnitude.

14           In reality in the FRCC what we find is that  
15 summer is much more consistent in terms of growing,  
16 and winter has this errant shape to it that every  
17 couple of winters you hit a cold winter, and then you  
18 have two or three winters that are very mild; and '97  
19 happened to be one of those mild winters.

20           **UNIDENTIFIED SPEAKER:** Are those actual  
21 numbers?

22           **MR. ADJEMIAN:** Yeah, it's an actual number,  
23 right.

24           **COMMISSIONER DEASON:** Thank you.

25           **COMMISSIONER JACOBS:** A couple final



1 questions, one to kind of follow up on that second  
2 question I asked.

3           If you were to -- kind of hammering on this  
4 year 2000 issue -- if you were to go to the  
5 contingency of looking at analog generation, would  
6 that have an impact on your forced outage numbers? I  
7 guess that wouldn't be a forced outage, would it?  
8 That's a preferred, just a chosen --

9           **MR. WILEY:** I don't think it would. I mean,  
10 that would be for such a short period of time that  
11 we'd revert back to that older generation, that I  
12 don't think that would be a factor.

13           **COMMISSIONER JACOBS:** Okay. And then the  
14 last thing is not so much a question as a  
15 clarification. I'm looking at your reliability  
16 assessment, and it's the Load and Resource Plan, FRCC  
17 region summer of capacity and demand reserve margin.  
18 It's near the end of the report. It's a table. Are  
19 you familiar with it?

20           **MR. WILEY:** I'm going to get my copy.

21 (Pause)

22           **COMMISSIONER JACOBS:** This kind of goes back  
23 to a question that we were going over earlier about  
24 the nonfirm issue. And the clarification is, I'm  
25 wondering does this tell us, does this give us some

1 guidance on the answer that to that question about the  
2 percentages of nonfirm over a course of time?

3 MR. WILEY: I'm sorry, Commissioner Jacobs.  
4 What page were you on.

5 COMMISSIONER JACOBS: It's labeled Page 10,  
6 but I know it's not Page 10. It's near the end of the  
7 document. It's a table near the end of the document.  
8 It's called "1998 Load and Resource Plan, summer  
9 capacity demand and reserve margin at time of winter  
10 peak."

11 MR. WILEY: Okay. I have that now.

12 COMMISSIONER JACOBS: Goes back to the  
13 questions we were going over regarding firm and  
14 nonfirm. And at peak -- and I'm wondering; this  
15 appears to give us the reserve margins and it also  
16 appears to give us firm at peak, firm load at peak.

17 And the question I have is, can we derive  
18 from that the nonfirm, because it would appear that it  
19 would be easier to calculate that out of that; is that  
20 correct?

21 MR. WILEY: The nonfirm load?

22 COMMISSIONER JACOBS: I don't see a column  
23 on here, but I'm assuming I could go --

24 MR. WILEY: Yes, you can.

25 COMMISSIONER JACOBS: Just simply derive

1 this from that?

2 MR. WILEY: That's correct.

3 COMMISSIONER JACOBS: Okay.

4 MR. WILEY: If you take that column  
5 "megawatts" under that Column 10, the difference  
6 between that and the corresponding number in Column 7  
7 is the amount of interruptible and load management  
8 load that is available.

9 COMMISSIONER JACOBS: All right. Thank you.

10 MR. DAVIS: Can I ask my question now?

11 CHAIRMAN JOHNSON: Yes, sir. If you could  
12 state your name.

13 MR. DAVIS: Steve Davis from IMC-AGRICO.  
14 We're a large interruptible customer. I just wanted  
15 to see if I understand Page 17, the loss of load  
16 probability analysis, which I would basically consider  
17 to be a sensitivity analysis that was done.

18 Item 2(A) shows no violations without  
19 interruptible. Would I be correct in interpreting  
20 that to mean that when you ran your model, you showed  
21 that interruptible customers would never be  
22 interrupted if your model is performing correctly?

23 In light of our experiences this summer,  
24 we're very concerned with our reliability. We were  
25 interrupted approximately 10 times in June and twice

1 within the last two weeks.

2 MR. ADJEMIAN: I can answer how the LOLP  
3 study was done with regard to the interruptible, but I  
4 think you probably want to address that question to  
5 the utility that supplies you. FRCC has not looked at  
6 specific customers' patterns of interruptions.

7 But in this study we basically blocked, if  
8 you will, the use of interruptible and ran it that way  
9 to see whether the loss of load probability  
10 reliability criterion was going to be affected by not  
11 exercising it; and given the assumptions in the study,  
12 said that it would not be affected and it would meet  
13 the criteria. That's correct.

14 MR. DAVIS: So you're saying that if the --  
15 the model would say that interruptible customers would  
16 not be interrupted during the study period; is that  
17 correct? Because it's my understanding that the other  
18 demand side customers are exercised for load shedding  
19 first before interruptible on a normal situation.

20 MR. ADJEMIAN: I think that is a decision  
21 case by case by whatever utility you want to talk  
22 about. They may have a different procedure.

23 But I just wanted to clarify that it's not  
24 that the study says interruptible customers are not  
25 going to be interrupted. It's an assumption that we

1 made.

2 We forced the assumption, if customers were  
3 not to be interrupted, what effect would that have on  
4 reliability; and it tells us that it wouldn't have a  
5 negative -- a large enough negative effect. That's  
6 all it said. It's not that -- take away from this, so  
7 therefore interruptible customers are not going to be  
8 interrupted.

9 You know, given the assumption of the study,  
10 loads may exceed what we've assumed here, in which  
11 case companies may decide to exercise their option. I  
12 don't know if I've answered your question.

13 MR. DAVIS: Well, I guess maybe it's -- it's  
14 definitely a question, but it's also a statement. It  
15 seems to be inconsistent with the experiences we've  
16 had this summer and my understanding of basically how  
17 load shedding would work with interruptibles basically  
18 being among the last to come off line before firm  
19 customers.

20 So maybe there's not an answer, but I was  
21 hoping to get some comfort that in the future we  
22 wouldn't experience what we had experienced this  
23 summer.

24 COMMISSIONER CLARK: I would like to follow  
25 up on that. Does the one day and 10 years mean

1 accumulative amount of 24 hours in 10 years?

2           **MR. ADJEMIAN:** The one day and 10 years  
3 is -- first, we're not doing it on an hourly base,  
4 we're going to daily base it.

5           So we look at 365 peak days in a year, and  
6 we look at during the course of a year for each of  
7 those 365 days will we have enough generation during  
8 the peak of each day to meet that, and at the end of  
9 the year we calculate what the expected value of  
10 meeting that was. In other words, having every day  
11 generation to cover the peak load of the day.

12           And if that number in its sum for the year  
13 exceeds .1, then we have violated our criterion.  
14 That's all it is. And over a 10-year period you can  
15 call it one day in 10 years, but it's done on a  
16 year-by-year basis. It's not a one 10-year snapshot.

17           **COMMISSIONER CLARK:** Okay. So in one year,  
18 you won't have more than .1% interruptions?

19           **MR. ADJEMIAN:** It's .1 days.

20           **COMMISSIONER CLARK:** .1 days.

21           **MR. ADJEMIAN:** Not percent.

22           **COMMISSIONER CLARK:** So you could have  
23 several interruptions that don't amount to that  
24 amount?

25           **MR. ADJEMIAN:** That's correct.

1           **COMMISSIONER CLARK:** So even though it says  
2 "without interruptible," and it says, "no violations,"  
3 you could be interrupting interruptible customers for  
4 brief periods.

5           **MR. ADJEMIAN:** Yes, you could.

6           **COMMISSIONER CLARK:** But it wouldn't amount  
7 to --

8           **MR. ADJEMIAN:** It wouldn't be large enough  
9 that it would violate the criteria. Exactly.

10           **MR. DAVIS:** Well, I'd say we've been  
11 violating the criteria this summer.

12           **MR. BALLINGER:** Perhaps I can -- this ties  
13 into Staff's concern as to the LOLP values being so  
14 low due to the high availability of units.

15           If you look on Page 10 of the Load and  
16 Resource Plan, which shows reserve margin with and  
17 without nonfirm load basically, you'll see that in  
18 time of winter, if load management and interruptible  
19 load were not exercised, we have reserve margins of 3%  
20 in some years, but the LOLP still showed very reliable  
21 system. And that's what gave Staff -- it's not really  
22 concern, but it shows that reserve margin is what's  
23 driving the liability needs now of capacity, not LOLP.

24           So I think to say that because LOLP says  
25 there's no violations means there won't be any

1 interruptions, I don't think that's true. You have to  
2 look at reserve margin also, and that shows that we  
3 only have a 3% reserve margin to cover any  
4 contingencies that may happen; and that's why Staff  
5 was concerned that the LOLP values are nice, but  
6 they're not indicative of what's really driving the  
7 need for generation. It's reserve margin, and that's  
8 what we need to look at.

9           **COMMISSIONER CLARK:** Well, wait a minute.  
10 Tom, why do you say it's not really indicative of  
11 what's driving the reserve margin? You could decide  
12 that LOLP is the appropriate --

13           **MR. BALLINGER:** And I think it's because of  
14 this, because of the LOLP value in, let's say, the  
15 year 2000 might be .0006, very reliable, if you will,  
16 but then you look at reserve margin that corresponds  
17 to it, using nonfirm load you get to 15%.

18           If you didn't use nonfirm load, you'd only  
19 have 3%. So obviously they're going to be used as  
20 part of your reserve margin to cover contingencies.  
21 That's what our concern -- I mean, you went to --

22           **COMMISSIONER CLARK:** I see. You're going to  
23 be using lot of interruptible to meet your LOLP.

24           **MR. BALLINGER:** Yes.

25           **COMMISSIONER CLARK:** Okay.



1           **MR. BALLINGER:** And I think the study that  
2 Bobby did with not using nonfirm load at all just  
3 showed that the magnitude of it from LOLP perspective  
4 is not great.

5           From a reserve margin perspective, it's very  
6 great. And it's just saying that now we're in a  
7 different time period where reserve margin is what's  
8 driving the need to add capacity, not LOLP.

9           They still, I think, are both very important  
10 data to have. They tell you two different stories,  
11 but the leading one in today's day and age is reserve  
12 margin.

13           **MR. ADJEMIAN:** Just wanted to -- not  
14 anything that you've that said that I disagree with,  
15 but I think it just needs some additional to -- some  
16 additions to it.

17           For instance, we shouldn't be making the  
18 assumption that -- and I stated that in my  
19 presentation -- that all of the dispatchable DSM goes  
20 at once. I mean, there is in the residential load  
21 management we have different appliances. Many times  
22 we'll interrupt pool pumps and water heaters, and we  
23 get very beneficial megawatts out of that towards  
24 meeting demand; and customers don't even know this.

25           And to the extent that that can be done, it

1 doesn't mean that we will automatically go to the  
2 interruptible load and exercise it every time because  
3 this thing said there was only 3% of generation.

4           So just keep that in mind. I'm not saying  
5 we're not going to get to it, but I wouldn't  
6 necessarily pull away from that, that so -- every day,  
7 you know, so many times it's going to happen.

8           **MR. BALLINGER:** I think that's it. I think  
9 we can go on the with FGT presentation.

10           **MR. MYER:** Thank you. My name is Rockford  
11 Myer. I'm president of Florida Gas Transmission. I  
12 appreciate the opportunity to be here this morning.

13           I believe we handed out -- handed out a copy  
14 of our slide presentation. There's also a map in the  
15 back of that booklet which may be helpful to look at  
16 during some portions of the presentation.

17           The topics which I intend to cover this  
18 morning include gas supply availability on the Florida  
19 gas system, the expansion capability which we have,  
20 FGT system reliability, and enhancing system  
21 reliability after the incident which we had at  
22 Compressor Station 15 last month.

23           Looking first at gas supply on the Florida  
24 system, the Florida Gas Transmission system, if you  
25 look at the map, is strategically located. It extends

1 from Texas to the state of Florida and accesses  
2 significant gas supply on shore as well as offshore  
3 from the Gulf of Mexico. This diversity of supply is  
4 a significant benefit which our system offers to the  
5 Florida marketplace.

6 On shore we have direct connect access to  
7 gas supplies as well as interconnects with intrastate  
8 and interstate pipelines, including SONAT, Columbia  
9 Gulf, Texas, Eastern, Tennessee, ANR, Natural and  
10 others. It is even possible to access Canadian gas  
11 supplies through our interstate pipeline and  
12 interconnects, and that could be important, given the  
13 incremental Canadian gas supplies being brought into  
14 the United States.

15 We do have access to storage in all three  
16 zones on the Florida system in the most westerly zone.  
17 We have access to the Bamel Storage Field and the  
18 Spindletop Storage Field in Zone 2, which is in  
19 Louisiana. We have access to Napoleonville. And in  
20 Zone 3 in Alabama we have access to storage at Bay Gas  
21 Facilities.

22 The offshore gas supply, again, given the  
23 location of our pipeline as it extends from Texas to  
24 Florida, we have access to all of the -- essentially  
25 all of the prolific gas supplies which are being

1 produced in the Gulf of Mexico.

2 Estimates of total Gulf supplies range from  
3 155 TCF to 162 TCF, and production increases from  
4 5 TCF per year today to 6.8 TCF per year in the year  
5 2010, and 7.8 TCF per year in the year 2020.

6 We have major interconnects for offshore  
7 production with Mobile Bay at 320,000 a day; the new  
8 Destin pipeline interconnect, which went into service  
9 this summer, at 500,000 per day. We have an  
10 interconnect with the MAPP system in Texas at 220,000  
11 per day. We also have access to the Dauphin Island  
12 gathering system production behind or through the  
13 Mobile Bay pipeline system.

14 Overall, we have total receipt point  
15 capacity on the Florida system which exceeds 4.5 BCF  
16 per day.

17 Looking at the expansion capability which we  
18 have on the Florida gas system, given the  
19 infrastructure which we have in place, we're able to  
20 expand our system through the addition of pipeline  
21 looping of our existing system and with the addition  
22 of compression.

23 Comparatively, this is a very economical way  
24 to bring incremental gas capacity to the state of  
25 Florida and minimizes the impact on land use and the

1 impact on the environment.

2 We are also able to tailor the size of our  
3 expansions to meet market demands and timetables. For  
4 example, we can expand our system anywhere from 25 to  
5 50 to 100, 500,000 to a BCF a day. It just depends on  
6 market demand and what market timetables require.

7 We're currently negotiating with a number of  
8 customers in the Florida market for our proposed  
9 Phase IV expansion. We expect to file our application  
10 with the FERC by December of this year. We expect to  
11 have a certificate issued by the FERC within the next  
12 12 months after that filing; have the facilities  
13 available for testing in the fourth quarter of the  
14 year 2000, and in service in the second quarter of the  
15 year 2001, again depending upon market requirements.

16 Looking at system reliability, the incident  
17 at Compressor Station 15 notwithstanding, which I'll  
18 talk about in just a bit, we do have an excellent  
19 reliability record here on the Florida gas system.  
20 We've had only one other main line outage, and that  
21 was 1967 at a time when we had only one 24-inch line  
22 serving the state of Florida. We lost our main line  
23 after it was hit by a third-party contractor, and the  
24 line was repaired and placed back into service in 16  
25 hours.

1           If you look at the map that we have, you can  
2 see that essentially we have two pipelines which run  
3 from western Louisiana to Miami, Florida, and in many  
4 areas we have three pipelines. With the addition of  
5 our Phase III expansion in 1995, we built our 36-inch  
6 line from Citronelle, Alabama, to Tampa, Florida, and  
7 the 36-inch line also runs intermittently westward to  
8 Louisiana and intermittently again as far southward as  
9 West Palm Beach.

10           Of the over 4,800 miles of pipeline which we  
11 have, over 90% of that pipeline is buried. At the  
12 compressor stations, we have multiple compressors, and  
13 what this does is allow us to take compressors in and  
14 out of service as needed for maintenance or down time  
15 without affecting our ability to meet market load  
16 requirements.

17           Again, if you look at the map, you'll see  
18 that the -- will look at the design of the FGT system  
19 in Florida which provides a market area grid which,  
20 again, increases our overall system reliability. The  
21 30-inch west leg, which was installed as a part of our  
22 Phase III expansion project, provides a separate route  
23 to central Florida as an alternative to the two main  
24 lines which run through the center of the Florida  
25 Peninsula. That's the green area noted on the map,

1 the North Central Florida network.

2 We also have three other smaller market area  
3 grade -- grids which improve reliability in the  
4 marketplace; the Gainesville/Ocala grid, the  
5 Orlando/Cape Canaveral/Melbourne grid, which is light  
6 blue, and the Southwest Polk grid, which is noted in  
7 purple. Again, what these do is provide alternative  
8 delivery routes in the marketplace in the event that  
9 we do an have an emergency or an incident on one of  
10 these lines.

11 We do have 1.7 BCF of line pack, which is in  
12 the market area here in Florida, which is available in  
13 the event of an outage or loss of capacity. I think  
14 as was demonstrated during the Compressor Station 15  
15 outage, we do have strategically located inventory in  
16 the event of an outage.

17 We have the capability, with our own special  
18 response teams and with our relationships with our  
19 contractors, to quickly bring our system back on line  
20 in the event of an outage. At Station 15 we had 55%  
21 of our capacity back in service within 48 hours. We  
22 had 82% of that capacity within 72 hours, and 90% of  
23 the capacity was back within 96 hours, and we were  
24 able to continue to serve our priority end use  
25 customers, gas customers, in the state of Florida from

1 line pack during this outage period.

2           The primary exposure which we have to  
3 hurricanes on the Florida system is really in our gas  
4 control and scheduling groups back in Houston with a  
5 loss of power, people unable to get to work, that sort  
6 of thing. However, we have the capability to move our  
7 gas control and scheduling groups to Omaha, Nebraska.  
8 We can do that on a 24-hour notice basis. That system  
9 is in place and tested, and essentially is transparent  
10 to our customers as they schedule their gas to move to  
11 the marketplace.

12           With respect to the incident at Station 15,  
13 in spite of the reliability which we have built into  
14 the Florida system today, we did experience what we  
15 believe was an unprecedented incident, not only on  
16 FGT, but in the industry. We take very seriously our  
17 commitment to provide gas supply to the state of  
18 Florida, and what we are doing is learning from that  
19 incident at Station 15. We are taking steps at this  
20 time to significantly improve the reliability of our  
21 service to Florida, and we'll talk about those next.

22           Immediately after the incident at 15, we  
23 commenced an inspection and assessment of all of our  
24 emergency shutdown and mainline valves to assure  
25 proper operation. We're looking at the configuration



1 and design and location of those valves on our system.

2           Since it appears that lightning was the  
3 precipitating cause of the incident at Compressor  
4 Station 15, and we recently had an incident at Station  
5 20 related to lightning, we have commenced a major  
6 effort to review our lightning protection procedures  
7 on the system. We have subscribed to the services of  
8 a firm which is able to notify us in the event of  
9 approaching lightning storms to our critical  
10 locations.

11           At that time if we do not have operations  
12 personnel on site, we're going to dispatch operations  
13 personnel to the location. We're going to place the  
14 compressor station on manual operation, although our  
15 emergency shutdown facilities will remain in place.  
16 What this will do is eliminate the possibility of a  
17 lightning strike which will disable our electronic  
18 instrumentation causing a shutdown of the compressor  
19 station and a potential lightning strike of the gas  
20 related to that emergency shutdown.

21           We've retained two firms who specialize --  
22 two firms from Florida who specialize in protecting  
23 facilities from damages caused by lightning. They are  
24 conducting an independent review of all of our  
25 critical locations in the state of Florida and across

1 the Gulf to look at our lightning protection  
2 procedures in place.

3           We're consulting with electric generators  
4 here the state of Florida for their expertise in  
5 lightning protection. We've retained the services of  
6 a lightning scientist from here in Florida to help us  
7 to devise a final action plan to protect our  
8 facilities from significant damage associated with  
9 lightning. That group met this week in Florida for  
10 three days, and they're in the process of putting  
11 together our action plan in response to lightning  
12 protection on the Florida system.

13           The second major effort which we are  
14 pursuing in response to the incident at 15 is an  
15 in-depth review of our pipeline system and compressor  
16 stations. We've retained the services of an  
17 independent engineering firm to conduct a review of  
18 our system drawings and to conduct on-site inspections  
19 of our system.

20           Among the things we're looking at, we're  
21 looking at facilities which should perhaps be  
22 physically separated. We're looking at all of our  
23 bypass capabilities at our facilities. We're looking  
24 at sequential failure possibilities and remedies.  
25 We're looking at the location and operation of valves

1 in the station yards. We're reviewing our most  
2 critical locations first, and we expect to begin  
3 devising our final action plan for those locations on  
4 November 1.

5           The remainder of the facilities, we expect  
6 to commence work on devising our action plan for those  
7 facilities on December 1 of this year. To the extent  
8 that we see situations which require immediate action  
9 as we're going through this process, we'll take those  
10 actions as required.

11           We have what we call a LIC computer software  
12 model which gives us the ability to see the operation  
13 of our pipeline system on a realtime basis. What  
14 we're doing is completing a study right now to  
15 determine where we can place additional sensors on the  
16 system in order to more quickly detect pressure drops  
17 along the pipeline, and what that will do is give us  
18 the capability to more quickly react in the event that  
19 there is an incident out there on the pipeline system.

20           We are strengthening our inventory to assure  
21 continued quick response in the event of an emergency.  
22 And finally, not unlike other industries, both in the  
23 gas industry and the power industry and across the  
24 nation, we're in the midst of an aggressive Y2K  
25 compliance program, including the coordination of that

1 program with our producers and with our customers here  
2 in the market area.

3           To conclude, the FGT system is strategically  
4 located to access both onshore and offshore gas  
5 supplies, including expanding access to storage. We  
6 have the capability to quickly and economically expand  
7 our system to meet market demand as it arises. We  
8 have an excellent reliability record, but we are  
9 determined to significantly enhance that reliability  
10 through better lightning protection procedures and  
11 through improvements in the design of the critical  
12 points on our pipeline system.

13           **MR. TRAPP:** Mr. Myer, Hi. I'm Bob Trapp  
14 with the Public Service Commission Staff.

15           Having had the privilege of serving in the  
16 emergency operating center during the weekend of the  
17 Station 15 incident, I personally would like to thank  
18 you for the company's efforts to restore that line in  
19 the quick and efficient manner that you did, and also  
20 to thank you for the cooperation and communications  
21 with the emergency operating people. I think it was  
22 essential that we stayed right on top of that, and you  
23 helped very much in doing that.

24           I only have one question, if I could. In  
25 these studies that you're doing with respect to

1 enhancing the reliability of the pipeline or  
2 evaluating that, I'm given to understand that the FRCC  
3 will be participating, or at least monitoring that or  
4 have a member participating. And my question is,  
5 would there be any problem with perhaps a member of  
6 the Public Service Commission Staff monitoring those  
7 activities?

8           **MR. MYER:** No. I think as we develop -- as  
9 we do the study of our system and develop our plan to  
10 enhance the reliability of the Florida system, I think  
11 it would be most appropriate for us to share with not  
12 only the FRCC, but the PSC, how we are improving  
13 reliability; because, again, we take our  
14 responsibility very seriously and want to assure the  
15 PSC and the customers in the state of Florida that we  
16 will have the capability to reliably meet their gas  
17 supply needs today and into the future.

18           **MR. TRAPP:** Thank you.

19           **MR. BALLINGER:** Hello, Mr. Myer. My name is  
20 Tom Ballinger with the Staff. I have a question. I  
21 don't know if it would be more appropriate for you or  
22 for Mr. Adjemian, but it goes to the response that FGT  
23 gave to the FRCC about the ability to supply gas to  
24 the Peninsular expansion needs.

25           In other words, the FRCC submitted saying,

1 we're planning on building so many megawatts of gas  
2 capacity, can you meet these needs. The response back  
3 was that the incremental gas required to serve  
4 Florida's needs was about 550 BCF a day incrementally,  
5 which the FGT said could be done through compression;  
6 in other words, that could be done in a short time  
7 line and be able to meet the needs of this installed  
8 generation capacity.

9           What my concern was, though, is buried in  
10 that was the assumption that some of the already  
11 committed gas to existing units that may be less  
12 efficient than new generation capacity would be  
13 diverted to the new generation capacity to conserve  
14 their load. That's how the 550 number was developed.

15           And my question is, the FGT did not look at  
16 the economics of doing that. That would be an  
17 individual utility decision obviously. But does that  
18 lend itself to -- I don't want to say racing to get  
19 gas, because you will get the -- I'll call it the  
20 "compression transportation rate" as opposed to "if a  
21 new line has to be installed" transportation rate.

22           That was a pretty long-winded question, but  
23 that's my basic concern that the assumption of  
24 diverting existing gas to new units creates an  
25 economic question to be addressed by individual

1 utilities, and are we setting up a race to gas.

2 MR. ADJEMIAN: Let me see if I can address  
3 that, Tom. The FGT at our request, at the study  
4 group's request of the FRCC, gave us what I would  
5 consider a way of meeting the generation expansion  
6 needs of the FRCC.

7 As you stated, economics really didn't play  
8 any role in it, and it may be that it makes more sense  
9 for us to retain some of the gas -- or individual  
10 utilities, I should say -- to retain the gas for dual  
11 fuel units and not divert all to new combined cycles.  
12 But, I mean, those decisions will be done, I think, on  
13 a case-by-case basis, on a bilateral basis probably  
14 between the utility and the FGT or whoever, if you can  
15 provide transportation needs for the companies.

16 So, again, I think the FGT basically  
17 provided us with, if you will, a feasibility answer  
18 that yes, what you need can be done, provided you take  
19 all these other steps; and it could be done primarily  
20 through compression. But, you know, that's not  
21 necessarily the specific plan that would actually  
22 develop when companies sit down and lay out their  
23 individual needs before the FGT or whoever else they  
24 work with, and what the final expansion is could be a  
25 combination of compression and new pipelines.

1 I'm not sure if I'm answering your question,  
2 but, I mean, is there going to be a rush to gas, I  
3 don't really know how to address that.

4 MR. BALLINGER: Maybe not a rush to gas, but  
5 the first signatories to gas who fill up the 550 that  
6 can be done through compression may get it a little  
7 cheaper than the last 450 who have to get it with a  
8 new pipeline or -- it's going to go on a piecemeal  
9 fashion, and as we approach the limit of compression,  
10 a new pipeline may have to be built, and it may change  
11 the economics, or affect the economics.

12 MR. ADJEMIAN: I'm not an expert on tariff  
13 matters for pipelines.

14 MR. MYER: I think clearly there's a very  
15 real built-in advantage today in the Florida system in  
16 that we're able to add capacity through compression  
17 and/or looping, and that's very economical as compared  
18 to building a brand new pipeline into the whole  
19 system, and there is some fairly significant  
20 capabilities still within the Florida system.

21 I think at some point -- and I'm not an  
22 engineer -- at some point it may become -- that  
23 capacity that -- the incremental capacity may become  
24 more expensive than the existing capacity today, or  
25 these incremental -- this incremental capacity which



1 is built today; but where that point is I can't tell  
2 you.

3 I guess we could do a study, and if you look  
4 at particulars on what kind of load over what time  
5 frame you would add and how we would meet that load --  
6 and, of course, it depends on location to a certain  
7 degree, as well.

8 But I think you're right. At some point  
9 down the road you may end up in that situation where  
10 the incremental capacity is more expensive than what  
11 we had today, but where that point is, I can't tell  
12 you right now, although we could certainly get back to  
13 you with that answer.

14 MR. BALLINGER: No. That won't be  
15 necessary. I just wanted to make sure I understood  
16 what potentially could be out there. Thank you.

17 I guess with this, we're done with the FRCC  
18 presentation. And I know the agenda shows Staff  
19 giving a brief presentation about that, but we had a  
20 request from Mr. McWhirter, who needs to catch a  
21 plane. He has a very short presentation he'd like to  
22 make, and then we will go on to Staff's presentation,  
23 individual utilities.

24 Commissioners, I don't know if you want to  
25 entertain a half-hour lunch after Mr. McWhirter.

1 (Discussion off the record.)

2 MR. BALLINGER: Okay, Mr. McWhirter; I guess  
3 you're on.

4 MR. McWHIRTER: This is a wonderful machine.  
5 I'm not sure I can figure it out. My name is John  
6 McWhirter, and I represent nonfirm industrial  
7 customers.

8 You've heard a generic presentation from the  
9 utilities' viewpoint. Well, I'm going to give you  
10 somewhat of a generic presentation from the consumers'  
11 side of the issue; and of course I don't represent all  
12 consumers, only a limited number, but there are  
13 consumers who are quite concerned about the  
14 circumstances.

15 Quickly I'm going to tell you where we are  
16 today, briefly how we got there and, three, I'm going  
17 to be presumptuous enough to recommend to you some  
18 governmental policies that might be worthy of  
19 consideration.

20 Where we are today is demonstrated on this  
21 page that has already been discussed previously, and  
22 this is extracted from the FRCC report, and that page  
23 is summer demand. I'm going to go down to winter  
24 demand where Staff says the crisis is potentially the  
25 greatest.

1           If you will look at Column 11, Column 11 is  
2 the presentation that was made by FRCC which indicates  
3 using a 15% reserve margin, that everything is  
4 hunky-dory for the next nine years. However, if you  
5 look at Column 9 and you look at the percentage of  
6 peak that is met by the installed capacity of the  
7 utilities, you'll see that it comes nowhere near the  
8 15% reserve margin.

9           And the difference, as has already been  
10 pointed out to you, is the fact that load management  
11 and interruptible customers who are nonfirm load  
12 management customers now become part of the reserve  
13 load margin.

14           There has been a very significant change in  
15 the last six or seven years of the definition of  
16 reserve margin. The people who were served from the  
17 reserve margin previously, which was machinery, have  
18 now become the reserve margin.

19           As is pointed out, we're up to 58% of the  
20 utilities' reserve margin is met now by people rather  
21 than by machines. That is not the deal that was  
22 entered into at the time that the nonfirm customers  
23 signed up.

24           The second question is -- well, there's  
25 another little problem in the first thing. This

1 reserve margin, even if we're dealing with the  
2 availability of machines which is the 2, 5, 3, 6, 7%  
3 in Column 8, those machines to get those numbers, you  
4 were told by the previous presentation, that the  
5 machines are going to be operating better in the  
6 future than they have operated in the past. That's an  
7 interesting proposition.

8           The machines today that are meeting that  
9 reserve margin are approaching the final trimester of  
10 their life. They're 25, 23, 28 years old. They're  
11 nuclear plants that are coming up for relicensing, and  
12 those machines are expected to operate at a 92 or 93%  
13 operating capacity, which is most intriguing when you  
14 realize that you presently pay a reward to utilities  
15 which operate their base load units at somewhere  
16 around a 75% operating capacity factor.

17           So I would suggest to you that you might  
18 want to carefully examine the idea that the older  
19 machines are going to be operating more efficiently in  
20 the future during the last trimester of their life  
21 than they operated heretofore.

22           How did we get into a circumstance in which  
23 people rather than machine became the reserve margin?  
24 This subject is actually -- I think, would be an  
25 interesting topic for a doctoral thesis, and I won't

1 present the full thesis with you today, but there are  
2 several basic underlying factors, and I'll give you a  
3 few of them.

4           One is that larger power plants were built  
5 to gain economies of scale, and when they go off line,  
6 you've got a more serious problem than if you had four  
7 or five generating plants meeting the demand of what  
8 an 800-megawatt plant meets today.

9           Secondly, most of the coal and nuclear  
10 plants are aging, as I've mentioned before. Third,  
11 the investor-owned utilities have forestalled  
12 construction of new power plants by municipal  
13 utilities and REAs. Once the wholesale market became  
14 competitive, they can go in and bid to supply power to  
15 those municipalities and REAs at a cost less than  
16 those people would pay to build their own plant.

17           There was a disincentive for them to build  
18 new plants because it was met by wholesale sales from  
19 the retail plants that were needed for the retail  
20 sector. These contracts with the wholesale customers  
21 have become firm contracts, and they come ahead even  
22 of a utility's firm customers.

23           Those are some of the reasons. Probably the  
24 biggest reason that people instead of machines have  
25 become the reserve margin is the conservation programs

1 that have been endorsed by this Commission, and the  
2 biggest conservation program of all, of all the  
3 utilities in Peninsular Florida, is the demand side  
4 management program called Load Management in which  
5 people are paid money that's collected from them and  
6 other customers in order to be interrupted during  
7 times of critical times.

8           And, as has been pointed out, if you're only  
9 cutting off your pool pump and you're cutting off  
10 somebody's water heater, there's no really loss in  
11 sales to the utility, and the customer shouldn't feel  
12 it. But I think in your further studies you're going  
13 to find that maybe the customers this summer felt it a  
14 little bit more than usual and may in the future  
15 summers face it more even more seriously.

16           The Staff has concluded that we don't have a  
17 problem in the summertime, the problem lies in the  
18 wintertime; but the records demonstrate that in the  
19 month of June of this year, Florida Power Corporation  
20 was unable to meet its nonfirm load 11 of 30 days. 11  
21 of 30 days it was not able to meet it. On three of  
22 those days it was able to meet it by purchasing power.  
23 On the other eight days the customers were  
24 interrupted.

25           The interruptions in the summer are not

1 peaking interruptions that occur for a short period of  
2 time and can -- or at least the peak is not composed  
3 of a short term where plants can be run harder for a  
4 short period of time in excess of their installed  
5 capacity. They run for 20 and 30 hours at a time,  
6 which puts a real strain on older units.

7           So we think we have a problem. I have a  
8 client that's in the mining industry, and I pointed  
9 out some of these things to him, and he said, my God,  
10 we are the canary that's going into the mine. And  
11 when something is happening to the interruptible and  
12 the load management customers, it's kind of like the  
13 canary beginning to flutter and gag.

14           And Mr. Davis explained to you what's  
15 happened to his company this summer, and I've just  
16 pointed out to you --

17           **COMMISSIONER GARCIA:** Mr. McWhirter, I  
18 thought the canary began to sing in a mine when there  
19 was a problem.

20           **MR. McWHIRTER:** Say that again.

21           **COMMISSIONER GARCIA:** I thought the canary  
22 began to sing in a mine when there was a problem, not  
23 gag.

24           **MR. McWHIRTER:** Well, it's a --

25           **COMMISSIONER GARCIA:** I was -- I thought you

1 were the canary. That was -- that you were here  
2 singing the problems that your client is having.

3 MR. McWHIRTER: Well, I am the singing  
4 canary, but the other canary is dying.

5 So what do you do about all of this? And  
6 from a customer's viewpoint -- and you have the very  
7 difficult assignment of trying to protect utilities as  
8 well as protect the customers and trying to draw a  
9 bright line to protect both of those interests, and  
10 the consumers' interest is somewhat different.

11 We're interested in reliable service, and  
12 we're interested in economically priced service; and  
13 I'm up here all the time crying about economics, not  
14 so much about reliability.

15 But I would suggest to you a short 11-point  
16 program that you might consider. First is to  
17 encourage independent power producers to come into the  
18 state of Florida and build plants, because that power  
19 doesn't go into the rate base; and if they're not  
20 technically more proficient than the other plants,  
21 then their power isn't sold.

22 Secondly, and I think this is something you  
23 should do immediately, is to ensure that economic  
24 interruptions don't occur. Now, last summer in  
25 Wisconsin people were paying \$7,500 a megawatt for



1 power.

2           The price for firm industrial power in the  
3 state of Florida is somewhere in the range of 45 to  
4 \$50 a megawatt hour. So there would be a great  
5 incentive for a utility, if it could, to sell to that  
6 higher priced market. You want to be sure, I would  
7 think, as regulators, that utilities don't take  
8 advantage of that circumstance.

9           I would think that another big aspect is  
10 Florida is known throughout the nation as a sunshine  
11 state, not only from its sun, but from the open  
12 government. And I would suggest to you that the  
13 Florida Reliability Coordinating Council is an  
14 excellent organization. Obviously its reports are  
15 truthful. And that organization, however, is composed  
16 primarily of utilities.

17           Their operations are not open to the public,  
18 and I would suggest to you that you require, since  
19 it's a matter of such great public interest, that they  
20 give notice to their meetings and that the public be  
21 given the opportunity to attend those meetings. I  
22 can't see any legitimate reason why that couldn't  
23 happen.

24           I would also suggest to you that the  
25 opportunity is there with the Internet that we have

1 today for a bulletin board, a bulletin board that  
2 would demonstrate the cost of power and the available  
3 reliable capacity that's in the state; where it is and  
4 what it costs. That would be a very interesting thing  
5 to track.

6 Today if a customer is given an opportunity  
7 to buy through rather than be interrupted, he doesn't  
8 know what that price is going to be and doesn't get  
9 the bill for two or three months later after all the  
10 accounting is done. If we could look on the Internet  
11 and make that choice, perhaps we wouldn't do the  
12 buy-through.

13 I know that you have statutory  
14 responsibility over the transmission grid. FERC is  
15 exercising ratemaking authority over it, but I would  
16 suggest to you that as part of the your operations,  
17 you should study the capabilities of our state's  
18 transmission grid and whether improvements need to be  
19 done.

20 I would strongly recommend to you that you  
21 ensure that the power plants siting act is not  
22 utilized to create a closed shop to keep  
23 technologically superior and more economical power  
24 plants from being built in the state.

25 I would recommend to you, number 8, that you

1 promote local land use and zoning which favors  
2 distributive generation. Distributive generation is  
3 on the horizon and may be the answer to some  
4 commercial and even residential people that would like  
5 to get the benefit of it. It would enhance green  
6 power.

7 I would suggest to you that you don't load  
8 obsolete high heat rate plants with additional costly  
9 improvements that will create stranded investment.

10 With respect to the customers who have to  
11 buy through from time to time, their agent for the  
12 purchase power is the utility company. If the utility  
13 is not obligated to serve those customers, it would  
14 seem to me that it would follow that those customers  
15 should have had the opportunity to select the persons  
16 from whom they're going to buy their buy-through power  
17 to see if they can't get a better price; permit  
18 customers to engage in hedge contracts to purchase  
19 power when utilities can't serve them, irrespective of  
20 the source.

21 And finally and most importantly, I would  
22 recommend to you that you do exactly what you're doing  
23 today, and that is try to deal with this problem  
24 before a serious crisis arises. Deal with it now in a  
25 logical methodical and appropriate way. Give

1 publicity to the problem. Invite university type  
2 people to participate in the discussion. Invite the  
3 environmentalists to participate in the discussion in  
4 a colloquial group so that we can come up with good  
5 solutions for the state before we have to deal with a  
6 serious dramatic problem that price is not a problem,  
7 only reliability.

8 Thank you for letting me interrupt your  
9 scheduled agenda to present a stumbling presentation  
10 on behalf of consumers.

11 CHAIRMAN JOHNSON: We're going to take a  
12 short break, a 15-minute break.

13 (Brief recess.)

14 CHAIRMAN JOHNSON: If everyone could settle  
15 in, we're going to go back on the record. Staff, I  
16 believe we're ready for the next presentation.

17 MR. BALLINGER: Mr. Dudley is going to give  
18 a presentation.

19 MR. DUDLEY: My name is Kenneth Dudley. I'm  
20 with the Commission Staff. This has been talked about  
21 pretty extensively and prerebutted, so maybe I can get  
22 through this a little bit quicker than I had  
23 originally anticipated.

24 The reason for this is merely to present an  
25 alternative view of looking at reserve margin

1 calculations. So far in the past we've done a  
2 traditional method. The PRCC has shown us another  
3 method in which they have accounted for some of the  
4 historical errors. We took another viewpoint and  
5 entered in some probability into that calculation, and  
6 I'll go through each of these fairly quickly.

7           Mr. Adjemian described the reserve, the  
8 fundamentals of reserve capacity, and that being the  
9 amount that your capacity of resources exceeds your  
10 firm load. The mechanics of that is that you have  
11 these five variables, which are generation import, the  
12 QF, which makes up your capacity resource; and each of  
13 those is used to serve your peak load, which is  
14 further -- which is reduced any direct load control  
15 which you may have, such as load management.

16           A concern with some of this -- with reserve  
17 margin calculation is that each of these five  
18 variables are assumed to be forecasted with 100%  
19 accuracy. The theory is that in any particular  
20 circumstance or an event -- were an event to occur,  
21 that the reserve margin would be large enough in order  
22 to keep the lights going.

23           To address the concern of this 100%  
24 forecasted accuracy, the PRCC undertook an analysis  
25 which Mr. Adjemian and Mr. Wiley discussed earlier

1 this morning in which they took and looked back at the  
2 historical forecast error in each of the five reserve  
3 margin components, and took an average of those and  
4 incorporated that into the reserve margin calculation.

5           The Staff, we took -- and instead of looking  
6 at the viewpoint of FRCC on taking the average, we  
7 decided that within the data range, that we would  
8 allow any error within that time frame to occur and  
9 not merely take the average of that.

10           This is just a sample here of the FRCC  
11 method that Mr. Adjemian presented earlier this  
12 morning, and it just shows that the top table -- this  
13 is a smaller sample than the total state -- but for  
14 the utilities' forecasted generation levels, you would  
15 take and make a comparison of what the utility had  
16 forecasted to occur versus what actually -- the  
17 generation that was actually available, and then you  
18 would take that number for each of the five years and  
19 obtain an average at the end of that, obtain an  
20 average for those five years.

21           You take then and sum those -- in this  
22 instance, the column on the far right -- and then you  
23 would compare that with the projected total, and in  
24 making that comparison you would determine that there  
25 was a certainty factor or uncertainty factor -- I

1 think I may have printed the wrong slides here -- that  
2 you would take to reduce each of the components or  
3 increase each of the components.

4           It's hard to see here. But for this  
5 particular instance where you have a forecasted  
6 generation of 38,000 megawatts, once you incorporate  
7 your historical errors in your generation availability  
8 forecast, you would reduce that to a level that is  
9 only 92.6% of what you had forecasted, and that should  
10 allow to you account for any -- that would account for  
11 the historical error you've seen over the past  
12 five-year period.

13           And you make a similar calculation for the  
14 remaining variables to then take and arrive at an  
15 adjusted reserve margin, whereas if you recall in the  
16 first slide, without taking any historical  
17 uncertainties into account, you would think for that  
18 year you may have a 20% reserve margin, but then after  
19 accounting for this five-year average historical  
20 uncertainties, that 20% may reduce down to a little  
21 less than 7%.

22           The PSC method -- or I guess more so the  
23 Division of Electric and Gas method -- we took the  
24 same fundamental data that the FRCC used, and instead  
25 of taking and looking at each of the five years and

1 arriving at an average, we said that for -- in the  
2 instance we have in the top table of generation, we  
3 would say that we'll do one calculation and allow that  
4 calculation to assume that FPL's 1993 error may occur,  
5 and then for the next utility, Power Corp, it may be  
6 their 1995 error, and JEA could be '94 or '96; TECO  
7 and Tallahassee may be different years.

8           So instead of taking a mere average of each  
9 of the five years and summing that amount, we will  
10 take and randomly select any particular year's error  
11 for each utility and sum that amount. In this  
12 instance it was 3,500 megawatts. And then just like  
13 the FRCC, we would take and incorporate that into the  
14 reserve margin calculation, whereby a generation of  
15 38,000 instead of reducing that down to a 90-some odd  
16 percent level, we reduced it by 3,589 megawatts. And  
17 you make a similar calculation for each of the  
18 remaining variables; the imports, QF, peak load and  
19 load management.

20           And you see that for this particular run,  
21 the reserve margin level, which initially started at  
22 20%, and then using an average method may have been a  
23 little less than 7%, well, now under this method for  
24 this particular run, the reserve margin may be  
25 determined to be 5.3%.



1           This is really hard to see. (Indicating)  
2 But in order to remove any bias or to try and avoid  
3 distorting any of the results, we wanted to make a  
4 sufficient number of calculations because of the  
5 probability that for that particular run you may have  
6 actually selected some of the best or perhaps even  
7 some of the worst errors for each utility in any  
8 particular year. So we performed the calculations  
9 5,000 times, and it provides a distribution very  
10 similar to the one shown here in which we plotted the  
11 particular reserve margin levels according to the  
12 frequency of occurrence.

13           And what was important to us, by looking at  
14 this graph, was that as you can see on your handouts,  
15 there is a portion that lies less than zero. And less  
16 than zero in this instance indicates that you would  
17 have inadequate reserve to serve your load, and as you  
18 can see in the top right-hand corner, there was -- for  
19 this particular year there was 400 occurrences, which  
20 in looking at the area under the curve less than zero,  
21 that may have equated to roughly 900 megawatts of  
22 capacity shortfalls.

23           We made these calculations for each of the  
24 seasonal periods, both the winter and the summer, for  
25 each of the years covered within the 1998 ten-year

1 site plan. And here I show a table comparing the  
2 original reserve margins projected in the 1998 site  
3 plans, as well as the FRCC results, after accounting  
4 for the averages of the historical uncertainties, and  
5 compare those with the results that the Staff obtained  
6 by using the probabilistic method.

7           And overall for the summer period, there was  
8 very little concern with respect to shortfalls, even  
9 using the FPSC probabilistic method and, in fact,  
10 using the FRCC method they never fell below 5% after  
11 accounting for historical uncertainty. So we drew  
12 away any concern that we had from the summer.

13           The winter results were a little bit more  
14 extreme than the summer. As we show on the second  
15 column, the original reserve margins were projected in  
16 two of the year years at 15%, and then in other years  
17 it reached up to a 19% level. After accounting for  
18 some average errors, the FRCC method of using the  
19 average historical uncertainties ranged anywhere from  
20 a 15% down to a 2%.

21           Well, in looking at this they concluded that  
22 reserves could be maintained and reliability could be  
23 maintained with roughly a 13% reserve margin. Well,  
24 in using the FPSC -- or the probabilistic method, we  
25 saw that in the year -- the winter periods of 1999,

1 2000 and 2001, it started to get a greater percentage  
2 of shortfalls to the extent that the shortfalls  
3 started becoming -- represented 6% and 8.3% of the  
4 probability, which in turn equated to roughly 1,000  
5 megawatts of shortfall.

6 But the real question is now that we've seen  
7 these potential shortfalls and potential inadequacies,  
8 what do we do? Do we require additional capacity  
9 resources? Are there mitigating factors out there,  
10 such as improving availability; the cold weather  
11 benefits, not only in generation but DSM? Public  
12 appeals is one response, as well as scam load  
13 management that Mr. Adjemian spoke about earlier.

14 And it's these types of questions that we  
15 hope that in working with the FRCC and in the upcoming  
16 years, that we can take the benefits of both this  
17 method as well as the averaging method and address  
18 these in the future analyses.

19 At this time I'll take any questions with  
20 respect to the method was employed, and Joe Jenkins  
21 will address any questions regarding the concerns with  
22 load and reliability.

23 MR. BALLINGER: I'll fill in for Joe on  
24 those.

25 CHAIRMAN JOHNSON: Any questions from the

1 audience?

2 (No response.)

3 **CHAIRMAN JOHNSON:** No. Commissioners?

4 (No response.)

5 **CHAIRMAN JOHNSON:** Thank you.

6 **MR. BALLINGER:** I guess from there, I guess  
7 we can go to the individual utilities, and we've left  
8 it to their discretion if they want to give a  
9 presentation or not of their individual plans.

10 The only list we could find as far as an  
11 ordering list was on the heading of the official  
12 notice of this proceeding, and we've followed it so  
13 far. We had the FRCC going first. The next utility  
14 on the list would be Florida Power Corporation. So if  
15 they'd want to step up and -- if they want to go  
16 through their presentation or not.

17 Let me also, before we get into this, I've  
18 gotten some responses to the information we requested  
19 regarding low temperature, purchase power, things of  
20 that nature. So if you provided it to Staff, you  
21 don't need to go through that. I don't know that  
22 we'll have any real questions at this time. We will  
23 look at that and hopefully discuss it in our write-up  
24 of this review.

25 There was a little bit of confusion with the

1 things; so they should be prepared to address those.

2 MR. RIB: Thank you. We will try to keep  
3 our comments brief, since I know we have a lot to  
4 cover today. I am Michael Rib with Florida Power  
5 Corporation. I am honored to be first this year to go  
6 through it, and I know we've gone through some of this  
7 material in the Commission workshops, so we'll try to  
8 move through most of these issues more quickly  
9 endeavoring to touch on the specific questions that  
10 Staff has asked us to address.

11 Just a quick update. We have continued in  
12 our 1998 plan to apply a 15% reserve margin on firm  
13 peak load for a reliability criteria, and we also test  
14 that for LOLP, which we call .1 days per year  
15 equivalent to one day in 10. The other constraint  
16 that we analyze is SO2 emissions requirements starting  
17 in year 2000 to meet the prescribed limits that the  
18 EPA has assigned us.

19 Okay. Talk about winter first. What we're  
20 showing here is our forecast for the winter going  
21 forward from '99, the winter of '99, forward again.  
22 You can see the actuals in the earlier years going up  
23 and down as they did in the FRCC, '97 being a fairly  
24 mild winter; '99 going forward back on a trend  
25 forecast that we feel we are not planning it purely

1 for that mild winter of '97.

2           Some of the questions that were asked of us  
3 in the exchange dialogue this summer of Commission  
4 Staff, one of which was in our weather history what --  
5 how many years do we look at in terms of determining  
6 planning weather that we're designing our system for.

7           Florida Power looks back at 23 years of  
8 weather history and looks at the temperatures that  
9 occur over the peak periods -- and this applies really  
10 for summer and winter -- as well in the winter as  
11 looking at the prior 24-hour period to see how that  
12 impacts.

13           We've discovered in our research that  
14 generally for the cold temperatures we experience, we  
15 also need to look at a 24-hour period in advance of  
16 the morning peak we hit on those cold winters and see  
17 how that affects it, because there's a build effect in  
18 the prior 24 hours.

19           The two-hour average temperature basis we're  
20 using is 34.2 degrees, and that's based on a weighted  
21 average between temperatures collected in  
22 St. Petersburg, Orlando and Tallahassee, and those are  
23 weighted in a representative fashion of the amount of  
24 load that we serve in each of those regions.

25           Another question we had been asked by Staff

1 was for the '99 winter forecast, what temperature  
2 would our reserves be depleted; and we addressed that,  
3 286.8 degrees two-hour averages, roughly the point at  
4 which our reported reserves would be depleted.

5 A couple comments to add on summer. We're  
6 showing the forecast table from our ten-year site  
7 plan. You can see the history, the trend. The growth  
8 trend is much more visible and consistent in the  
9 summer graph, and that's the same comment Mr. Adjemian  
10 added to his.

11 In this you see a noticeable dip out in  
12 2002-2003 period, and what we're showing there is  
13 anticipated changes in wholesale requirements. I  
14 would characterize the retail service area growth as  
15 being pretty consistent, much like you see in the  
16 trend of the actuals in the prior years.

17 Now, we did have -- every utility in Florida  
18 went through some difficulties this summer. We had  
19 record high demands in June, and I think we set a lot  
20 of temperature records in that month for all history.  
21 I would comment that the direct load control program  
22 that we have, which includes our load market customers  
23 and our interruptible customers, was there as planned  
24 to meet the requirements and maintain reliability of  
25 the system even through very difficult times in terms

1 of the demands on the system from temperature as well  
2 as some of the experiences that we had with our  
3 generating equipment.

4 We managed to serve continuously firm load  
5 throughout the summer and have not had to interrupt  
6 firm load at any time this summer. So our system has  
7 worked as we would like it to.

8 I think we would always hope to do better,  
9 but the combination of issues we were dealing with  
10 this summer, we're very glad that we were able to  
11 serve as well as we did.

12 Some of the customers that were load  
13 management participants dropped off. In June we had a  
14 fairly substantial drop-off. I think most of the  
15 folks in the Commission are aware of that. Roughly  
16 40,000 of our load management participants dropped off  
17 either in a partial way, in other words, they may have  
18 kept one appliance on and dropped another appliance,  
19 or some of them dropped completely.

20 By July that had tapered off to what we  
21 consider a normal level. I think in the first week of  
22 July there were about 5,000, and after that it tapered  
23 off to a very normal exchange level of new customers  
24 coming on and attrition of customers moving out of the  
25 area or dropping off the program.



1           So it was a very short-term effect. And I  
2 think in June with the fact that we were depending on  
3 those folks, we found out that maybe some of the  
4 folks -- not a lot of them, but out of a total program  
5 of about 550,000 customers, we might have found some  
6 of the folks who really weren't the best applied to  
7 these load management programs to begin with.

8           We were asked about cogeneration performance  
9 through the summer, and we reported roughly at 92%  
10 on-peak availability of our cogeneration suppliers,  
11 which we consider adequate.

12           We were also asked some specific questions  
13 on power purchases and sales during the quote "summer  
14 '98 heat wave". We had some purchases and sales at  
15 very high prices, I would say. That's not the type of  
16 hourly prices we anticipate on a daily basis, but more  
17 in unusual situations like we had this June.

18           We reported our highest sold power, at the  
19 request of Staff, somewhere between \$2,000 and \$4,000  
20 a megawatt hour for 87 megawatts over a six-hour  
21 period; and I think that's been submitted to  
22 Mr. Ballinger for his compilation.

23           He also requested the highest price paid for  
24 purchased power, and that was somewhere between 2 and  
25 \$400 per megawatt hours for a total of 48 megawatt

1 hours. So it was a very small amount. During that  
2 period of that purchase we were purchasing to support  
3 firm load, and during that period we were also  
4 operating load management and our ISCS program. So I  
5 think that was the request Mr. Ballinger had for us.

6 **COMMISSIONER GARCIA:** Before you move off,  
7 you had 45,000 customers drop off your program?

8 **MR. RIB:** Yes, we did. I'm sorry. The  
9 megawatt -- rough megawatt equivalents for that -- for  
10 the drop-off is there. I neglected to mention that.  
11 That's about 50 megawatts of summer interruptible  
12 capability and translates to a little bit more in the  
13 winter, about --

14 **COMMISSIONER GARCIA:** And this is just  
15 because they were bothered by being cut off?

16 **MR. RIB:** Yeah, they -- primarily I think  
17 that was the complaint, that they were being used  
18 frequently, and I guess they weren't adapting to it.

19 **MR. HAFF:** But the interruptions didn't  
20 exceed the limits established in the tariff, did they?  
21 I mean, you didn't interrupt them longer than 15  
22 minutes every hour?

23 **MR. RIB:** No.

24 **MR. HAFF:** Okay.

25 **MR. RIB:** I guess I would comment that the

1 tariff includes provisions for operating them beyond  
2 those time periods and capacity emergencies, but to my  
3 knowledge, we weren't doing that.

4 I think I've covered most of these. In our  
5 ten-year site plan we are continuing to show  
6 expectation to meet the DSM goals growth that had been  
7 established in the '93 Commission goals docket. In  
8 terms of new participants, we exceeded those goals'  
9 requirements for '97. DSM programs are open to all  
10 customers and -- trying to find the appropriate  
11 customers for the programs.

12 And after the drop-offs, we still have  
13 roughly a half a million of our customers on  
14 residential load management. So it's a very high  
15 participation rate.

16 MS. SWIM: May I ask a question? This is  
17 Deb Swim for LEAF. I'm wondering -- you say there  
18 that you include DSM goals for future years in the  
19 plan. I'm wondering how you do that.

20 MR. RIB: Well, the DSM goals, it's actually  
21 outlined in our ten-year site plan. The DSM goals for  
22 megawatts and megawatt hours, both for load and  
23 conservation, we read upon are -- are included as  
24 assumed resources for -- up until 2003. At that  
25 point -- which is the end of the goals period -- at

1 which point we keep that consistent thereafter.

2           **MS. SWIM:** So what you're saying is after  
3 2003 you assume no incremental DSM?

4           **MR. RIB:** That's correct.

5           **MS. SWIM:** Okay.

6           **MR. RIB:** I wanted to just touch on very  
7 briefly some of the things we are doing in terms of  
8 improving the economy of our mix and some of the  
9 capacity being added to the state, which I think is a  
10 positive note for today's conversation.

11           We've done several peaker conversions to  
12 burn natural gas and/or distillate oil, and we're  
13 continuing on the program. We recently completed  
14 another peaker at Suwannee plant, which is in north  
15 Florida, and we attempted to endeavor to pursue dual  
16 fuel capability where we can.

17           Also, are still on track in our Anclote gas  
18 conversion for supplemental gas-firing. Unit 2, as I  
19 understand, is still scheduled in service this fall.

20           Hines Energy Complex is in construction and  
21 start-up at this time. That 470-megawatt unit is  
22 coming along quite well, and we have an expected  
23 commercial in-service date in November.

24           We've also included in our plan some  
25 capacity upgrades at Crystal River, which are turbine

1 enhancements, to allow increased capacity at that  
2 site, and at very attractive rates.

3 In future expansion, we've shown Unit 2 and  
4 Unit 3 being added at the Hines Energy Complex as our  
5 next economic unit addition starting November 2004.  
6 Both of those current -- plan natural gas supply from  
7 FGT pipeline, and those units at that site all include  
8 distillate backup fuel.

9 Touching briefly on Hines 1, Westinghouse is  
10 the major equipment supplier for that unit. Power  
11 block construction is almost complete, and we did  
12 first fires of our combustion turbines beginning in  
13 July. So things are coming along nicely.

14 What I've shown here is a capacity resource  
15 mix for the year 2000. It's based on winter capacity,  
16 and there's a couple of take-aways we can get from  
17 this. This represents in total capacity just over  
18 12,000 megawatts of capacity, including supply  
19 resources and demand side resources. You can see that  
20 DSM is included in the resource mix.

21 One of the questions we were asked is how  
22 much of our capacity does not have backup -- how much  
23 of our gas-fired capacity does not have backup  
24 distillate capability. And out of this roughly  
25 12,000 megawatts, we have about 400 megawatts of

1 gas-fired capability without backup. However, those  
2 are all firm gas customers -- I'm sorry -- firm gas  
3 allocation to those units.

4 In the IPP cogens there may be some issues  
5 that we need to look into, but they're not of a  
6 significant magnitude when you look at the total  
7 resource mix.

8 Another question that was asked that we  
9 comment on is the appeals for public assistance in the  
10 pipeline incident. And we've talked to the folks in  
11 our operations group. I can't give you an exact  
12 number to determine how effective that was, but their  
13 comment was it was effective in helping us manage the  
14 capacity situation. I apologize that I don't have the  
15 specific number for that.

16 And one last question related to qualifying  
17 facilities was, do we have a standard offer contract.  
18 We do not have a unit specifically identified as an  
19 avoided unit at this point in time, so our company  
20 does not have a current standard offer contract.

21 (Pause)

22 Now, this shows the corresponding energy  
23 mix, forecast for 2006, a growing addition of natural  
24 gas; still coal and nuclear, key supplier is.

25 (Indicating) And also showing purchased capacity as

1 well.

2           Okay. Last page. We have shown our summer  
3 and winter reserve margins. One of the questions I  
4 was asked by Staff references winter 2000-2001 showing  
5 13%.

6           We have some uncertainty in our load  
7 forecast in that period depending on some of our  
8 wholesale contracts, and we're nearing a point, I  
9 think, where we'll find out if those folks are making  
10 a choice to another supplier or whether they're going  
11 to depend on us. So if we -- we intend to make  
12 short-term capacity purchase if necessary to cover  
13 that and meet that reserve minimum of 15%, but we  
14 didn't want to show that since it hadn't been  
15 consummated in the load -- the wholesale contract  
16 question was still open at the time that we put the  
17 plan together. So that seemed to be an answer to the  
18 question, I think.

19           And that's the end of the presentation I had  
20 planned.

21           **CHAIRMAN JOHNSON:** Any questions,  
22 Commissioners? Staff?

23           **COMMISSIONER DEASON:** I have a question.  
24 Who are you going to buy from in the year 2002, 2001  
25 if you do not lose those contracts?

1           MR. RIB: That hasn't been identified yet.  
2 I think probably October, November this year we'll  
3 need to pursue that.

4           COMMISSIONER DEASON: Well, what is the  
5 reserve margin for the state of Florida as a whole for  
6 the 2000-2001 time frame?

7           MR. RIB: I think the state as a whole is at  
8 15%.

9           COMMISSIONER DEASON: It doesn't show a lot  
10 of excess capacity then, does it?

11          MR. RIB: No, it doesn't. I think if we are  
12 going to have trouble meeting that, I think we will  
13 advise accordingly. I think we can meet that.

14          MR. MCGLOTHLIN: Leslie, I've got some  
15 questions, if you want me to go next.

16          COMMISSIONER JACOBS: I have a brief  
17 question. I noticed that -- and I don't know if it  
18 was in this or in FRCC's document. Your winter peak  
19 awards particularly depended on nonfirm low. Is there  
20 a particular strategy that goes along with that, or is  
21 it simply a falling out of the process that you've  
22 outlined here?

23          MR. RIB: Well, first I'd say I think it  
24 falls out of the process of the way we calculate this.  
25 I think on a percentage basis we do have the largest



1 load management program in terms of total resources in  
2 the state. So when you do the calculation it shows  
3 that a large part of our winter reserves are in -- are  
4 characterized as nonfirm capability. So, I mean,  
5 doing the calculations as is, that's what it shows.

6 COMMISSIONER JACOBS: Thank you.

7 MR. HAFF: Go ahead, Joe. I'll go after  
8 you're done.

9 MR. MCGLOTHLIN: Okay. I don't know if  
10 anyone needs me to step over to the other table.

11 Commissioners, I'd like to give a very brief  
12 preface to my questions. I'm Joe McGlothlin. I'm  
13 with John McWhirter. I'm here on behalf of the  
14 industrial interruptible customers.

15 There are two aspects of the interruptions  
16 that were experienced during the June-July time frame  
17 that warrant some analyses.

18 The first is whether we were witnessing an  
19 aberration of weather, or whether instead we were  
20 seeing evidence of inadequate capacity for the systems  
21 of those utilities and for Florida as a whole.

22 As John said earlier, the expectation of  
23 interruptible customers who entered their deal with  
24 the utility was that there would be capacity adequate  
25 to serve the firm customers' needs with the reserves

1 and that those reserves would be adequate to satisfy  
2 their inferior but -- service quality, but in a way  
3 that would meet their needs.

4 But the second aspect is, were interruptions  
5 even of nonfirm customers necessary under the  
6 circumstances that governed in June or July. And with  
7 respect to the first question, we commend Staff for  
8 probing that issue and for gathering the information.

9 With respect to the second, following the  
10 Staff workshop we asked the Staff to include in the  
11 informal data requests some questions that we posed to  
12 Florida Power Corporation and Tampa Electric regarding  
13 the particulars of those interruptions.

14 We believe that under the terms and  
15 conditions of service, there were some things that the  
16 utility can and must try to do to keep even nonfirm  
17 customers on the system whenever possible.

18 First of all, the utility should suspend any  
19 discretionary off-system sales so that it can continue  
20 to serve nonfirm customers. We've seen some  
21 documentation that refers to something called  
22 recallable and nonrecallable sales, and we wanted to  
23 know the definitions of those so that we can determine  
24 whether the sales that occurred during that time were  
25 truly firm nonrecallable sales.

1           The second thing that the utility should  
2 have to do is limit any genuinely needed interruptions  
3 to the minimum amount of capacity needed to serve firm  
4 customers; and what we don't know without more  
5 information is whether the utilities have a practice  
6 of trying to tailor the interruption, or whether they  
7 simply knock off the class of interruptible customers  
8 when if a mechanism for rotating the burden were  
9 implemented, it could be done successfully.

10           We've asked whether the utilities are  
11 tapping all available resources, including QFs, and we  
12 notice what appears to be a disconnect between the way  
13 the utilities price as-available purchases from QFs on  
14 the one hand and what they're willing to pay for  
15 different types of purchases to other utilities on the  
16 other hand; and if there is a rational way of enabling  
17 QFs to go full out by offering a more compensatory  
18 rate that is consistent with the definition of  
19 as-available --

20           **COMMISSIONER GARCIA:** What do you mean,  
21 Mr. McGlothlin? Could you explain that more?

22           **MR. MCGLOTHLIN:** Yes. I think you'll find  
23 the prices paid to QFs for as-available energy would  
24 be in the range of -- oh, I don't know -- 28 to \$30  
25 per megawatt hour at the same time utilities during

1 the capacity shortfalls are paying in the range of  
2 several hundreds of dollars per megawatt hour.

3           That seems to be a discrepancy that invites  
4 at least some analysis as to whether there's something  
5 amiss in the way that the as-available purchases are  
6 being pushed through the formula for pricing. And our  
7 thought is that there may be an additional resource in  
8 the form of QFs who can and would generate more power  
9 during these capacity shortfalls if the price were  
10 more compensatory and that would alleviate in the  
11 shortfall during those circumstances.

12           We ask that utilities provide the  
13 information that would enable the Commission to assess  
14 the reliability of the residential load management  
15 programs, both from the aspect of whether the  
16 mechanisms in place to remove them from the system  
17 work fully, and also as to the numbers of customers  
18 who left the system during the most recent experience.

19           It could be that the utilities are tending  
20 to overstate the reliability of the system by counting  
21 too much on what may be a very vulnerable resource in  
22 the form of residential load management.

23           Finally, we saw some documentation called  
24 capacity assessments, which are projections of the  
25 next day's available capacity compared with load

1 whenever certain temperature criteria are triggered  
2 and various reasons of the state.

3           Again, those are projections, and it  
4 appeared to us that if we could add to that a  
5 follow-up report that would show what actually  
6 transpired, that that may be an additional and  
7 valuable tool for assessing the conditions of the  
8 system around the state.

9           Now, I haven't received any responses to our  
10 written requests for information. Mr. McGee advised  
11 me that Florida Power Corporation intends to provide  
12 us with a written response sometime next week. I hope  
13 and trust that TECO is working on that as well.

14           But to the extent that a more general way  
15 the witnesses -- or the presenters -- excuse me -- can  
16 describe the way they approach these subjects, whether  
17 they tailor the size of the interruption, how  
18 thoroughly they try to identify and negotiate with  
19 potential buy-through sources of power, and their  
20 practices with respect to the relationship between  
21 nonfirm customers on their own system on one hand and  
22 sales they're making to other utilities at the same  
23 time they're interrupting native customers on the  
24 other hand, I think it would be very valuable  
25 information to hear from them today as well.

1 I'd also like to give you a copy of the  
2 letter and data request that we submitted to them  
3 before we leave today.

4 UNIDENTIFIED SPEAKER: Tom, do you want me  
5 to address those or --

6 MR. BALLINGER: Yes, go ahead.

7 MR. DOLAN: Okay. Vinnie Dolan with Florida  
8 Power Corporation. And, as Mr. McGlothlin indicated,  
9 we will be filing -- or submitting written responses  
10 to these questions sometime early next week.

11 But just taking them in order, I think one  
12 of the issues regarded what Mr. McGlothlin calls  
13 discretionary off-system sales, and our answer will  
14 indicate that during any of the periods of  
15 interruptions, we were not making any discretionary  
16 off-system sales.

17 As a matter of fact, I think his terminology  
18 is "recallable" and "nonrecallable." Maybe the better  
19 terminology is nonfirm sales that we tend to make day  
20 to day. We recalled all of those when we had capacity  
21 emergencies for our native customers.

22 With respect to the amount of capacity that  
23 we interrupt during critical time periods, we have  
24 approximately 300 megawatts of interruptible  
25 capability, and the majority of the times that we

1 needed to interrupt in June, we needed all of that  
2 capacity. That is and has been our practice during  
3 periods of interruption for a number of years.

4           It's our understanding that others may be  
5 doing that differently, and we would certainly be  
6 willing to talk about that, changes to that, that are  
7 technically feasible so that if there is a way, if we  
8 only needed, say, 100 megawatts, that we could rotate,  
9 we're certainly amenable to that and be happy to talk  
10 with our interruptible customers about that.

11           With respect to the purchased power, Florida  
12 Power recently entered into an alliance with Dynergy  
13 Corporation, and I think we've expanded our reach, and  
14 I will assure you that we made every effort during  
15 these capacity emergency situations to find all  
16 available power for both our firm and nonfirm  
17 customers.

18           As to the difference in pricing as-available  
19 for QFs versus the way the market works, I think -- I  
20 certainly don't profess to be an expert about that,  
21 but we have contracts and tariffs that govern our  
22 relationships with our QFs, and I think we follow  
23 those contracts and tariffs in terms of the pricing of  
24 that power.

25           With respect to residential load management,

1 I think Mike earlier addressed, I think essentially  
2 our customers responded to the extreme heat in June,  
3 and we had a reasonably high number of customers that  
4 decided to leave the program decided that the economic  
5 value of the credit was not worth, I guess, the  
6 inconvenience of the interruption.

7           But by the same token, we still have half a  
8 million of our customers, or roughly about 50%, that  
9 still think there is good value for the credit versus  
10 the amount of interruptions that they have to  
11 tolerate; and we think that's an important part of our  
12 generation mix.

13           And I think the last question was one that  
14 was directed at FRCC, if I'm not mistaken.

15           **MR. MCGLOTHLIN:** Brief response. And I look  
16 forward to seeing the detailed written responses to  
17 the questions that asked for some backed up  
18 information.

19           But the one thing that occurred to me is  
20 that I'm sure Florida Power Corporation followed its  
21 tariff with respect to the pricing of QF power. Each  
22 utility has to have a methodology in place that  
23 describes the formula for calculating as-available  
24 pricing.

25           My point was that there may be something



1 deficient with the methodology in place if it results  
2 in the type of discrepancy and disparity that I've  
3 described to you. And you'll see in your rule  
4 governing as-available energy, that among the factors  
5 that go into it is the avoided cost associated with  
6 purchased power.

7           So it seems to me that there may be an  
8 avenue there that the utilities could avail themselves  
9 of and need to, if they are to fully extract --

10           **COMMISSIONER GARCIA:** Give me an example of  
11 what you'd want, Mr. McGlothlin.

12           **MR. MCGLOTHLIN:** Well, I'm not prepared to  
13 make the full proposal, but I'm making the observation  
14 that the as-available prices paid to QFs are orders of  
15 magnitude lower than prices being paid to utilities  
16 from whom the utility purchases during these type  
17 periods of tight capacity at the same time that the  
18 Commission's rules governing as-available seem to have  
19 room within the parameters for recognizing the cost of  
20 purchased power and the formulation of the  
21 as-available price. And I'm suggesting that's  
22 something worth exploring.

23           **COMMISSIONER CLARK:** So you're saying QFs  
24 should get market price when capacity is constrained?

25           **MR. MCGLOTHLIN:** Well, that wouldn't be

1 market pricing, because the definition is in terms of  
2 the utilities' avoided costs. But that definition  
3 does incorporate a reference to whether the power is  
4 being generated by the utility or being purchased by  
5 the utility.

6 So to the extent that those purchase prices  
7 are based upon the selling utility's costs, it would  
8 be something other than pure market pricing.

9 COMMISSIONER DEASON: Mr. McGlothlin, when  
10 payments are made for as-available, those are costs  
11 which are then passed through the fuel adjustment  
12 clause; is that correct?

13 MR. MCGLOTHLIN: Yes.

14 COMMISSIONER DEASON: So you're proposing,  
15 then, that all customers pay a higher price so that  
16 you don't get interrupted. Am I looking at it too  
17 simplistically?

18 MR. MCGLOTHLIN: Well, that wasn't the  
19 intent of my suggestion. Maybe that's another  
20 possible source of buy-through power in that event.  
21 This could be something that could be an exception for  
22 tight situations and for buy-through pricing.

23 CHAIRMAN JOHNSON: Staff?

24 UNIDENTIFIED SPEAKER: Tom, probably one  
25 other point that needs to be made here is I know part

1 of your data requests got to highest sales prices and  
2 highest purchase prices, and I think we need to keep  
3 in perspective that, you know, those -- the kind of  
4 prices we're looking at are very short duration under  
5 extreme conditions.

6           And I think what we'll find, and I think  
7 what Mr. McGlothlin will see when we submit our  
8 information next week is that forecasted as-available  
9 prices by and large throughout the course of the year  
10 tend to match up very nicely with the actual prices  
11 paid.

12           So I think we need to keep in perspective --  
13 you know, we had a series of days in June where we had  
14 hot weather that some folks clarify as rivaling, you  
15 know, hottest summer month that we've ever had here in  
16 Florida for the last 30 years or whatever.

17           So I think we need to be mindful that we  
18 don't, you know, take one instance and manage this  
19 whole issue by exception as opposed to looking at it  
20 in total and making sure we're doing the right thing.

21           **MR. BALLINGER:** I agree, and I think some of  
22 the utilities' as-available methodologies account for  
23 purchased power in emergency situations such as this.  
24 I also believe that I think only Florida Power was the  
25 utility with the highest purchase price that was

1 buying it for firm power. Many of the other utilities  
2 were buying it and reselling it back out of state. So  
3 it wasn't needed for their own native load, it was  
4 just a strictly marketing tool.

5 That's basically what I have on that  
6 situation. I think that's it, as far as Staff goes.  
7 I think Mike may have a question.

8 MR. HAFF: My question was already answered.  
9 Thanks.

10 CHAIRMAN JOHNSON: Thank you.

11 MR. BALLINGER: Joe, would you want to stay  
12 there and hear TECO, and then that would finish you up  
13 as well, I presume?

14 MR. McGLOTHLIN: All right.

15 MR. CURRIER: Good afternoon. My name is  
16 John Currier, director of planning at Tampa Electric  
17 Company. What we'd like to do this morning is present  
18 our revised ten-year site plan as it relates to our  
19 new business forecast for 1999.

20 As it relates to going to an annual business  
21 cycle, our full business cycle actually moved up two  
22 to three months here at Tampa Electric Company this  
23 year, and with that we've been able to capture out the  
24 newest assumptions, including the weather and strong  
25 economic growth of our service territory that we've

1 been experiencing, particularly this summer.

2           As it relates to loads and demands, we  
3 actually saw a 7% increase in peak demand this summer  
4 on our system, not once, but we actually saw four or  
5 five different occasions, including the month of  
6 August, which was more of a typical summer weather  
7 pattern.

8           With a 7% increase, we've revised and looked  
9 at our forecasting techniques and tools, and with that  
10 we have not only a different load forecast this year,  
11 but also a different schedule for our expansion plan.

12           Mark Ward, who is our manager in our  
13 resource planning department is going to actually  
14 present our revised ten-year site plan, and Mark  
15 compares that against what was filed in the month of  
16 April, which was the original site plan; and we're  
17 going to present that in a moment.

18           First of all I want to make a few comments,  
19 though, as it relates to the month of June on our  
20 system. Tampa Electric actually interrupted its  
21 interruptible class of customers one time, and that  
22 was on June 22nd, and that was clearly when there was  
23 a -- purchase power available for the buy-through  
24 provision.

25           This year we have exercised load management

1 seven times in the month of June and six times in the  
2 month of July. We've actually had less customers  
3 leave our system this year than we had the previous  
4 year; 1,000 of our 80,000 customers, which is barely  
5 over 1% that have left our system.

6           During the FGT occurrence, or event, that  
7 occurred, Tampa Electric actually experienced its  
8 summer peak that Monday right after that experience  
9 for the year. And although we don't have a  
10 significant amount of natural gas generation, we do  
11 buy from the Hardee Power Partners through an IPR  
12 contract, and that station actually switched over from  
13 gas to oil without actually -- without losing  
14 generation. So we were able to carry that day very  
15 well.

16           As it relates to Mr. McGlothlin's comments  
17 or questions, we have submitted our response to those  
18 questions this morning through Mark Futrell on Staff;  
19 and I've got a few comments I'd like to mention as it  
20 relates to your questions.

21           First of all, Tampa Electric does have a  
22 sequencing of -- arrangement as it relates to how we  
23 prioritize the interruptible class of customers. And  
24 it does go through a rotation based on last one  
25 interrupted will go to the bottom of the list for the

1 next occurrence.

2           This June 22nd was a substantial operation,  
3 and we actually had to exercise the full class, the  
4 interruptible class, which was approximately 200  
5 megawatts --

6           **COMMISSIONER JACOBS:** Excuse me. I had a  
7 question there. You interrupted -- that there was no  
8 available purchased power that day?

9           **MR. CURRIER:** No available for the  
10 buy-through. We were able to carry it for the  
11 emergency K for four hours. So we bought emergency  
12 power for the firm class of customers.

13           **COMMISSIONER JACOBS:** Is it possible that  
14 that mark or condition was related to the midwest  
15 events? In other words, there was so much purchasing  
16 going on up there that it --

17           **MR. CURRIER:** I believe it was related. It  
18 occurred in the same time frame of June 22nd, and  
19 there was a -- you know, substantial power needs  
20 throughout the eastern United States.

21           **COMMISSIONER JACOBS:** Thank you.

22           **MR. CURRIER:** Also, the fact of just the  
23 extreme weather conditions here in Florida made a  
24 challenge for all the utilities.

25           As it relates to recallable wholesale

1 transactions, all our recallable sales were recalled  
2 during that day, including the wholesale transaction  
3 through Seminole's system to one of the IMC customers.  
4 That's in the PRECO service territory that we serve.  
5 So that one was also reca'led.

6 Joe, is there any other questions you want  
7 to ask me at this time at this point before we go to  
8 Mark's presentation as it relates to your questions?

9 MR. McGLOTHLIN: You might just spend a  
10 moment defining what you mean by recallable; what type  
11 of sale would be recallable; what type of sale would  
12 take precedence over your native customers.

13 MR. CURRIER: Recallable sales are nonfirm  
14 transactions, economy broker sales, and then  
15 transactions that are actually contracted as a  
16 recallable case, and that's in the case before you get  
17 to native load, firm native load, customer  
18 interruptions. Certainly those are recallable.

19 MR. McGLOTHLIN: Where you do have a  
20 buy-through opportunity, is it your practice to try to  
21 price that power and notify the customers ahead of  
22 times, or is that after the fact?

23 MR. CURRIER: Yes. You'll see in our  
24 response, in the case where you can have a significant  
25 amount of time to actually shop for the purchased



1 power -- often we'll start early in the morning when  
2 we know we're in situations we may be looking later in  
3 the afternoon for peak, we have those opportunities to  
4 shop, and there's enough of a notice, we will contact  
5 interruptible customers and give them an opportunity  
6 to look at that price as it relates to that  
7 buy-through option.

8           When you're in a situation where you're down  
9 to less than an hour and system dynamics have  
10 suggested now we have to look at buy-through or  
11 actually have to exercise that, there's just not  
12 enough of a window of time to actually be able to find  
13 a price and communicate; often because of what your  
14 purchasing may or may not be priced at that point  
15 anyhow.

16           Often you just take the transaction that you  
17 have available. So there is -- that response is also  
18 in our submittal to you.

19           **MR. McGLOTHLIN:** Thank you. I don't want to  
20 belabor that and impose on the Commissioners' time  
21 anymore, but I would look forward to seeing written  
22 responses.

23           **MR. CURRIER:** Okay. In addition to that was  
24 it relates to our QF pricing. Tampa Electric in its  
25 tariff does price purchased power a component of the

1 full QF price in that given hour. So you can take a  
2 look at our tariffs, and that's our practice, too.

3 And with that, I'd like to turn over our  
4 presentation to Mark Ward.

5 MR. WARD: Good afternoon. My name is Mark  
6 Ward. I work for Tampa Electric. I'd like to show a  
7 comparison of our demand in energy forecast for the --  
8 as compared to the ten-year site plan that we filed in  
9 April this year versus the amended plan that we filed  
10 in August this year as a result of our early planning  
11 process.

12 The winter total peaks and the summer total  
13 peaks both show increases as well as the net energy  
14 for load.

15 The next chart looks at the makeup for our  
16 demand side resources. We have included conservation,  
17 interruptible, self-serve cogen and load management,  
18 and over the planning period we increase during the  
19 winter about 300 megawatts. The overall contribution  
20 of each component, each resources -- stays about the  
21 same through the planning period.

22 And then I'm showing on the next chart  
23 demand side resources for the summer over the planning  
24 period. And again, same type of resources, and the  
25 contribution of each resource pretty much stays the

1 same over that planning period.

2           The next chart I'd like to show is our  
3 expansion plan that we are proposing with our amended  
4 ten-year site plan and the summer and winter reserve  
5 margins with the exercising of load management and  
6 interruptible. I'd like to use this chart to respond  
7 to a few of the statements that were made earlier  
8 today by Mr. Davis and Mr. McWhirter.

9           Three points concerning LOLP. The 0.1 LOLP  
10 guideline concerns only the firm customer. It does  
11 not indicate the magnitude nor the frequency that a  
12 particular interruptible customer may be exercised.

13           Concerning the interruptible customers,  
14 interruptible customers provide a method for utilities  
15 to defer generation in exchange for significantly  
16 lower rates as compared to the firm customer.

17           And then the final statement is on load  
18 management. Load management programs also serve to  
19 defer expansion requirements. Customers receive a  
20 credit on their monthly bill. The credit amount is  
21 based on the level of involvement in the program. The  
22 value of that credit is based on the avoided unit  
23 concept.

24           Operationally, if load management resources  
25 are used prior to interruptible customers, this has

1 approximately the same effect as if the unit was, in  
2 fact, built in lieu of the load management resource.  
3 Frequency of use of the load management is subject to  
4 a theoretical maximum of the projected capacity factor  
5 of the avoided unit.

6           The next chart shows our incremental  
7 resources. Over the next 10 years we plan to add  
8 roughly 75% in generating capacity and a 25% demand  
9 reduction resources. The makeup of our overall  
10 resource mix through time stays about the same, if you  
11 include future capacity along with existing capacity.

12           My final chart shows the generation mix by  
13 fuel type. Going through time with the addition of  
14 our planned generation, you'll see a decrease in the  
15 reliance on coal and a heavier increase on the  
16 reliance of natural gas.

17           Are there any questions?

18           **MR. HAFF:** Yes. These charts, I understand,  
19 are based on your revised ten-year site plan that we  
20 received about two weeks ago?

21           **MR. WARD:** That's correct.

22           **MR. HAFF:** I'd like to make note that  
23 there's not enough time left to send this plan out for  
24 review agency comments as the statute mandates for our  
25 review. So our review will focus on the plan that was

1 filed in April of this year.

2 MR. WARD: I understand.

3 MR. HAFF: Okay. We appreciate you keeping  
4 us updated with the latest information. Because of  
5 the late time it was filed, we can't get review agency  
6 comments in time to meet our deadline for our report.

7 MR. WARD: We just felt that it was  
8 incumbent that we inform the Staff and Commission of  
9 our change in plan.

10 MR. HAFF: Okay. Thank you.

11 MR. CURRIER: Any other questions?

12 (No response.)

13 MR. CURRIER: Thank you.

14 CHAIRMAN JOHNSON: Thank you.

15 MR. BALLINGER: The next utility will be  
16 Florida Power & Light.

17 MR. VILLAR: Good afternoon, Commissioners.  
18 My name is Mario Villar. I'm manager of resource  
19 planning for Florida Power & Light Company.

20 At the August 25th workshop Staff asked a  
21 number of questions of all the utilities. We have  
22 provided our response in writing to the Staff. They  
23 do have that now, so in the interests of time, I'm not  
24 going to cover those questions nor am I going to go  
25 into a formal presentation. I'll just take you to the

1 chase on our 1998 ten-year site plan and how it  
2 differs from the 1997 site plan, and what we did as a  
3 result of some comments we received, et cetera.

4           When FPL filed its 1997 ten-year site plan,  
5 we had a couple of unspecified resources that we had  
6 identified as filling our needs in the years 2002 and  
7 2003. People raised some questions, including this  
8 Commission's Staff, as to what the source of those  
9 unspecified capacity purchases might be.

10           There were also some questions raised as to  
11 the winter reserve margin that FPL might have. We  
12 have taken those comments into account in developing  
13 our 1998 plan and have addressed those issues in the  
14 plan that we now have.

15           On the left you see the 1997 ten-year site  
16 plan as filed by FPL. All I have included in there is  
17 the generating capacity additions. I have deleted a  
18 number of capacity enhancements and minor changes to  
19 our QF purchases, et cetera.

20           As you see, the two unspecified capacity  
21 purchases that we had identified in the 1997 plan are  
22 shown there on the left, followed by the Martin  
23 Combined Cycle Units No. 5 and 6, and an unsited  
24 combined cycle in 2006.

25           The 1997 plan did not go out to 2007, and

1 that's a feature of the 1998 plan. For comparison  
2 purposes, I dropped off the early years also.

3 The 1998 plan identifies our Fort Myers  
4 repowering as a preferred alternative for FPL in the  
5 year 2002. The need date did not change from the 1997  
6 plan to the 1998 plan.

7 We also have identified the repowering of  
8 Sanford in 2004 as meeting our needs, followed by  
9 Martin Combined Cycles No. 5 and 6. And as you see,  
10 the number of megawatts being added to the system is  
11 significantly increased from the one in the 1997 plan,  
12 almost twice the number of megawatts that we had  
13 projected originally.

14 There is significant benefits associated  
15 with the repowering of the Sanford and the Fort Myers  
16 facilities because they bring benefits not only in  
17 terms of capacity, but they improve the efficiency of  
18 the existing system.

19 The resulting winter reserve margins are  
20 shown in this graph. As you see, we meet the 15%  
21 reserve margin throughout the period of the study.  
22 The lowest time is the winter of 2000, 2001.

23 Summer reserve margins are shown on this bar  
24 graph, and they are higher than the winter reserve  
25 margin. The lowest ones we show there is 17% in the

1 2001.

2 That concludes my presentation. I'll open  
3 it for questions.

4 COMMISSIONER JACOBS: I saw in the load and  
5 resistance plan that you guys have plans for a 500 kv  
6 line in 2005, 2006. Are you familiar with that?

7 MR. VILLAR: That we have plans for a 500 kv  
8 line in 2005 and 2006?

9 COMMISSIONER JACOBS: Yes. I believe -- let  
10 me go to the page. I had it and I lost it.

11 UNIDENTIFIED SPEAKER: Commissioner Jacobs,  
12 I think you may be addressing there's an Andytown to  
13 Orange River 500 kv line, which in the plan is  
14 currently scheduled in 2005, 2006. That's a line that  
15 has been needed, would have been needed in the 2002  
16 time frame, but it's being delayed as a result of the  
17 repowering of Fort Myers.

18 COMMISSIONER JACOBS: You answered my  
19 question; that was, which was going to be where.

20 UNIDENTIFIED SPEAKER: Yes. It's a line  
21 which originally was intended to be sited on the  
22 existing corridor of an existing 500 kv line that runs  
23 from Andytown, which is just west of Fort Lauderdale,  
24 Florida, to Orange River, which is just east of Fort  
25 Myers.



1           **COMMISSIONER JACOBS:** Okay. Thank you.

2           **MR. DUDLEY:** I'm Ken Dudley with the  
3 Commission Staff. We recently got an e-mail with  
4 regards to FPL advancing the construction of the Fort  
5 Myers repowering. Could you discuss that?

6           **MR. DENIS:** Yes. By the way, my name is  
7 Roberto Denis, and I'm the director of resource  
8 planning, Florida Power & Light.

9           Just this week we announced that we had  
10 accelerated our plans to build a generating capacity  
11 at both Fort Myers and at our Sanford repowering from  
12 that which was just shown and included in the filed  
13 ten-year site plan that Mr. Villar just showed.

14           This acceleration or this decision to  
15 accelerate the construction of these two facilities,  
16 which is a phasing-in since this is modular technology  
17 and we can phase in different aspects or different  
18 components, takes into account the recent unusual  
19 weather patterns that have included one of the hottest  
20 summers ever experienced in Florida.

21           Florida Power & Light exceeded its 1997  
22 summer peak 43 times this summer. We do not know at  
23 this point in time whether this load increase that we  
24 have experienced is an anomaly being created by some  
25 global changes, such as El Nino, or it is the

1 beginning of a trend in weather patterns. But out of  
2 an abundance of caution and to be able to give us the  
3 flexibility to meet those loads, we've opted to  
4 accelerate the construction of those facilities.

5           The benefit of this type of construction on  
6 the repowering, which involves the adding of  
7 combustion turbines to the existing site, one of the  
8 advantages is that it does allow one to accelerate  
9 components. It's not an all or nothing with the  
10 capacity, with respects to the capacity addition, but  
11 allows us to accelerate as well as delay construction  
12 in the future, should some of this load that we have  
13 experienced not continue to form part of a trend or  
14 materialize in the future.

15           I guess Mr. Villar has put up a chart which  
16 is a modified, an updated chart from that which he  
17 just presented. My understanding is, as Mr. Haff just  
18 mentioned, that this will not be part of a -- the  
19 review process of the ten-year site plans, because the  
20 review limits itself to that which was filed already.

21           But for information purposes, this slide  
22 shows what the impact on the plan from that which was  
23 filed to that which we are currently on, the  
24 accelerated schedule. The resulting reserve margins  
25 from such an acceleration also change, as you saw

1 before.

2           Assuming no load changes, the reserve  
3 margins will change, and in the next planning cycle we  
4 will be analyzing -- and as we get some additional  
5 load research data, we will be analyzing and trying to  
6 determine the reasons for the load increases that we  
7 saw this summer.

8           **MR. VILLAR:** Going back to that previous  
9 slide that you had accelerating the Fort Myers  
10 expansion to 2001 and you show winter capacity ratings  
11 there in 2001 and 2002 with a total of 640, and in the  
12 plan that you filed, the Fort Myers expansion was  
13 expected to increase capacity by 1,000. Is there  
14 something --

15           **MR. DENIS:** Well, again -- no --

16           **MR. VILLAR:** -- not included there?

17           **MR. DENIS:** No. This is again what I'd  
18 refer to as the benefits of the type of technology  
19 that we're putting in on the repowering.

20           At Fort Myers we have had an existing -- two  
21 existing steam boilers and turbines and electrical  
22 generators. The first one is around 400 megawatts,  
23 and the second one is about 150. In the repowering  
24 process what we are doing is we are adding six  
25 combustion turbines, each nominally rated about 160

1 megawatts, which will provide the heat exhaust to be  
2 able to run those steam boilers or the revamped steam  
3 boilers.

4           What we expect because of the phasing in of  
5 the construction is that we will have two of those  
6 combustion turbines installed and operating in the  
7 winter of 2001 and we will sequentially add one  
8 combustion turbine essentially per month until we get  
9 to the summer period, at which time we will have  
10 essentially 900 megawatts of additional capacity at  
11 the site, complimented by the additional 550 or so  
12 that are already there.

13           Then what we have to do is we have to take  
14 down the existing units during that summer period to  
15 be able to do the crossover. So we lose -- although  
16 for summer purposes, which is not shown here, we add  
17 900 megawatts, but we lose 500 of existing capacity.

18           So the net result is that the sequencing  
19 throughout the years, we'll have 320 megawatts in the  
20 wintertime of 2001; we'll have approximately a net 400  
21 additional in the summertime with the full  
22 1000-megawatt increment by the end of the year.

23           **MR. HAFF:** The end of 2002?

24           **MR. DENIS:** End of 2001.

25           **MR. HAFF:** These two C's are coming in the

1 winter of 2000, 2001, at the two --

2 MR. DENIS: Yes.

3 MR. HAFF: -- CTs at Fort Myers? Okay.

4 With that acceleration, I understand that gas, the  
5 earliest gas can get to that site is March of 2001.

6 Are you going to burn these on oil? And that's  
7 assuming you have a contract, I guess, with FGT, which  
8 is another question.

9 What's the status of the fuel supply at Fort  
10 Myers?

11 MR. DENIS: When we were here, I guess a  
12 couple weeks ago, I expressed to you my wish that I  
13 could tell you that we had selected a gas transporter  
14 to supply these needs, and I did not want to comment  
15 at the time any more because of the sensitive nature  
16 of the negotiations.

17 My hopes have not been -- have not come  
18 true. We are still in very active and sensitive  
19 stages of negotiations with the gas transporters. We  
20 have issued another press release yesterday, I believe  
21 in the Fort Myers area, that talks about our  
22 selection, or our termination -- or our conclusion of  
23 those discussions by the end of this month. At this  
24 time I cannot really comment because of the sensitive  
25 nature of the discussion.

1           **MR. HAFF:** The end result is you'll probabl,  
2 be burning these on oil, these two CTs at Fort Myers,  
3 the first winter that they're operating?

4           **MR. DENIS:** That's part of the discussions  
5 that are taking place. Our hope would be not.

6           **MR. BALLINGER:** I think that's it from  
7 Staff. Are there any other interested persons?

8           **CHAIRMAN JOHNSON:** Commissioners?

9           (No response.)

10          **CHAIRMAN JOHNSON:** That's it.

11          **MR. DENIS:** Thank you.

12          **MR. HAFF:** Next is Gulf Power company.

13          **MR. POPE:** My name is Bill Pope with Gulf  
14 Power Company. We didn't plan on giving a formal  
15 presentation or summary of our ten-year site plan, but  
16 we'll be available to answer questions if anybody has  
17 got any.

18          **CHAIRMAN JOHNSON:** Any questions of Gulf?

19          **MR. BALLINGER:** I have one. I haven't got a  
20 response yet, and my only question goes to your -- are  
21 you going to issue a standard offer contract for your  
22 combined cycle you're planning to build, or are you  
23 going to seek a waiver of the standard offer rule?

24          **MR. POPE:** We will be filing a petition for  
25 standard offer contract approval within the next week

1 or two.

2 MR. BALLINGER: Will it be based on the  
3 combined cycle unit?

4 MR. POPE: It will be based on the next  
5 unit, which would be another combined cycle for the  
6 year 2006.

7 MR. BALLINGER: Okay. Thank you.

8 CHAIRMAN JOHNSON: Thank you very much.

9 MR. HAFF: Following the order on the  
10 official notice, next I have Seminole Electric  
11 Cooperative.

12 MR. POPE: This is Bill Pope again. I erred  
13 in my answer. It's a 2006 CT.

14 MR. HAFF: Thank you.

15 MR. ZIMMERMAN: I'm Carl Zimmerman, manager  
16 of planning at Seminole Electric Cooperative. We have  
17 just a very brief presentation that we're handing out.  
18 I'm not going to go through all of those slides.

19 I just wanted to make a couple comments.  
20 And my first comment is that old habits are hard to  
21 break, and we still called our presentation to the  
22 annual planning workshop. The chart that -- one of  
23 the comments that I wanted to make -- well, that  
24 doesn't work on there. (Indicating) The chart that  
25 was handed out this morning that had the summary of

1 the ten-year site plans indicated that Seminole's next  
2 need was 650-megawatt CTs.

3           Actually, our proposed additions --  
4 (pause) -- we actually have a combined cycle,  
5 gas-fired combined cycle unit scheduled to be in  
6 service January 1, 2002, and that particular unit has  
7 already been through the need determination process;  
8 and then that will be followed the following year.  
9 (Pause)

10           So I just wanted to make that one  
11 correction, that we do have the combined cycle unit  
12 scheduled in service January 2002; then followed by a  
13 group of CTs that will be -- and that's our back-stop  
14 plan. We will be issuing all source RFPs to determine  
15 exactly how we'll meet those future requirements.

16           And we did file our answers to -- or provide  
17 our answers to the questions this morning to Staff.  
18 So other than that, if there's any questions, that's  
19 the only comments that I have.

20           **MR. BALLINGER:** I'll just point out I  
21 believe that summary chart where it had the six CTs,  
22 that was because we recognized that Hardee 3 had  
23 already been certified as needed. That's why it went  
24 to the next units.

25           **MR. ZIMMERMAN:** Okay.



1           **MR. HAFF:** Are there any questions for  
2 Mr. Zimmerman?

3           (No response.)

4           **MR. HAFF:** Excellent. Thank you. Next on  
5 our list is the Florida Municipal Power Agency.

6           **MR. CASEY:** I am Richard Casey with FMPA.  
7 In the interests of time, I'm going to forego giving a  
8 detailed presentation of our ten-year site plan. I  
9 did give to Staff just a few minutes ago the other  
10 details which were requested regarding winter  
11 temperature data and sales data and experience during  
12 the FGT explosion. I would be open to any questions  
13 on that information.

14           Let me give you a couple of quick comments,  
15 though. Our all-requirements project is where we  
16 spend all of our time planning to serve the full  
17 requirements of 10 cities currently, and that project  
18 began in May of '86, and so we've only been in  
19 operation in that mode for 12 years, and, therefore,  
20 our database is somewhat limited in terms of doing  
21 detailed studies of load variation versus temperature.

22           The other consideration is, we have just  
23 added four new cities over the last two years, and yet  
24 we haven't had a cold winter.

25           So, again, our database is fairly new, in an

1 infant stage. As time goes on, we will be looking  
2 more intensely and getting a better understanding of  
3 those relationships.

4           The other point I would make is that FMPA is  
5 one of four members in the Florida Municipal Power  
6 Pool along with KUA, OUC, and Lakeland, and, therefore  
7 since we're in the pool, all of our sales were on a  
8 nonfirm basis as the pool; and so the pricing  
9 information that we've supplied to you would be the  
10 same for all four entities.

11           I guess generically I would just offer you  
12 this: We are in the process, as I'm sure you're  
13 aware, of planning to construct and have an operation  
14 for the summer of 2001, a 250-megawatt nominal  
15 combined cycle unit at Cane Island. It will be  
16 Cane Island 3. We're going to share that 50/50 with  
17 Kissimmee Utility Authority. And so that's well into  
18 the process.

19           That's all I've got to offer to you.

20           **MR. HAFF:** Any questions for Mr. Casey?

21           (No response.)

22           **MR. HAFF:** Thank you, sir. Next I have on  
23 the list, Gainesville Regional Utilities.

24           **MR. WESTPHAL:** My name is Roger Westphal,  
25 Gainesville Regional Utilities. I have no formal

1 presentation. We've filed our answers to your  
2 questions yesterday in a fax. If there's any  
3 questions, I'll entertain them now.

4 MR. HAFF: Who did you fax them to?

5 MR. WESTPHAL: To Mr. Ballinger.

6 MR. HAFF: I should know that. Thank you.

7 I've got to say something. (Laughter)

8 MR. WESTPHAL: Okay. Any further questions?

9 (No response.)

10 MR. HAFF: No. Thank you. Thanks for  
11 making the trip.

12 Next on our agenda is Jacksonville Electric  
13 Authority.

14 MR. BOSWELL: I'm Randy Boswell,  
15 Jacksonville Electric Authority. We had planned no  
16 presentation either, unless you have some questions.  
17 We did send up yesterday the information that was  
18 requested.

19 MR. HAFF: Could you explain briefly, I  
20 guess -- I know you don't have slides. But last year  
21 one of our major concerns, as you know, was the  
22 unspecified purchases that made up a large part of  
23 your expansion plan. Could you briefly explain how  
24 those may have been mitigated and what the status is  
25 of that as of this year?

1           MR. BOSWELL: I do have couple slides, so  
2 let me use those to talk from on that.

3           This is our current plan as filed, at least  
4 the major additions for the next 10 years. From last  
5 year we've added 700 megawatts of combustion turbines  
6 as well as repowering of our Northside 1 and 2 units.  
7 We do have some seasonal purchases, particularly 1999  
8 and 2000, that we will have to make prior to  
9 implementation of those purchases.

10           We already have made the purchases necessary  
11 to meet our winter of '99 obligation, and we're  
12 working on summer of '99 currently. As you know, we  
13 have significant tie capacity to the southern  
14 subregion, and we don't believe we'll have any problem  
15 making those purchases for those periods of time.

16           MR. HAFF: Any concern about the cost of  
17 those purchases?

18           MR. BOSWELL: Yes. (Laughter)

19           MR. HAFF: I'm sure. But what -- I guess  
20 you're looking at a pretty short time frame for  
21 determining when your -- or from whom you'll be  
22 purchasing from to meet these short-term needs.

23           MR. BOSWELL: Yes. As I mentioned, we've  
24 already made the winter of '99 purchase that we need  
25 this fall. We hope the pricing for the summer of '99

1 will be better than it has been this summer, and we'll  
2 make those purchases.

3 We took some bids during the summer, but the  
4 pricing -- there was available capacity, but we didn't  
5 like the prices, so we're going to go back to that  
6 market. We don't believe we'll have a problem for  
7 2000.

8 MR. HAFF: And these purchases, I guess,  
9 would be a short-term firm --

10 MR. BOSWELL: Yes.

11 MR. HAFF: -- contract?

12 MR. BOSWELL: Yes.

13 MR. HAFF: It's not nonfirm, then.

14 MR. BOSWELL: It is not nonfirm.

15 MR. HAFF: Okay. Does anyone have any  
16 questions for Mr. Boswell?

17 (No response.)

18 MR. HAFF: Thank you. Next I have Kissimmee  
19 Utility Authority. Welcome back.

20 MR. MILLER: Good afternoon. My name is  
21 Robert Miller. I am from Kissimmee Utility Authority.  
22 I don't have a presentation today. And Rick Casey  
23 from FMPA presented most of the information that was  
24 requested, or at least some of the information that  
25 was requested, by Staff.

1           With regard to the database, we also have  
2 problems with our data base. We have temperatures  
3 going back to probably 1970, but they're not  
4 correlated with the peak. We just have maximum and  
5 minimum temperatures for each day, so we're not able  
6 to come up with statistical analyses that would give  
7 us information on megawatts per degree. We are  
8 currently putting that database together so that we  
9 will be able to answer that question in the future.

10           **MR. HAFF:** Okay.

11           **MR. MILLER:** With regard to the questions  
12 relating to the FGT explosion, currently all of KUA's  
13 generation, gas generation, have oil backup. So I can  
14 answer that question, and all the others relating to  
15 price were already answered by Mr. Casey. So if there  
16 are any further questions?

17           **MR. HAFF:** I understand there's firm gas  
18 transportation or firm gas capacity into the Cane  
19 Island site?

20           **MR. MILLER:** Yes.

21           **MR. HAFF:** And that this FGT event was the  
22 first time that gas supply had ever been interrupted  
23 to that site?

24           **MR. MILLER:** Yes, it was. We hope it's the  
25 last.

1           **MR. HAFF:** Any other questions for  
2 Mr. Miller?

3           (No response.)

4           **MR. HAFF:** Thank you. Next up is the City  
5 of Lakeland.

6           **MR. ELWING:** Good afternoon. My name is  
7 Paul Elwing, City of Lakeland.

8           In the interests of time, I don't have  
9 anything add to our ten-year site plan. We'd like to  
10 just leave it as it stands as filed with you all.

11           Lakeland did file comments and responses to  
12 questions from the August 25th workshop. We hope that  
13 they suffice in answering. If you have any questions,  
14 I'm here to respond.

15           **MR. HAFF:** Anyone, any questions for  
16 Mr. Elwing?

17           (No response.)

18           **MR. HAFF:** Okay. Thanks. I like how this  
19 is proceeding. (Laughter) I'm sorry.

20           Orlando Utilities Commission is next.

21           **MR. BLANKNER:** Good afternoon. Matt  
22 Blankner with Orlando Utilities Commission. And also  
23 in the interests of time, I didn't have a full  
24 presentation planned.

25           I wanted to mention briefly that we don't

1 have any planned capacity additions for the ten-year  
2 site plan horizon.

3 The response to the questions regarding the  
4 winter temperature, I haven't submitted those to you.  
5 If you would like, I could give those to you now, or I  
6 could submit them to you before I leave today.

7 MR. HAFF: That will be fine. You can just  
8 give them to me after we're done.

9 MR. BLANKNER: We certainly feel we're going  
10 to meet our reserve margins by a significant amount  
11 through the ten-year site plan for the horizon, so,  
12 therefore, I'll leave it open for any questions  
13 anybody may have.

14 MR. HAFF: Any questions?

15 (No response.)

16 MR. HAFF: Okay. Thank you. Our last  
17 Utility on our list is the City of Tallahassee.

18 MR. FRAZIER: Good afternoon. My name is  
19 Edwin Frazier. I'm an engineer with the City of  
20 Tallahassee Electric Department, and due to the  
21 interests of time, we are not going to do a full  
22 presentation, but highlight on the main capacity  
23 addition as planned during the ten-year period.

24 Okay. We have a proposed power plant that's  
25 a 250-megawatt combined cycle, and has a 39% better



1 heat rate than our system average and also improve the  
2 environmental profile and scheduled to go on line  
3 May 2000. And the plant site is one of our existing  
4 sites at St. Marks. And we're going to replace the  
5 75-megawatt purchase contract currently with Southern  
6 Company.

7           The current status of the proposed plant, we  
8 have met major milestones, such as the needs order was  
9 received in June '97, the siting approval in  
10 April '98, and the final authorization to proceed was  
11 in July '98, and the future targets to be met are  
12 construction mobilization in January of '99 and  
13 in-service date target for May 2000.

14           That's it. If you have any questions, I'd  
15 be glad to respond.

16           **MR. TRAPP:** Can you tell us just out of  
17 curiosity how the -- I'm Bob Trapp from Staff. Can  
18 you tell us how the site fared during the hurricane?  
19 Did you have flooding down there or --

20           **MR. FRAZIER:** I'll let -- .

21           **MR. BYRNE:** I'm David Byrne. I'm chief  
22 planning engineer for Tallahassee, and we didn't run  
23 into any troubles down at the St. Marks site during  
24 this hurricane. Apparently the bulk of the rain  
25 passed to the west of Tallahassee and then north from

1 there. They were concerned and had the -- did shut  
2 down the units early that evening, just in the event  
3 that there was -- might be a flooding problem. But  
4 no, there weren't.

5 MR. HAFF: Are there any questions for City  
6 of Tallahassee?

7 (No response.)

8 MR. HAFF: Thank you.

9 MR. FRAZIER: I would just like to add that  
10 I will respond to the questions about the winter  
11 temperature after the workshop.

12 MR. HAFF: Is that in writing to present to  
13 us?

14 MR. FRAZIER: Yes.

15 MR. HAFF: Okay. Thanks. That's all for  
16 the utility presentations.

17 I understand we have some interested parties  
18 who would like to make some comments on the plans, and  
19 right now we'd like to entertain those comments.

20 In case I neglected to mention, once again  
21 I'd like to make sure everyone has signed the sign-in  
22 sheets at the back door on my side of the room in blue  
23 paper. Make sure everyone is signed in, if you would.

24 MS. SWIM: Hi. I'm Deb Swim and here for  
25 LEAF, Legal Environmental Assistance Foundation, and

1 appreciate your attention. It's quite a long and  
2 grueling day.

3           We're here today because we want to give  
4 some input on your decision as to whether utility  
5 plans for the next decade are suitable or unsuitable,  
6 which is what the statute for ten-year plans requires  
7 you to do.

8           The utilities are proposing to add 8,000  
9 megawatts in new capacity, and we believe that part of  
10 that capacity can and should be postponed by cost  
11 effective investments in DSM, but that that is not  
12 reflected in the plans.

13           We have the following concerns which we  
14 believe should justify a finding of unsuitability:

15           First, Staff and the industrial customers  
16 have stated their concerns about how Florida is  
17 relying too much on load management and interruptible  
18 resources to keep the lights on.

19           We share those concerns and especially  
20 because our heavy focus in Florida on load management  
21 has actually resulted in increased energy consumption.  
22 So we have a situation where what we're supposedly  
23 doing for conservation increases consumption.

24           It's not that it's a bad thing to try and  
25 level the load curve out, but there's a lot more that

1 can be done. And we believe that rather than allowing  
2 utility plans to focus almost entirely on reducing  
3 peaks, which is what the plans before you now do in  
4 the area of DSM, that you should take this opportunity  
5 to encourage utilities to also plan to lower the  
6 entire energy consumption curve.

7           And yesterday in the playground I made a  
8 chart to help illustrate this point. You probably  
9 already know this. This is just a picture of a load  
10 curve. (Indicating) It's not any particular utility  
11 or time; it's just to show that overtime load  
12 increases and decreases.

13           The blue hatched area here and here  
14 generally depicts the effects of current utility DSM  
15 efforts. They reduce the usage at peak and increase  
16 the usage in the valleys.

17           This white striped line shows what would  
18 happen if the Commission were to encourage utilities  
19 to lower the entire energy consumption curve, which is  
20 something we strongly urge you to do so. Lowering the  
21 energy assumption curve as we're suggesting would  
22 address both the liability concerns that we're facing  
23 as a state and conform to legal requirements that  
24 govern this proceeding.

25           In this proceeding you are to review plans

1 in light of the state comprehensive plan, and the  
2 state comprehensive plan has a specific part that  
3 directs a decrease in per capita energy use  
4 consumption.

5 That's just what this white line is, and  
6 something we think is very important to the state.  
7 And we would go so far as to, you know, recommend that  
8 you find the plans unsuitable because of the focus  
9 right now on load management rather than per capita  
10 energy use consumption reduction.

11 We also have some kind of more utility  
12 specific concerns where we believe that utility plans  
13 have underestimated or ignored contributions from DSM.  
14 It varies for each utility, so you'll have to bear  
15 with me a little bit.

16 Florida Power Corporation and Florida  
17 Power & Light both plan no incremental DSM after the  
18 year 2003. That's even RIM based DSM. It's as if  
19 they were going to stop doing DSM after 2003. That's  
20 clearly not an accurate assumption.

21 FPL and FPC are legally obligated to do DSM.  
22 It's required by the Commission's rule and FECA, the  
23 Florida Energy and Conservation Act, and we don't  
24 think it's right for the plans to assume that there  
25 will not be DSM after that time period.

1           TECO didn't assume no incremental DSM after  
2 the goals period of year 2003, but they do plan less  
3 DSM than the Commission's conservation goals that were  
4 set in the last goals proceeding would require.

5           When the goals were set, the Commission in  
6 its order stated that the goals were intended to be  
7 minimum pass-fail goals which must be met to avoid  
8 penalties. And we think a plan that plans to do less  
9 DSM than the Commission's goals require has to by  
10 nature be unsuitable.

11           So those are some concerns we have  
12 specifically about TECO, FPL and Power Corp's plans.

13           We also have, you know, a general concern  
14 which we've expressed a lot to you in the past about  
15 the level of DSM that's going on in the state.

16           In the last goals proceeding you adopted a  
17 policy -- it's in the order -- that you set RIM based  
18 goals and then encouraged utilities to implement TRC  
19 passing DSM that offered high energy savings and low  
20 rate impacts.

21           The utilities have stated that their  
22 planning processes are purely based on RIM. They  
23 don't consider TRC based DSM at all, and so we have a  
24 Commission policy --

25           MS. PAUGH: Excuse me, Ms. Swim. The

1 subject of this discussion has moved very quickly into  
2 subject matter that is within a docketed or for  
3 docketed proceeding. This is not a matter that we can  
4 discuss at this time. We can take it up within those  
5 dockets, but not in this forum.

6 **MS. SWIM:** Well, I feel kind of constrained,  
7 because to me it's part of the ruling on suitability,  
8 which is what's before the Commission here, so I'm not  
9 really sure how to handle it. It's certainly, to me,  
10 relevant in both proceedings.

11 **MS. PAUGH:** Commissioners, I recommend that  
12 we not take any testimony to this effect.

13 **COMMISSIONER DEASON:** As I understand it,  
14 this is a subject matter of a docketed proceeding  
15 which will be coming before the Commission shortly.

16 **MR. BALLINGER:** Yes, sir. Specifically, the  
17 issue of should the utility screen on issues of TRC or  
18 RIM is coming before the Commission in the DSM goals  
19 dockets.

20 **MS. PAUGH:** Our recommendation will be filed  
21 on that very issue based on seven pleadings in the  
22 goals dockets. The rec will be filed for the next  
23 recommendation period. So this is currently pending  
24 before the Commission.

25 **COMMISSIONER DEASON:** What is the time frame

1 for that matter to be heard and the time frame for  
2 determining suitability of the ten-year site plans?

3 MS. PAUGH: The goals proceeding is set for  
4 May of '99.

5 MR. HAFF: We're due to make an ultimate  
6 determination at Internal Affairs on the suitability  
7 of these plans. It's currently scheduled for  
8 November 30th of this year.

9 COMMISSIONER DEASON: Ms. Swim, it seems  
10 that the timing of these matters is such that if we  
11 were to determine plans plan unsuitable based upon  
12 matters which we've not determined yet, it would be  
13 construed as prejudging issues which are going to be  
14 coming before the Commission at a later time. And if  
15 you disagree with that, let me know.

16 MS. SWIM: Well, you know, I do disagree. I  
17 mean, if it's your pleasure not to hear what I have to  
18 say, I'll, you know, certainly stop speaking about  
19 this. But I believe right now you're supposed to be  
20 looking at whether or not the plans are suitable or  
21 unsuitable, and to me that brings up, you know,  
22 looking at this issue.

23 You know, yes, you do get goals, too, but  
24 you can't just say, oh, well, because we set goals, we  
25 can't determine suitability. There's an overlap in



1 issues, that's true, but, I mean, there's overlap in  
2 other areas that have to do with, you know, whether a  
3 plant is needed. I mean, those kind of arguments can  
4 come up too.

5 COMMISSIONER DEASON: I understand, but --

6 MS. SWIM: I'm not pushing this. If you  
7 don't want to hear it, that's okay. I just wanted to  
8 let you know why I felt, you know, it was relevant  
9 here.

10 COMMISSIONER DEASON: And I understand that.  
11 But in an abundance of caution so that we do not  
12 perhaps violate procedure in the other dockets, I'm  
13 going to ask you not to go further with that  
14 particular --

15 MS. SWIM: Okay. I can respect that.

16 So for the reasons I stated before about the  
17 concern with focus on load management rather than  
18 reducing per capita energy use consumption, the  
19 concern about how FPL and FPC have excluded  
20 incremental DSM after the year 2003, and how TECO has  
21 excluded goals level DSM from their planning process,  
22 we think their -- you have in effect an overstatement  
23 of capacity needs because of an exclusion of -- an  
24 underuse of DSM.

25 We also have two additional concerns. One

1 is a concern that you've heard me express before; that  
2 the plans reflect virtually no investment in solar  
3 energy, and I won't go into any further detail about  
4 that because we've talked about it before.

5           And, second, we're concerned because new  
6 capacity seems to be being added without any apparent  
7 consideration of the aging fleet of existing plants.  
8 There are potentially increased maintenance costs, and  
9 there are considerable current and future  
10 environmental costs.

11           Ms. Kamaras is handing out a sheet which  
12 compiles information about the age of the units that  
13 are being -- that are in existence now.

14           You heard today Mr. Wiley for FRCC claim  
15 that the availability of existing units is increasing,  
16 but that's not really true, or certainly is probably  
17 not true for the older units; and this is something I  
18 think you all heard FIPUG's representative discuss.

19           You know, as any machine ages, and of course  
20 as we -- as humans know, as all humans age, we require  
21 more maintenance. And many of the plants that were  
22 built in the 1940s, '50s and '60s, and '70s even, were  
23 originally designed for a 25 to 30-year life. And as  
24 the charts we handed out show you, Florida has a  
25 significant amount of aging capacity, and only a very

1 small fraction of that is proposed for retirement  
2 during the 100-year planning period.

3           So these plants are going to require more  
4 maintenance at a time when utilities are cutting their  
5 costs, including plant and staffing levels. They're  
6 also among the most inefficient and most polluting in  
7 the fleet. And those are some concerns that, you  
8 know, in your review of the state comprehensive plan,  
9 which is, again, required under the ten-year site plan  
10 statute, should be looked at in this proceeding.

11           They cost ratepayers a lot more because  
12 they're fuel inefficient, and they cost Floridians in  
13 direct health and environmental damage, and we'd like  
14 to see some recognition of the need to retire these  
15 plants.

16           **COMMISSIONER JACOBS:** How would you replace  
17 that low?

18           **MS. SWIM:** How would I what?

19           **COMMISSIONER JACOBS:** As I understand what  
20 you're saying is that you anticipate that would be a  
21 higher retirement of older plants over the planning  
22 cycle than anticipated. How would you would replace  
23 the low that they represent?

24           **MS. SWIM:** Well, we would replace it first  
25 with cost effective, least cost DSM to be followed by

1 least cost supply option, which I think most folks  
2 thinks these days would be a natural gas unit.  
3 Whether it's combined cycle or CTU would depend on  
4 whether it was a base load or a peaking kind of need.  
5 But I think that would probably be the -- you know,  
6 I'd like to throw in some solar, too.

7           But the newer natural gas plants, and the  
8 newer plants generally, even a newer coal plant, they  
9 meet much more stringent emission standards than the  
10 older plants. These older plants, when the air  
11 pollution laws were adopted, they got exempted with  
12 the idea that they were going to retire in 25 or  
13 30 years; and it's been 25 or 30 years and they  
14 haven't retired, and they're still clunking along with  
15 the larger, much larger emissions that are permitted  
16 under the federal Clean Air Act.

17           **COMMISSIONER DEASON:** Does that conclude  
18 your comments?

19           **MS. SWIM:** Yes.

20           **COMMISSIONER DEASON:** Questions?

21           (No response.)

22           **COMMISSIONER DEASON:** Thank you.

23           (Brief recess.)

24           **CHAIRMAN JOHNSON:** If everyone could be  
25 seated, we're going to continue the workshop.

1 Ms. Elder?

2 MS. ELDER: Thank you, and good afternoon.  
3 For the record, my name is Marcia Elder and I'm  
4 representing the American Planning Association,  
5 Florida Chapter, and the Project for an Energy  
6 Efficient Florida.

7 In addition, I have been asked to present  
8 comments on behalf of a range of other organizations  
9 whose members also care about these issues in the  
10 context of Florida's energy future. We and they  
11 appreciate the opportunity to offer our conclusions  
12 and recommendations for your consideration.

13 I'll begin with the group statement, which  
14 is presented on behalf of the League of Women Voters  
15 of Florida, the American Lung Association of Florida,  
16 the Florida Consumer Action Network, Common Cause of  
17 Florida, the League of Conservation Voters, Florida  
18 Legal Services, the Cross Creek Initiative, the  
19 Florida Catholic Conference, the Presbyterian Caring  
20 for Creation Coalition, the Florida Public Interest  
21 Research Group and the Sierra Club, Florida Chapter,  
22 in addition to our organizations and the Legal  
23 Environmental Assistance Foundation.

24 The statement reads: "The planning process  
25 for meeting Florida's energy needs has substantial

1 bearing on the energy sources that we use, how much  
2 that energy costs, the siting of energy facilities,  
3 and reliability of energy services. As such, it  
4 impacts the environment, public health, the economy,  
5 and the disposable income of consumers, and it thereby  
6 affects all Floridians.

7           The undersigned organizations, representing  
8 thousands of Floridians who care about the future of  
9 our state, want that process to provide for clean and  
10 safe alternative energy sources.

11           Absent a timely transition to renewable  
12 energy, Florida cannot be sustainable for the long  
13 term, yet the proposed ten-year site plans for  
14 electric utilities reflect no plans for renewable  
15 energy sources and a limited role for energy  
16 efficiency.

17           This concerns us greatly, and we are  
18 troubled that despite many compelling reasons for  
19 change, Florida continues an almost exclusive reliance  
20 on fossil fuels and nuclear power. We do not object  
21 to building new power plants where they are needed.  
22 To the contrary, we all enjoy the benefits of electric  
23 power and appreciate the importance of electric  
24 utilities in our society.

25           However, as the consumers who pay for

1 whatever plants are built, we worry about proposals to  
2 significantly increase utility generating capacity,  
3 and particularly when demand side management  
4 alternatives that cost less than building new power  
5 plants are readily available.

6 Conservation and efficiency are also a way  
7 to avoid pollution, which is vitally important from  
8 the standpoint of human health and the health of our  
9 ecosystems. The use of such practices and  
10 technologies is good for the economy as well.

11 We are pleased that the utility plans as a  
12 whole emphasize natural gas as a fuel choice over  
13 other conventional energy options that are far more  
14 polluting and less efficient. We further believe that  
15 a capacity additions utilizing natural gas should  
16 replace dirty and inefficient plants that are aging  
17 and warrant retirement.

18 Floridians want clean, sustainable energy  
19 for our future and that of generations to come. We  
20 are entering a new millennium, and energy decision  
21 making that affects the public and our quality of life  
22 must keep pace with changing times. Towards that end,  
23 we urge that the Florida Public Service Commission  
24 call on Florida utilities to amend their plans in  
25 accordance with these needs and concerns. The future

1 of all us and those we care about depends upon your  
2 action.

3           We have written statements, which we'll  
4 provide to you, and we have some additional comments  
5 as well, but that concludes the group statement. And  
6 I do want to mention that one of the groups that I  
7 listed verbally was inadvertently not listed on the  
8 written copy, so you'll notice that.

9           As you know, since you had a representative  
10 on their energy advisory committee, the Governor's  
11 Commission for a Sustainable South Florida, which was  
12 a very diverse group of leaders and experts from the  
13 public and private sectors, devoted better than a year  
14 and a half to examining energy issues of importance to  
15 our state.

16           The committee concluded from the onset that  
17 the issues they would be addressing and the  
18 recommendations they were to develop would not only be  
19 pertinent to south Florida, but instead to all of  
20 Florida. Their findings and recommendations were wide  
21 ranging, two of which have special relevance here.

22           First, they concluded that Florida is not  
23 energy sustainable on our current path, and that we  
24 cannot be sustainable without making the transition to  
25 renewable energy resources.



1           They further concluded that the Public  
2 Service Commission has a critical role to play in  
3 assuring that this transition occurs, and they  
4 acknowledge that it takes years to make the shift in  
5 facilities, equipment, procedures, consumer habits and  
6 so forth, so we need to start now.

7           For these reasons and given the many  
8 benefits of renewables, as we have testified on before  
9 this body on numerous occasions, we are especially  
10 disappointed to see no plans for renewable  
11 technologies via the 10-year utility plans.

12           Secondly, the Governor's commission stressed  
13 the importance of energy planning as being the pivotal  
14 ingredient to achieving desired outcomes for our  
15 state. As part thereof, their number one  
16 recommendation called for the development of a state  
17 energy plan to map out where Florida wants and needs  
18 to be energy wise, in addition to strategies and  
19 priorities for getting there.

20           As they found in their deliberations, energy  
21 decision making is currently fragmented and piecemeal,  
22 and absent a clear decisive path for our energy  
23 future, the path we take is random, and the potential  
24 consequences are substantial.

25           Unfortunately, funding for that plan was

1 killed in the last legislative session, and no offense  
2 intended to participants here today, but it was killed  
3 due to the intense opposition of the utility industry  
4 lobbyists who said that they were comfortable with the  
5 status quo and did not want to see any changes that  
6 might occur as a result of a plan.

7           But the fact is that we are in a time of  
8 incredible change where a fundamental ability  
9 important for decision makers at all levels, both  
10 public sector and private sector, is adaptability  
11 coupled with the courage to risk taking a new  
12 discretion.

13           To walk a steady path in the face of  
14 changing ground and to have the vision and foresight  
15 to do so well is, in our view, an integral part of  
16 what leadership is all about.

17           To pretend that the times are not  
18 'achanging, as some have when red flags abound, is  
19 akin to presuming an endless ascent into the stock  
20 market, even though signals were many and varied that  
21 9300 points on the Dow was pushing the heads of -- the  
22 edge of the proverbial envelope, and just like the  
23 influence there of the Asian crisis, the Russian  
24 ruble, and so forth.

25           The Parade Magazine front page feature this

1 summer, that hopefully all of you saw, spotlighted one  
2 of the major -- one of the many red flags in the  
3 energy market versus the stock market pointing in that  
4 case to what has become the unthinkable to the vast  
5 majority of people; that being the prospects for  
6 serious oil crises in the not too distant future,  
7 complete with gas lines, price spikes and an array of  
8 other disruptive impacts.

9           It's unthinkable, because energy is off the  
10 radar screen for the general public. But regardless,  
11 as the writers of this article observed, the problems  
12 are nonetheless real and growing, which to use another  
13 current metaphor, like the Titanic, it makes the  
14 situation all the more dangerous, whether due to  
15 foreign oil politics or due to growing energy demand  
16 of developing countries or the miniscule alternative  
17 energy infrastructure now in place and being planned  
18 for.

19           So it's time for us to pay attention to the  
20 signals and to begin the capital and time intensive  
21 process, including the significant lead time required,  
22 of positioning our state for the future and a future  
23 where the environment, the economy and our quality of  
24 life are sustainable.

25           We do appreciate the focus of Staff.

1 Indeed, it is your statutory responsibility to provide  
2 for system reliability, but you can't have reliability  
3 over the long haul without renewable energy.

4 Speaking of the law, the Florida Statutes  
5 compel state policy makers and policy implementers to  
6 make that shift. Citing several examples under  
7 Chapter 186, Section 186.801, the Commission is called  
8 upon to review possible alternatives to the proposed  
9 plans, the relationship of the plans to energy  
10 availability and consumption and, as Ms. Swim  
11 indicated, the extent to which the plans are  
12 consistent with the state comprehensive plan.

13 But when you look at the state comprehensive  
14 plan, the singular goal under energy is to reduce  
15 energy requirements through enhanced conservation and  
16 efficiency while at the same time increasing the use  
17 of renewable energy resources. That's the singular  
18 energy goal in the state comprehensive plan.

19 The policies call for continuing to reduce  
20 the per capita energy consumption in the utility  
21 sector, to reduce the need for new power plants, and  
22 to promote solar technologies and other renewables.  
23 So it goes without saying that these plans are not  
24 consistent with the state comprehensive plan as  
25 required by the law.

1 Chapter 366, as governing the PSC concerns,  
2 specifically calls -- or says that reduction in the  
3 growth rates of the electric consumption and weather  
4 sensitive peak demand are of particular importance to  
5 our state, and it goes on to say that the Legislature  
6 intends that the use of solar energy and renewable  
7 energy will be encouraged for Florida.

8 The state energy policy under Chapter 377  
9 says that the state will discourage all forms of  
10 energy waste, that we will encourage alternative  
11 energy sources, and particularly renewable energy  
12 resources, and that we will consider -- or that the  
13 state will consider in its decision making the social,  
14 economic, and environmental impacts of energy related  
15 activities so that the detrimental effects of these  
16 activities are understood and minimized. These  
17 policies were set to be observed by all state agencies  
18 in their decision making processes.

19 In addition to the statutes, the public  
20 opinion polls also compel such action. And from the  
21 standpoint of a growing number of religious  
22 institutions, since I mentioned those in our group  
23 statement, they have over recent years taken a strong  
24 interest in the environment and earth stewardship  
25 because they view it as an ethical responsibility

1 toward all of us here and toward generations to come.

2           But regardless of any of our personal or  
3 business perspectives or motivations, the reasons for  
4 taken a new path are many, and the benefits of doing  
5 so accrue to all of us, including the utilities, which  
6 leads us to the solid conclusion that it's time to  
7 challenge the utilities as the Governor's commission  
8 did; to step up to the plate and be a part of the  
9 solution for the good of the whole.

10           As always, we very much appreciate the  
11 opportunity to appear before you and we urge your  
12 favorable consideration of these concerns. Thank you.

13           **CHAIRMAN JOHNSON:** Any questions?

14           (No response.)

15           **CHAIRMAN JOHNSON:** Thank you, Ms. Elder.

16           Mr. Moyle?

17           **MR. MOYLE:** Thank you, Chairman Johnson.

18           For the record, my name is Jon Moyle with the law firm  
19 of Moyle, Flanigan, and I appear before you today on  
20 behalf of U.S. Generating Company.

21           I know the hour is getting late, and I have  
22 a few brief remarks that I'd like to share with you  
23 and read a statement to you on behalf of the company.

24           There's been much discussion recently in the  
25 state of Florida about the state experiencing a robust

1 competitive wholesale market for electric energy and  
2 capacity. Gulf Power recently indicated that it  
3 intends to issue a request for proposals pursuant to a  
4 PSC rule, Rule 25-22.082, for competitive bids to meet  
5 Gulf's next plan generating requirements.

6 Remarkably it should be noted that this is  
7 the first time that this rule, commonly referred to as  
8 the competitive bidding rule, has been used since it  
9 was adopted by the Commission in 1994.

10 U.S. Generating is of the belief that a truly robust  
11 competitive market cannot be achieved unless all  
12 electric energy providers, investor-owned utilities,  
13 municipalities, cooperative, and independent power  
14 producers can compete on a level playing field.

15 This will not happen until and unless  
16 restructuring or reregulation is implemented in  
17 Florida; that is until wholesale energy providers can  
18 compete head to head on a market priced basis.

19 I would note that the Commission by its  
20 adoption of the so-called competitive bid rule has  
21 expressed support for competition in the wholesale  
22 electric marketplace, allowing independent power  
23 producers such as my client, U.S. Generating, to  
24 competitively bid projects apparently not covered by  
25 the competitive bidding rule, will further the goal of

1 a competitive wholesale market in the state.

2 For instance, it's unclear whether the  
3 present rule applies to quote, unquote, "repowering  
4 projects," such as the one that FPL is proposing for  
5 its two existing steam units in Fort Myers.

6 FP&L's ten-year site plan states that  
7 approximately, and I quote, "837 megawatts of new  
8 generating capacity will result from this project,"  
9 end quote. Rather than just accepting that these  
10 repowering projects will give ratepayers the best  
11 deal, until such time as competitive reregulation  
12 comes to Florida, the competitive bid rule should be  
13 employed as the already approved mechanism of assuring  
14 ratepayers the least cost alternative.

15 U.S. Generating looks forward to discussing  
16 this and other issues with the Commission so as to  
17 ensure the existence and furtherance of a truly  
18 robust, competitive wholesale market in Florida.

19 That concludes the prepared statement. I do  
20 have a couple of thoughts, that if you would bear with  
21 me just for a couple of minutes, I'd like to share  
22 with you.

23 This forum, as I understand it, is pursuant  
24 to statute called a ten-year site plan, and it's a  
25 time when we look sort of in the future, and utilities



1 come forward with their plans, and just by the very  
2 nature, I think it's sort of expansive of, you know,  
3 what does the future hold.

4           We all know that things are changing in the  
5 electric industry, and this forum, which is charged  
6 with looking 10 years out, I think is a good time for  
7 folks like U.S. Generating to come forward and to talk  
8 about the changes in how we believe things can be  
9 better by instilling some additional competition.

10           I found it interesting that, you know, you  
11 had a large consumer of electricity, a customer, and a  
12 large employer of a number of Floridians here today  
13 tell you that their business operations were  
14 interrupted 10 or 11 times in one month and that that  
15 was a hardship on them, and they were asking, as I  
16 thought I understood it, for some kind of relief.

17           I think that we need some additional  
18 capacity in Florida and that folks like my client  
19 ought to be able to step up to the plate and to  
20 provide that capacity in a way that doesn't put  
21 ratepayer dollars at risk. If we can finance it and  
22 we can build it and whatnot, I think we ought to be  
23 given that opportunity.

24           Just concluding, it struck me after hearing  
25 the comment from the gentleman from IMC-AGRICO that,

1 you know, Florida is a great state, and we've done  
2 well throughout the years because of our location, our  
3 geography, the sunshine of attracting a lot of people  
4 here and a lot of businesses; but it's becoming more  
5 and more competitive in that regard.

6           The Mercedes-Benz plant, a couple years ago  
7 there was a lot of Competition as to where to locate  
8 that plant, and I think South Carolina won. But in  
9 the south, you know, industry is sought after. I  
10 would think that if an industry today is looking  
11 around as to where to locate, that if they were here  
12 today and heard the comments from a large electric  
13 user that they did not enjoy a steady, dependable  
14 source of energy, that that would be of concern to  
15 them.

16           And as Ms. Elder pointed out, you have the  
17 Sustainable South Florida Commission and they've kind  
18 of charged you all with setting forth the policy, the  
19 energy policy for the state. And we would urge you as  
20 you go forward and as the electric market changes, to  
21 look at these things and to be progressive in your  
22 thoughts and your actions as we go forward.

23           And we look forward to continuing this  
24 dialogue, and thank you for bearing with me at the end  
25 of a long day. Thank you.

1           **CHAIRMAN JOHNSON:** Thank you, Mr. Moyle.

2 Any questions?

3           (No response.)

4           **CHAIRMAN JOHNSON:** Thank you for your  
5 presentations. Staff?

6           **MR. HAFF:** I just wanted to give a summary  
7 of the time lines we have for the review of the  
8 ten-year site plans.

9           As I answered Commissioner Deason before,  
10 we're currently set to have this review -- I guess it  
11 will be a draft -- for consideration at the Internal  
12 Affairs on November 30th.

13           Statutory requirements call for this report  
14 to be sent to DEP by December 31st. So that's the  
15 last activity I guess we have on this case until we go  
16 to Internal Affairs.

17           **MR. BALLINGER:** I'd like to add to that,  
18 too, for Ms. Swim, Ms. Elder and Mr. Moyle, if you  
19 have written comments you want to submit to Staff, get  
20 them to us as soon as you can so we can include them  
21 in the report; because even though Internal Affairs is  
22 November 30th, that probably means end of September we  
23 have to file it, by the time we get copies. I'm not  
24 sure, but we have quite a bit of time in there that we  
25 need to file it ahead of that, so we need those as

1 soon as possible.

2           **CHAIRMAN JOHNSON:** Is that it?

3           **MR. HAFF:** Yes.

4           **CHAIRMAN JOHNSON:** With that, this workshop  
5 is adjourned. Thank you.

6           Staff, as usual, excellent job.

7           (Thereupon, the workshop adjourned

8 at 3:40 p.m.)

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1 STATE OF FLORIDA)  
2 COUNTY OF LEON )

## CERTIFICATE OF REPORTER

3 I, H. RUTHE POTAMI, CSR, RPR Official  
4 Commission Reporter,

5 DO HEREBY CERTIFY that the Ten-Year Site  
6 Plan Workshop, undocketed, was heard by the Florida  
7 Public Service Commission at the time and place herein  
8 stated; it is further

9 CERTIFIED that I stenographically reported  
10 the said proceedings; that the same has been  
11 transcribed under my direct supervision; and that this  
12 transcript, consisting of 173 pages, constitutes a  
13 true transcription of my notes of said proceedings.

14 DATED this 24th day of September, 1998.

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