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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
COMMISSION WORKSHOP
UNDOCKETED

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

_____ /

COMMISSION WORKSHOP

The above-entitled matter came on to be heard
before the Florida Public Service Commission, Honorable
SUSAN CLARK presiding as Chairman, at Room 148, the Betty
Easley Conference Center, 4075 Esplanade Way, Tallahassee,
Florida, on the 16th day of August, 1996, commencing at
approximately 9:40 a.m.

Reported by:
RAY D. CONVERY
Court Reporter

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P R E S E N T

SUSAN CLARK, Chairman

JOE GARCIA, Commissioner

JULIA JOHNSON, Commissioner

TERRY DEASON, Commissioner

DIANE KIESLING, Commissioner

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P R O C E E D I N G S

1
2 COMMISSIONER DEASON: If I can have everyone's
3 attention, please, we'll call the workshop to order and
4 ask you to take your places. We will begin by having
5 the notice read.

6 MS. ERSLING: This time and place was noticed for
7 the Commission workshop on the ten -- electric utility
8 ten-year site plan. The purpose is the Florida Public
9 Service Commission has jurisdiction over the
10 determination of overall suitability of ten-year site
11 plans pursuant to Chapter 95-328, 1995 Laws of Florida,
12 effective July 1, 1995. The purpose of this workshop
13 is to afford an opportunity for public comments on the
14 ten-year site plans submitted by Florida's electric
15 utilities. At the workshop, the utilities will
16 describe their plans, the key assumptions underlying
17 the plans, and the impact of demand side management
18 goals on the plans.

19 COMMISSIONER DEASON: Okay. Thank you.

20 I'd like to take this opportunity to welcome
21 everyone to the workshop today. There is an agenda
22 that has been prepared. Obviously, I am not Chairman
23 Clark. She is not with us at the moment. She does
24 plan to join us a little bit later. She did recognize
25 she had 15 minutes on the agenda. So she gave me a

1 speech to read, but she told me I could dispense with
2 it if I wanted to, so I will. I'm just kidding. She
3 really did not have any formal comments, and neither do
4 I other than to welcome you to this workshop today.

5 We are not going to take appearances, but this
6 workshop is being recorded by a court reporter.
7 Therefore, it is necessary for you to identify
8 yourself. If you make a presentation, please identify
9 yourself before you make a presentation. If anyone has
10 any questions, please identify yourself before you ask
11 your question. There is a remote microphone that is
12 available for those who are seated in the audience who
13 wish to avail themselves of that, and there are plenty
14 of empty seats and microphones available at the front
15 as well.

16 We certainly are glad that you are here and
17 encourage your participation. That is what this
18 workshop is all about. We have had a few logistic
19 problems as far as some of the equipment with the
20 presentations and overheads. It may be necessary at
21 some point to take a break and allow some of those
22 problems to be addressed, but I think basically we are
23 ready to begin, and with that, I'm going to turn it
24 over to staff to take it from this point.

25 MR. HAFF: Thank you. I'm Michael Haff. I'm

1 with the Commission's staff, and today we will be
2 hearing brief presentations from each of the utilities
3 that filed ten-year site plans.

4 The first presentation we'll hear is from the
5 Florida Coordinating Group, and Tom Hernandez, who is
6 the manager of the Generating Task Force of the FCG
7 will be giving that presentation; but before we begin,
8 I just want to ask that, if there are questions that
9 are specific to a particular utility's plan, then we
10 will have an opportunity after each utility has given
11 their brief presentation to ask those questions.
12 Otherwise we have reserved time this afternoon for
13 comments of a general nature.

14 Before we start, I just wanted to -- Todd Borman
15 is passing out something that the staff has put
16 together just to aide the Commissioners in
17 understanding the presentations you're going to hear
18 today, and it relates to the fuel prices. Fuel prices
19 are the single most important factor that affects the
20 type of unit that a utility builds in their plan, and
21 as I said, to assist you with understanding why
22 utilities have certain units in their ten-year site
23 plan, this will just assist you to give you kind of an
24 overview of the fuel price and how that drives the unit
25 choice.

1 And with that, I guess we can start with Mr.
2 Hernandez.

3 MR. HERNANDEZ: Good morning, Commissioners. My
4 name is Thomas Hernandez. I'm the Director of Resource
5 Planning at Tampa Electric Company, but this morning
6 I'm going to represent the Generating Task Force of the
7 Florida Coordinating Group.

8 I'm going to present a very brief overview of the
9 1996 FCG ten-year plan that was prepared earlier this
10 year. I've left copies of the presentation on either
11 side of the room, and I believe each of the
12 Commissioners should have a copy as well. I'm not
13 going to go through all the pages that are in the
14 handout, just to be brief. I'll try to hit the
15 highlights.

16 This is a graphic illustrating the projects for
17 firm peak for peninsular Florida, and so it accounts
18 for all the conservation and load management and
19 interruptible customer load reductions, and this is the
20 basis for planning new resource in Florida. And what
21 we're showing here is very similar to what we showed
22 last year for both the winter and summer firm peak.
23 We're still indicating that we are a winter-peaking
24 system for peninsular Florida, but we can have
25 excursions, as shown in the history. You can note the

1 excursion in the 1989 winter, the Christmas freeze, the
2 high increase in the winter peak. We do not forecast
3 weather excursions. We do that on a normalized weather
4 basis. This is very consistent to what you saw last
5 year.

6 As -- excuse me. As I just mentioned, the
7 conservation and load management self-service
8 cogeneration qualifying facilities have a significant
9 impact in terms of reducing the total demand for
10 peninsular Florida, showing the values expected for
11 this upcoming '96-'97 winter, and out after ten years
12 what we expect to see, almost a 50 percent increase in
13 the curtailable load or interruptible load; and, again,
14 that helps to defer the addition of new generating
15 plant in the state.

16 A similar story for the energy reduction in
17 peninsular Florida, primarily driven by the
18 self-service cogeneration, as well as the conservation
19 effort. There is very little energy reduction
20 associated with interruptible load and load
21 management.

22 Just a quick look at where the generating --
23 installed generating capacity is in the state. The
24 three investor-owned utilities for peninsular Florida
25 comprise approximately 78 percent with the balance with

1 municipal systems, cooperatives and other smaller
2 utilities.

3 A quick look at the resource mix for peninsular
4 Florida. This includes firm purchased power as
5 available power. Again, the conservation effects, the
6 load management, interruptible load, and the firm
7 purchases from non-utility generators. We're showing
8 that approximately 83, 84 percent of the generation or
9 energy sources will be provided by self-owned/installed
10 generating capacity in peninsular Florida.

11 This next graphic is generation by fuel type on a
12 gigawatt-hour basis. Looking at it in 1996, we see the
13 emergence of a new fuel type, petroleum coke, and going
14 out looking at in ten years the impact of petroleum
15 coke and orimulsion, primarily on the Tampa Electric
16 and the Florida Power & Light systems, but contributing
17 close to six and a half percent of the energy needs
18 for peninsular Florida.

19 COMMISSIONER DEASON: Let me ask you a question.
20 The orimulsion percentage for 2005, is that -- was that
21 projection made before or after the decision recently
22 made by the Governor and Cabinet?

23 MR. HERNANDEZ: It was made before. I believe
24 Florida Power & Light's planning process was --
25 occurred well before the April, 1996, filing of the

1 ten-year site plan. So in their ten-year site plan
2 that was filed, that was included as projected fuel.

3 This next chart is a graphic illustrating the
4 incremental resource mix over the next ten years for
5 peninsular Florida, showing about 43 percent of
6 combined cycle capacity, most of that fired by natural
7 gas or syngas, as well as distillate oil as a backup
8 fuel. You see a fairly good contribution for the
9 conservation, about 27 percent, on load management,
10 interruptible load and the balance of conservation
11 programs.

12 A quick look at the projected firm peak, winter
13 reserve margins for peninsular Florida. We see a
14 decline in the reserve margin over time but we're still
15 at or above 15 percent on a firm basis. And, again,
16 looking at the planned capacity additions of combustion
17 turbines and combined cycle units, those have
18 relatively short lead times for construction and for
19 planning purposes, and there is significant siting
20 capacity that's already been developed or under way.
21 So we feel like, from a reserve-margin standpoint,
22 that we're in good shape for peninsular Florida.

23 And the last graph I'll show is the relative
24 change in the firm peak winter reserve margin compared
25 to last year's ten-year site plan to this year's

1 ten-year plan aggregate, and we see a slight decrease
2 in the 1996 plan that was compiled, but, however, as I
3 just stated, we're still at or well above the 15
4 percent planning margin criteria, and that's not the
5 planning margin criteria for each of the utilities, but
6 that is a benchmark that SERC and other reliability
7 regions have looked at.

8 And that's the end of my presentation, if you have
9 any questions.

10 COMMISSIONER DEASON: Questions for Mr. Hernandez?

11 MR. HERNANDEZ: Thank you.

12 COMMISSIONER DEASON: Okay. Thank you.

13 MR. HAFF: Okay. We can go ahead and start with
14 the individual utilities' presentations of their
15 ten-year site plan, and first we'll hear from Florida
16 Power & Light Company.

17 MR. ADJEMIAN: Good morning. My name is Bobby
18 Adjemian. I am the Manager of Resource Planning for
19 FPL, and my presentation this morning will cover
20 briefly the 1996 ten-year site plan. I'd like to add
21 here that the presentation you're seeing and the
22 elements of this plan are the results of studies that
23 were conducted about a year ago. Tom alluded to that,
24 following up to your question. So those types of
25 studies are currently under way, and some of these

1 elements may be modified depending on what the
2 conclusion of the studies will show.

3 I'll skip to page 2. The 1995 site plan had
4 presented a need for new capacity in the year 2004, but
5 there have been several key assumption changes. Our
6 load forecast came in slightly higher. The
7 availability -- which caused the need to move up in
8 time. The availability of our units through better
9 management of scheduled outages was able to push the
10 need back a little bit, and finally, in trying to
11 reflect in a more conservative manner the increased
12 accessibility of the transmission system, we decided to
13 restrict the amount of transmission capacity, and that
14 tended to move the need up again. The net effect of
15 all these changes has been to move the capacity need
16 for Florida Power & Light to 2005.

17 COMMISSIONER DEASON: I'm sorry, what was it
18 before?

19 MR. ADJEMIAN: 2004.

20 The major elements of the resource plan over the
21 next ten years as presented in that report is --
22 consists of supply-side additions totalling 1690
23 megawatts and then demand side management additions
24 totalling 1225 megawatts.

25 On the next page you see a distribution of the

1 1690 megawatts of supply-side additions over the next
2 ten years. You see 2003 being the new need date, and
3 at this point we're showing that that need will be met
4 with a capacity purchase -- a short-term purchase.
5 Following that, we're showing the proposed construction
6 of the two combined cycle units in our Martin plant.

7 The 1225 megawatts of DSM is the amount that was
8 ordered -- as ordered by the Commission to Florida
9 Power & Light to achieve for DSM programs and as was
10 filed and approved by the Commission, is -- are the
11 targets that you see here on the cumulative basis, on a
12 year-by-year basis.

13 The resulting plan produces a fuel mix that --
14 about the only thing here I could point out is that we
15 are achieving an increased diversification -- we're
16 hoping to -- and reducing reliance on oil primarily by
17 committing into the orimulsion fuel.

18 COMMISSIONER DEASON: I'm going to ask you the
19 same question. I mean, I know it's early in the
20 process after the decision. Do you have any
21 preliminary estimates of what the fuel mix is going to
22 be, assuming orimulsion is not available?

23 MR. ADJEMIAN: Commissioner, you can assume that
24 all that would come from oil if orimulsion is not
25 approved. FPL, however, is still optimistic that that

1 would be a project that will eventually be approved, we
2 think, you know, as to the best interests of our
3 customers.

4 The resulting reserve margin for the summer shows
5 a declining trend but still above the 15-percent level,
6 which is one of our reliability criteria for the
7 summer.

8 This concludes my presentation, if you have any
9 questions.

10 COMMISSIONER DEASON: What about the
11 winter margins?

12 MR. ADJEMIAN: The winter reserve margin comes in
13 a little lower. It is a -- long term, about 12
14 percent. That is not one of our criteria. Florida
15 Power & Light -- the Florida Power & Light system is
16 stressed primarily in the summer, and that's due to the
17 long, extended peak duration, as opposed to the winter
18 when we usually experience a peak demand that lasts
19 maybe two hours and -- which is usually the result of a
20 cold front as well, and allows for interchange power to
21 take place and be able to share into reserves of other
22 utilities and helps meet that demand.

23 Additionally, in the winter, our power plants have
24 typically exhibited higher capabilities because of the
25 ambient temperatures, and that's another way of meeting

1 the winter. So even though the reserve margin appears
2 numerically to be somewhat low, it's not a significant
3 issue for FPL as compared to the summer.

4 MR. HAFF: Before we leave that point, I have a
5 question about that graph you just had up there. Now,
6 in one of the ways you addressed the concern of the low
7 winter reserve margin in the out years was by relying
8 more on interchange, is that correct?

9 MR. ADJEMIAN: Somewhat, yes, yes.

10 MR. HAFF: I guess -- help us with -- I have this
11 concern that, if you're relying on interchange at a
12 time, due to cold weather, that every other utility in
13 the state will also be relying on interchange, and
14 further, I guess you'd be buying from Southern, they
15 would not -- if they're having a cold front, would they
16 have the excess capacity to sell you during those
17 critical times?

18 MR. ADJEMIAN: Yeah. What we have found in the
19 past -- because that has happened several times in the
20 winter -- we do experience -- although not year in,
21 year out, but we do get some cold, like this last
22 winter that we had. Typically it is a -- it's a cold
23 front, and the cold front is not that -- geographically
24 speaking, it doesn't cover a very large region. So
25 typically what happens is we -- as the cold front comes

1 down into the state, we end up -- the pattern is we end
2 up selling power early to the north, like, for example,
3 places like maybe Tampa Corporation or even Southern
4 Companies, and then later on turn around and we buy it
5 back from them because we experience the cold. So that
6 seems to be -- it has worked in the past pretty well.
7 So hopefully we'll continue doing that and -- unless
8 we get some massive cold that covers everything, but
9 that has not really happened. I mean, if it has
10 happened, maybe it was in 1989. It's not something
11 that happens maybe more than once in a long, long
12 period of time.

13 MR. HAFF: Thank you.

14 MR. ADJEMIAN: Sure. Any other questions?

15 COMMISSIONER DEASON: The firm capacity purchases
16 which are shown for 1996, 456 megawatts --

17 MR. ADJEMIAN: Yes.

18 COMMISSIONER DEASON: -- what does that
19 represent?

20 MR. ADJEMIAN: The 456 megawatts consists of three
21 QF contracts, the Indiantown contract, which is a
22 330-megawatt coal-fired unit. That's already in
23 operation. So that 300 is part of the 456. The
24 remaining amount consists of two contracts. One is in
25 Ocuola (phonetic) -- I'm sorry -- Okeelanta and the

1 Osceola facilities of -- consisting of -- summing up to
2 about 120 megawatts, and those are currently in test
3 operation, and by contract they are supposed to be on
4 line by January 1st of '97. So -- but we expect
5 they'll probably be on line before then for commercial
6 operation.

7 COMMISSIONER DEASON: You do expect them to meet
8 those dates?

9 MR. ADJEMIAN: Right, yes, we are. They've been
10 in commercial test -- in test mode since November of
11 last year, so --

12 COMMISSIONER DEASON: Further questions?

13 MR. WRIGHT: I have a few.

14 COMMISSIONER DEASON: Please identify yourself.

15 MR. WRIGHT: Sheff Wright with the Landers &
16 Parson law firm, appearing on behalf of Lee County,
17 Florida.

18 Mr. Adjemian, it's Lee County's understanding that
19 FPL has not evaluated the cost effectiveness of its DSM
20 program since 1993. If this is correct, I'd appreciate
21 your confirming it, and if it's not, I'd appreciate
22 being straightened out; and then if it is correct, I'd
23 ask when FPL plans to reevaluate the programs based on
24 current avoided costs?

25 MR. ADJEMIAN: Yeah, you're understanding is

1 correct. It's a 1993-'94 -- just prior to the goals
2 docket was the last time that we analyzed the cost
3 effectiveness in full detail. Of course, following
4 that, what happened is we had -- you know, we were
5 waiting for the Commission to review the entire and
6 complete the entire docket proceedings and issue an
7 order, which I think was at the end of -- close to the
8 end of 1994, and then in 1995, FPL, pursuant to the
9 order and the targets, filed for specific programs to
10 meet those targets. Those were -- those were finally
11 approved late last year, I think around November. So
12 this year we basically started rolling out the programs
13 and we're beginning to put them in place.

14 So the next time -- to answer your second part as
15 to why or when we're going to reevaluate those,
16 currently we're taking a look at the -- at those DSM
17 programs and -- but, as to whether we're going to and
18 what extent we're going to do the review, that's not
19 yet decided because, as I said, the process is somewhat
20 -- as you've heard, the process is somewhat lengthy,
21 and to try to change and stop and change and reanalyze
22 and start again may not be really a practical thing to
23 do. So we need to -- we'll have to decide -- we'll
24 have to see how far we can -- or how long we'll have to
25 wait before we complete the study or the reevaluation

1 of the cost effectiveness of these programs.

2 MR. WRIGHT: I have a second question relating to
3 FPL's evaluation of potential purchased power
4 options. It has been my understanding that FPL, in its
5 planning processes with regard to unspecified future
6 purchases, generally evaluates such purchases based on
7 avoided costs of FPL's best self-build option. Is that
8 still correct?

9 MR. ADJEMIAN: The unspecified purchase that I'm
10 showing in this resource plan is based on specific
11 offers that were provided to FPL by power suppliers
12 which indicated that, for that time frame, there would
13 be capacity that would be available to FPL that -- at
14 terms that would be favorable to FPL. Specifically the
15 purchase that we're showing here is what we would call
16 a seasonal purchase. We would buy maybe one or two
17 months in the winter and then again maybe three or
18 four months during the summer period, and apparently
19 the suppliers feel that that's available. The costs
20 seem to be in line. We have not done and we will not
21 do that type of an analysis until we're ready to commit
22 to a purchase, which we're not ready yet, but we have
23 to compare that against the construction of a plant
24 that would carry a cost, of course, year round.

25 So -- I mean, giving you a lengthy answer here,

1 but eventually we'll be -- I'm not sure -- there would
2 be an economic evaluation performed to find out which
3 particular short-term purchase we'd commit to, but
4 right now we feel comfortable that that level of
5 purchased capacity will be available in the time frame.

6 MR. WRIGHT: Thank you.

7 Does FPL evaluate long-term purchase opportunities
8 in its planning and, if so, on what avoided cost
9 basis?

10 MR. ADJEMIAN: Well, we're showing here -- we're
11 showing here that our proposed plan shows construction
12 of combined cycle units. Of course, with the advent of
13 the bidding rule that's -- it may or may not happen,
14 and at that time there would be an evaluation of what
15 power suppliers would provide in lieu of this capacity,
16 which could be viewed as the avoided capacity, and
17 that's when the evaluation would take place of
18 long-term contracts or short-term contracts, however we
19 package the power supply deal to offset or avoid this
20 capacity, if that is a more economic thing to do.

21 We may end up building our own plant is what I'm
22 saying, maybe. It's one possible outcome.

23 MR. WRIGHT: Yeah. If it's the most cost
24 effective option, that's exactly what you ought to do.

25 Thank you.

1 COMMISSIONER DEASON: Further questions?

2 MR. McNULTY: I have a question. My name is Bill
3 McNulty. I'm with the Commission staff.

4 My question has to do with the energy forecast,
5 and specifically on page 1 of 3 of Form 2 in the
6 ten-year site plan, the average kWh consumption per
7 customer for the residential class increases 16 and a
8 half percent over the historical period of the last ten
9 years but increases six and a half percent over the
10 ten-year forecast period.

11 I was wondering if you would give us some
12 indication as to the reasons for that declining
13 increase in use per customer?

14 MR. ADJEMIAN: Well, I guess I will give you what
15 I think is part of the reason and we'll see if we can
16 get you a little more detailed reason, but -- later on,
17 but I think part of the -- part of what's reflected in
18 there is the effect of the load management programs
19 that are going into place, the conservation programs
20 that are going into place, as well as the assumption
21 that we make that the increased appliance saturation in
22 homes consists of more efficient appliances as time
23 goes on. So the incremental change may be not as large
24 as it was in the past, and those may be some reasons
25 why that would happen, but I'd have to get back to you

1 with a more detailed response from our load forecaster
2 as to what the specifics is behind that.

3 MR. McNULTY: So that would be both increasing
4 appliance efficiencies as well as appliance
5 saturations as two separate reasons for this apparent
6 trend?

7 MR. ADJEMIAN: I don't know.

8 MR. McNULTY: Thank you.

9 COMMISSIONER DEASON: Further questions?
10 Thank you.

11 MR. HAFF: Okay. Our next summary of the plans
12 will be from Florida Power Corporation.

13 COMMISSIONER GARCIA: Does Florida Power Corp.
14 have a handout by any chance?

15 MR. RIB: Yes, we do.

16 Good morning. My name is Mike Rib. I'm with
17 Florida Power Corporation. I'm the Manager of
18 Generation Planning, and good morning, Commissioners,
19 good morning staff. I want to very briefly present
20 some of the highlights from our 1996 ten-year site
21 plan.

22 Florida Power Corporation's planning criteria in
23 the 1996 planning horizon remains the same as it has in
24 the past. We're including both the 15-percent reserve
25 margin on seasonal firm peaks, and those firm peaks

1 historically have occurred in the winter, as well as a
2 loss of load probability limit of .1 days per year. In
3 our planning we also constrain operation scenarios to
4 meet the EPA total SO2 limit for the year 19 -- or for
5 the year 2000 for clean air.

6 This shows the total summer peak demand. We show
7 it growing at a moderate rate somewhere in the
8 neighborhood of two percent, and these are our system
9 peak demands. You see that the historical and the
10 forecasted trend weld together.

11 This was the winter system peak demand. Of
12 course, as we've seen in the state summary and also the
13 Power & Light summary, the winter peaks are a lot more
14 sensitive, but you can see that our forecast trends
15 nicely with our historical experience.

16 One of the items we show in the new forecast where
17 the forecast drops off in the year 2002 demonstrates
18 some anticipation of reduced wholesale sales. So that
19 is something that we are taking into account is
20 forecasting retail and wholesale.

21 The retail growth rates are pretty consistent
22 throughout the planning period. The wholesale is a
23 little more volatile, as I think we've seen in our
24 experience.

25 Net energy for load also trends at about two

1 percent, and you can see a very similar pattern.

2 This is looking at 2004, the end of the ten-year
3 planning period, looking at our capacity resource mix,
4 fossil steam remaining roughly the same, increasing
5 slightly, qualifying facilities showing full
6 participation from the contracts that we have, the --
7 demonstrating the increase in DSM we anticipate having
8 on line at that time, as well as continuing the
9 purchased power agreements that we currently have.

10 Now at the end of the planning period on an energy
11 basis, you can see the predominant fuel consumption is
12 coal. This has changed a little bit since 1995 in
13 that, with a slight reduction in our energy forecast
14 over this period from what we had last year, the
15 natural gas additions to the system have been deferred
16 a few years, and that causes a slight shift in terms of
17 the oil and natural gas ratios from what we had last
18 year.

19 The DSM cumulative capacity reductions are noted
20 here for both summer and winter, representing the
21 goals from the Commission's goals hearings, and that's
22 what's included in our plan. This is incremental above
23 what's currently in place.

24 A couple of other changes to note between the '95
25 and the '96 ten-year plans. Intercession City is a

1 peaker site in central Florida. Last year we converted
2 two of those units to dual fuel capability, and this
3 year we've converted an additional two. That allows us
4 to operate on natural gas when it's available. It's
5 less expensive and it's a very attractive dual fuel
6 choice location.

7 We increased our partial requirements contract
8 with Seminole Electric for a three-year period, '99
9 through 2001, by 455 megawatts, and that wholesale
10 power sale is just a short duration.

11 We've also shown -- as a result of the load
12 forecast change, we've included Turner and Higgins
13 repowering, but they've shifted back. That's the --
14 those were the natural gas generation choices that were
15 in the '95 plan. I think, Commissioners, you'd note
16 that that -- or your staff may have mentioned to you
17 that the Turner and Higgins plants have been retired
18 very recently, just in the last couple of months. That
19 does not preclude them from repowering in the future.
20 They still represent a choice for us. At the same
21 time, they may very well be competing with Greenfield
22 natural gas combined cycle plants, and with all the
23 information we're getting in as we've purchased our new
24 units, it gets more and more competitive every year as
25 the prices of the new combined-cycles come down. So

1 that's a very close call, but it's still an option
2 that's available to us.

3 One other note I might add that's off the sheet is
4 that the Polk County unit was originally two individual
5 235 megawatt single combined units. As we evaluated
6 that project and looked at the cost of having two
7 separate units rather than having a single unit built
8 in '98, the economics were overwhelming in terms of the
9 less expensive equipment, the less expensive
10 construction cycles, to go ahead and install that plant
11 as a two-by-one combined cycle and bring it into
12 service in 1998.

13 There are some generating capability changes that
14 are driving the plan. There is just a minor adjustment
15 in capability at the nuclear plant, and then the fuel
16 conversion. One of the other drivers towards the back
17 end of the plan is some retirements are anticipated,
18 and these are directly from our current --
19 currently-filed plant retirement study. One of the
20 things that we have to do is revisit that study, I
21 believe, in 1997, and we'll determine if all of these
22 facilities will, in actuality, be retired at their
23 proposed retirement dates. Most of these are peakers,
24 or they're all peakers, as you can see.

25 The new power plant capability that's in the 1995

1 plan includes Intercession City P-11, which is
2 currently in service; Polk County Unit 1, coming in
3 service, November, '98; and then beyond that, a
4 combustion turbine in the fall of 2003, followed by
5 repowering of Turner and Higgins, and then topped out
6 with a combustion turbine project in the fall of '95.
7 So that keeps us as at our 15 percent reserve margin
8 criteria, as well as loss of load probability.

9 A brief update on the Siemens 84.3 combustion
10 turbine. That is a brand-new technology, a combustion
11 turbine at our Intercession City site. We had some
12 trouble with it this spring that some folks in the
13 room are probably aware of, some firing problems with
14 the oil burners on that unit. It's Serial No. 2, so
15 sometimes that can be expected. Those problems, to the
16 best of our knowledge, have been resolved and the
17 unit's operating reliably this summer in a test and
18 start-up mode. So the test and start-up actually began
19 the 29th of July. That's moved our official acceptance
20 back to November for a commercial operation, but we
21 feel very comfortable with those target dates.

22 On our Polk County project, we began site
23 development November, '94, and site development at the
24 time of writing of this contract or -- I'm sorry -- of
25 this report was 80 percent complete. It's -- site

1 development is currently substantially complete absent
2 pouring foundations for the power blocks. So the site
3 development, the cooling ponds and a lot of the
4 environmental mitigation work has been done, and
5 they're currently filling cooling ponds at this time.
6 The power plant equipment contracts for the combined
7 cycle have been awarded to Westinghouse, and natural
8 gas transportation has been secured for the project
9 through both permanently released capacity and any
10 required pipeline expansion that FGT needs to supply.
11 I think FGT makes the final determination of how to
12 bring that capacity to us, but we do have the necessary
13 capacity under contract.

14 Finally, just a quick look at reserve margin
15 summary. You can see they are dropping towards the
16 outer period, but they are shown to maintain the 15
17 percent reserves based on our winter criteria. I think
18 enough comments have been made this morning about
19 shorter lead times on equipment and so forth, so we're
20 not as concerned about the outer year periods in terms
21 of meeting the resource requirements.

22 Those are all my comments, but I'm available for
23 questions.

24 COMMISSIONER DEASON: Questions?

25 MR. GING: I'm David Ging with staff. I have a

1 question about the capacity you say is under contract
2 with FGT. Would that include the Phase 4 expansion?

3 MR. RIB: That's something -- I'm not the expert
4 on that, but that's something that's recently
5 negotiated with Citrus, and I believe that Citrus will
6 make the final determination whether Phase 4 is
7 required, and I guess that will come before this
8 commission. I don't know if that's going to be
9 required or whether they'll be able to go back into the
10 market and get adequate release capacity and allow them
11 to defer that expansion.

12 It may be that some folks on staff here know more
13 about that than I do, though. If you'd like, I'll
14 follow that up and get more clarification.

15 MR. GING: Okay.

16 MR. BALLINGER: Tom Ballinger with the staff. Do
17 you have any preliminary results of your reverse RFP to
18 the cogenerators that you sent out?

19 MR. RIB: I'm sorry, I don't. That area is in a
20 different area of the company, and I didn't come
21 prepared to speak about that. If you'd like, I'll have
22 somebody from our company contact you.

23 MR. BALLINGER: That's okay. I've seen some
24 correspondence back. I can check with that or I can
25 check with Robert Dolan at the company.

1 MR. RIB: Either Robert Dolan or Sam Nixon would
2 be fine, yes.

3 MR. BALLINGER: Okay. Thank you.

4 COMMISSIONER DEASON: Tom, did you say "reverse
5 RFP"? What did you say?

6 MR. BALLINGER: Reverse RFP. There are --
7 several of FPC's co-gen contracts are higher than
8 today's avoided costs, and FPC has gone and tried to
9 buy back or buy down some of those contracts to see if
10 there's any interest.

11 MR. RIB: Yeah, that's essentially correct.

12 MR. McNULTY: I have a question. Again, Bill
13 McNulty, Commission staff.

14 A similar sort of question to that which we asked
15 to Florida Power & Light regarding Form 2 energy
16 consumption. The average kWh per customer increased in
17 the historical period 18 percent over the last ten
18 years and is increasing eight and a half percent in the
19 forecast horizon.

20 Can you give an indication why there's this change
21 in the rate in increase in usage per customer?

22 MR. RIB: I don't think I could give you a better
23 answer than Mr. Adjemian did. The forecasting area is
24 not my expertise, but I think -- I've heard a lot of
25 the same discussions in terms of appliance saturation

1 and impacts of load management. So it very well could
2 be the issues at hand, but I would be happy to follow
3 that up, if you'd like.

4 MR. McNULTY: Thank you.

5 MR. WRIGHT: Thank you, Commissioner Deason.
6 Again, Sheff Wright, representing Lee County. Just a
7 couple of questions, Mr. Rib.

8 MR. RIB: Sure.

9 MR. WRIGHT: I'm looking at your chart that
10 describes your integrated resource planning process,
11 which is the second page in your package.

12 MR. RIB: Okay.

13 MR. WRIGHT: I just want to understand how FPC
14 treats DSM programs in developing its integrated
15 optimal plan, then I'll get to the real point. Do
16 y'all reevaluate DSM programs based on current avoided
17 costs in each annual planning process?

18 MR. RIB: Typically we don't do that in each
19 annual planning process. Every few years we'll go
20 through a more rigorous exercise. In recent years
21 we've been through the same proceedings in terms of
22 setting the goals for the Commission for DSM targets as
23 well as having gone through that in terms of costs --
24 cost adjustments that were necessary for that rate. I
25 think we've done quite a bit of work on that.

1 But in this 1995 plan, we did not go through a
2 future evaluation. We simply integrated the DSM
3 targets and looked at primarily the supply side.

4 MR. WRIGHT: But am I correct that you did
5 evaluate specifically the load management program? And
6 I may be -- I think load management you did reevaluate
7 and modify based on the fact that it wasn't cost
8 effective, is that right?

9 MR. RIB: Well, that was what went into the rate
10 adjustments that were proposed and didn't go into
11 effect last year. They did not affect the targets for
12 capacity and energy reduction, but they did affect the
13 pricing signals in terms of our customer rates. So you
14 are correct.

15 MR. WRIGHT: If you have a plan as to when you
16 intend to reevaluate your DSM programs based on
17 whatever the current avoided costs are at the time,
18 when would that be?

19 MR. RIB: I can't say that for sure. I imagine,
20 since that we're at that level of depth in terms of
21 looking at those programs every few years, I'd
22 anticipate that coming up probably in '97, possibly in
23 '98.

24 MR. WRIGHT: Thank you.

25 Does FPC evaluate unspecified purchased power

1 options as part of its integrated resource planning
2 process?

3 MR. RIB: We really didn't in the '95 planning
4 process. We've started to bring more of that
5 information up to the surface and look at it in our
6 current planning processes. I think that it's clear
7 that, in the wholesale power markets, there are going
8 to be market-based products that are available that are
9 alternatives to new construction, and those will be
10 looked at as the needs arise. So we are looking at
11 them more and more.

12 We talk to the suppliers directly to see what type
13 of options are available. We communicate with the
14 suppliers we're currently contracting with to make sure
15 we're up to date on what options are available from
16 them. So I do believe that, going forward, the market
17 will offer opportunities that we will certainly
18 consider as we evaluate our needs.

19 MR. WRIGHT: Okay. Thank you. Just one more
20 question.

21 To what extent, if at all, does your plan reflect
22 consideration of the possibility of federal legislation
23 affecting competition in the electric industry, say the
24 Schaffer Bill or the Markie Bill?

25 MR. RIB: Well, I'd say that the '95 planning

1 process probably was not as sensitive to that as some
2 of the work we've begun to do more recently. We try to
3 anticipate that, although a lot of the regulatory
4 issues are really here in Tallahassee. So that would
5 need to be dealt with appropriately.

6 The most important thing you can do is just try to
7 anticipate different types of market conditions and
8 different types of market structures and try to make
9 sure that your planning is robust and not necessarily
10 particularly tied to a particular scenario. So I think
11 we're doing more of that, but that's something we're
12 learning. I don't really think it's reflected much in
13 the '95 plan.

14 MR. WRIGHT: Thank you.

15 COMMISSIONER DEASON: Further questions?

16 MR. RIB: Thank you.

17 COMMISSIONER DEASON: Thank you, Mr. Rib.

18 MR. HAFF: Our next presentation will be from
19 Tampa Electric Company.

20 MR. GATES: My name is Paul Gates. I'm the
21 Manager of Generation Planning within the Resource
22 Planning Section of Tampa Electric Company, and I'm
23 here representing Tampa Electric Company.

24 Starting off with the demand and energy forecast,
25 which is a primary driver to the ten-year site plan

1 effort, I've shown a comparison of winter and summer
2 firm peak as well as net energy for load as it relates
3 to last year's ten-year site plan relative to this
4 year's.

5 As you can see on the overall change between the
6 two ten-year site plans, there is a nominal difference
7 between these two forecasts. We are projecting
8 effectively the same type growth rate as well as
9 outlook for our area in the peak demand area.

10 Net energy for load in 1996, we have changed that
11 energy down by 63 gigawatt hours. That is primarily
12 driven by specific customer activities within our
13 service territory, notably Florida Steel leaving our
14 service area throughout the years 1994 and '95, and
15 those have been captured in the 1996 ten-year site
16 plan.

17 Long-term we're going to have a little bit
18 stronger growth in our net energy for load, and that is
19 going to put us back on track with what we were
20 projecting last year.

21 MR. HAFF: Mr. Gates, we're having trouble hearing
22 you over on this side of the room. I was just wondering
23 if you could speak up a little. Thank you.

24 MR. GATES: Okay. Looking at existing generating
25 capacity owned by Tampa Electric Company, we currently

1 have 3404 megawatts of capacity. 86 percent of that
2 is coal. Seven percent is No. 6 oil, as represented
3 by our Hooker's Point Philips Station, and on the No. 2
4 oil, which is represented by our CTs at the Big Bend
5 and Gannon Stations. This does not include the Polk
6 unit as this was relative to January of '96.

7 Serving -- the energy generated by Tampa Electric
8 Company in 1996, we expect 92 percent of that energy to
9 come from coal-fired resources, one percent from oil,
10 two percent from purchases, approximately three percent
11 from cogeneration, and we currently expect
12 approximately two percent of that generation to come
13 from petroleum coke, which is currently being burned at
14 our Big Bend Station.

15 In the year 2005 we'll expect that pet-coke
16 generation to increase to 9.5 percent, and that is
17 associated with the Polk Unit 1 petroleum-coke blend at
18 that station, and that will reduce our coal generation
19 down to 83.7 percent versus the 92.

20 Demand reduction alternatives: Currently we have
21 a pretty even balance between dispatchable demand side
22 management on the load management and interruptible.
23 Conservation is representing approximately 31 percent
24 of those demand reduction alternatives. We're
25 expecting that to grow by up to 42 percent as per the

1 conservation goals that will be taking effect.

2 Looking at the summer demand reduction
3 alternatives on our system, we currently have a much
4 smaller percentage of the conservation type activity.
5 Given that it's a smaller base of overall demand
6 reduction in terms of megawatts, that is going to take
7 on a greater percentage of our overall mix associated
8 with this area.

9 Tampa Electric currently has a dual reliability
10 criteria, .1 net assisted loss of load probability, or
11 one day in ten years, a minimum 20 percent firm winter
12 reserve margin that we will meet through this process.

13 Our expansion plan and capacity additions that we
14 expect, we've shown a comparison here between 1996 and
15 1995 ten-year site plans. Given the slightly lower
16 energy forecast as well as the slightly lower demand,
17 firm peak demand forecasts, primarily driven by the
18 conservation efforts, we will be able to push the
19 previous 2001 CT to the year 2002. We are assuming the
20 Hardee Power Station Unit 2 build-out and at the same
21 time we will be retiring Hooker's Point for the
22 purposes of this study.

23 Looking at the specifics of how this system
24 reliability criteria plays out with these capacity
25 additions, you can see that we have met all the

1 criteria that we have laid out in our dual reliability
2 criteria with the first CT, again, being added in the
3 year 2002.

4 Looking at it from an overall integrated resource
5 perspective, we're looking at a total demand
6 requirement on our system of almost approximately 4900
7 megawatts, increasing by approximately 1,000 megawatts
8 to the year 2005. The capacity mix between these two
9 is approximately the same, 69 percent in 1996, a total
10 of 65 percent out in the year 2005, demand reduction
11 alternatives increasing coincident with that, and
12 purchases specifically related to firm contracts and
13 the Hardee Station build-out climbing to 10.2 percent.

14 Looking specifically at the incremental additions
15 to our system associated with that resource expansion,
16 40 percent of that additional demand will be met
17 through generating capacity additions, 42 percent
18 associated with demand reduction alternatives, and 17
19 percent of that met by new purchases.

20 I have one additional slide here that is not in
21 the packet, and it's just a quick update on the Polk
22 power station recent accomplishments and where we are
23 to date on that.

24 The combustion turbine was fired on No. 2 oil
25 April 20th of this year. The combined cycle exceeded

1 the guarantee on number oil -- on capacity by four
2 percent. The heat rate was 2.5 percent better than the
3 guarantees.

4 We made our first syngas on July 19, '96, as per
5 the schedule, and the initial gasifier run was
6 approximately 22 hours, which was one of the longest
7 first runs of the Texaco technology, and syngas to the
8 combustion turbine is expected sometime early next
9 week.

10 That concludes my presentation.

11 COMMISSIONER DEASON: Mr. Gates, I have a
12 question concerning your reliability criteria and the
13 minimum 20 percent firm winter reserve margin. Why is
14 your target 20 percent as compared to some of the other
15 utilities which are having a target of 15? Is it
16 because your winter peaking as opposed to Power & Light
17 being basically summer driven, or is it the big
18 difference is in the size of the utilities? What
19 causes that?

20 MR. GATES: I think one of the drivers is that we
21 are winter peaking. We are a little more volatile to
22 those weather conditions coming in.

23 Also, our generation mix are very large units, and
24 to the extent that we can lose a very large unit can
25 have an impact on our sensitivity to that.

1 COMMISSIONER DEASON: Okay. Thank you.

2 Further questions?

3 Mr. Wright?

4 MR. WRIGHT: Thank you, Commissioner Deason.

5 Mr. Gates, I want to ask you a couple of the same
6 questions I've asked the FPL and FPC representatives.
7 Has Tampa Electric reevaluated its DSM programs based
8 on current projected avoided costs since the goals
9 hearing?

10 MR. GATES: Our last evaluation I believe was the
11 '93-'94 time period, and as it stands today, we are
12 currently in the process of evaluating those.

13 MR. WRIGHT: Based on current avoided costs?

14 MR. GATES: Yes, sir.

15 MR. WRIGHT: And that's for your '96-'97 planning
16 cycle?

17 MR. GATES: That has yet to be determined whether
18 or not that will be complete at that time.

19 MR. WRIGHT: Thank you.

20 And I noticed -- or on page 10 of -- the last
21 page, in fact, of your handout, that Tampa Electric is
22 projecting 17.5 percent of its incremental resources
23 between now and 2005 as being purchases. I guess that
24 calculates out to about 210, 220 megawatts?

25 MR. GATES: Approximately. I'm not sure of that

1 number.

2 MR. WRIGHT: I did not notice that in the
3 projected resource table. Is that just an unspecified
4 future purchase at this point?

5 MR. GATES: No, sir. That is actually associated
6 with the Hardee Power Station build-out, which is our
7 most cost effective alternative overall.

8 MR. WRIGHT: Okay. Thank you.

9 And, lastly, I would ask what if any consideration
10 Tampa Electric's planning process gives to the federal
11 legislative initiatives regarding the electric
12 industry, say the Schaffer Bill or the Markie Bill?

13 MR. GATES: All of those considerations are done
14 at a different level, but they are taken into account
15 from a risk and strategic position.

16 MR. WRIGHT: Thank you.

17 COMMISSIONER DEASON: Okay. Further questions?
18 Thank you, Mr. Gates.

19 MR. GATES: Thank you.

20 MR. HAFF: Thank you.

21 Okay. Next on our agenda is a presentation by
22 Gulf Power Company, or presentations by Gulf Power
23 Company.

24 MR. MARLER: Good afternoon, Commissioners.

25 COMMISSIONER DEASON: I believe it's good morning.

1 MR. MARLER: Good morning, I'm sorry. My name is
2 Mike Marler. I'm with Gulf Power Company. I am their
3 principal load forecaster. I'll be presenting the
4 company's forecast that went into the '96 ten-year site
5 plan, and my colleague, Bill Pope, will present the
6 resource plan to meet those needs.

7 COMMISSIONER KIESLING: Excuse me. You need to
8 give a copy to the court reporter.

9 MR. MARLER: The major assumption changes that are
10 incorporated into this forecast include involving the
11 recent Base Realignment and Closure Commission
12 decisions. Additionally, we incorporated the latest
13 demand side management plan approved by the
14 Commission. Our previous ten-year site plan did not
15 incorporate the goals that were approved in '94. This
16 one does.

17 Currently Gulf's makeup between the classes, the
18 residential energy share represents approximately 43
19 percent of our total net energy for load. Commercial
20 is approximately 29 percent, industrial 19 percent.
21 Street lighting is very small at two tenths of a
22 percent. Losses and company use represent about 6.2
23 percent, and our wholesale sales represent 3.6 percent
24 in 1995. So we're primarily a residential company.

25 Our customer growth expectation in the '96

1 (Whereupon, Chairman Clark joined the proceedings
2 at 10:45 a.m.)

3 MR. MARLER: This depicts the resultant energy by
4 class so you can get a feel for the impact on net
5 energy for load by the various growth rates among the
6 classes, residential, commercial, industrial, street
7 lighting, losses and wholesale.

8 And that concludes my portion of the
9 presentation.

10 MR. POPE: As Mike described, our forecast is
11 summer peak demand, which is our basis for planning the
12 resource additions for Gulf Power Company system.

13 This slide depicts how Gulf plans to meet those
14 demand growth needs over the planning horizon. First,
15 starting with a purchased power of 180 megawatts in
16 1999, which will be sought from the open market, going
17 on down to a 200 megawatt combustion turbine plant in
18 2003, and then an additional purchased power in 2005, a
19 reduction of some of that purchased power in 2006 with
20 another combustion turbine addition. Over on the
21 right-hand side you'll see Gulf's summer peak reserve
22 margin, and if anybody's got any questions, I'll be
23 glad to address them.

24 My name is Bill Pope with Gulf Power.

25 MR. HAFF: Yes, I have a question, Bill. Last

1 year's plan showed your next unit addition as being the
2 Shoals A., correct, at 1998? And this year's plan has
3 been pushed five years into the future to 2003. So, I
4 was wondering if you could explain why that was done
5 and what -- I see the capacity purchase, but try to,
6 you know, give some insight as to why that was done.

7 MR. POPE: Well, as noted in the ten-year site
8 plan, yes, the 1998 and 1999 combustion turbine
9 additions at the Shoals Plant has been replaced with
10 100 megawatts of short-term/near-term capacity
11 purchases; and the main factor here was that we felt
12 and still feel confident that the purchased power --
13 short-term purchased power option is, one, less costly
14 and, two, more flexible for the utility at this time
15 when there is some degree of uncertainty in the near
16 term.

17 MR. HAFF: Have you signed a contract for that
18 capacity yet?

19 MR. POPE: No, we have not, but we're in the
20 process of preparing an RFP for the market.

21 MR. HAFF: Okay. I guess my next question is, you
22 haven't identified a specific potential seller of that
23 capacity, if you're going to go through the RFP.

24 MR. POPE: No, but we have seen others who have
25 gone to the market for very similar type of stuff, and

1 there's plenty out there at this time, we feel
2 confident. We just want to make sure we get out there
3 before everybody else does.

4 COMMISSIONER DEASON: I have a question. The
5 reserve margins for the years '96, '97 and '98 appear
6 low. Is that -- first of all, why is it that low, and
7 what is the impact of the interchange agreement with
8 Southern Company? Does that remedy this situation?

9 MR POPE: The reason that the reserve margins for
10 Gulf Power Company are low is because there have been
11 -- with the Olympics and Georgia Power, there are going
12 to be some slight temporary surpluses on the southern
13 electric system, which we're a part of and plan with,
14 and we're allowed and take the benefit of allowing
15 that to happen without having to commit to other
16 resource because of these temporary surpluses and
17 deficiencies. The Southern Electric System plans on a
18 15 percent target reserve margin overall. The smaller
19 companies do get the benefit of not having to add big
20 chunks of power and paying that by leaning on the
21 system slightly.

22 As far as I see, it comes and goes, and I couldn't
23 tell you if it's positive or negative.

24 MR. HAFF: Is that -- to follow up on Mr. Deason's
25 question, the winter peak doesn't seem to have as much

1 of a -- pose as much of a problem to your reserve
2 margin. Is that because you, along with the other
3 members of Southern Company, are all summer-peaking
4 utilities?

5 MR. POPE: We are summer-peaking, and there's
6 quite a bit of natural gas in Alabama and Georgia,
7 which frees up generating capacity during the winter
8 period.

9 MR. HAFF: All right. Thank you.

10 MR. McNULTY: I have a question similar to what
11 was asked to Florida Power & Light and Florida Power
12 Corp. Essentially the growth rate in the average use
13 per customer for the residential class, we see that
14 between '86 and '95 it's -- the growth is 11 percent
15 over that entire ten-year time period, and in the
16 future ten-year time period, through 2005, that rate
17 goes negative. It goes to negative one percent. Could
18 you give us some indication as to why you see a
19 negative growth rate here?

20 MR MARLER: I'll try.

21 This is graph of what he's talking about right
22 here, and basically what it depicts -- historically
23 we've seen a 1.2 percent growth rate of energy per
24 customer in the residential class. We're projecting
25 approximately a negative .1 percent growth with the DSM

1 programs. Without it it would be slight positive, and
2 the reason for that is primarily driven by,
3 historically we've had an increase in the saturations
4 in residential central air-conditioning. They're
5 reaching the point of saturation. They cannot continue
6 increasing forever, and our residential end-use energy
7 planning model, REEPS, which is an EPRI model, actually
8 simulates things like that. It also incorporates the
9 1993 appliance efficiency standards and shows those
10 rolling in over the near horizon, where older units
11 become defunct, they get replaced by newer
12 super-efficient units, and the end result of in all
13 this is the residential energy per customer basically
14 holding its own.

15 There are some increases that are occurring in the
16 other categories, not central air-conditioning or
17 heating, but, rather, other home end-use energy
18 consumption, and this just depicts the net result in
19 that.

20 MR. McNULTY: Thank you.

21 MR. HAFF: Are there any other questions for
22 Gulf?

23 Okay. Thank you.

24 Next on our agenda is the Alabama Electric
25 Cooperative, and --

1 CHAIRMAN CLARK: Have you taken a break? Mr.
2 Haff, don't you think we should take a break?

3 MR. HAFF: Sure, we can take a break at --

4 CHAIRMAN CLARK: Why don't we do that and break
5 until :05 after 11:00 and we'll start with Alabama
6 Co-op.

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

8 CHAIRMAN CLARK: Let's call the workshop back to
9 order.

10 I was just trying to get some sense of what time
11 is remaining for us to cover what we have on the
12 agenda, and I wanted to get a sense of the next
13 presentations and then the municipal utilities. I'll
14 tell you, quite frankly, what we're doing is
15 contemplating going through lunch and finishing up.

16 Let me ask you, Alabama Power -- Alabama Co-op,
17 how long --

18 UNIDENTIFIED SPEAKER: Less than five minutes.

19 CHAIRMAN CLARK: Seminole?

20 UNIDENTIFIED SPEAKER: About the same.

21 CHAIRMAN CLARK: FMPA, Mr. Bryant, what do you
22 think?

23 UNIDENTIFIED SPEAKER: It will be about the same.

24 CHAIRMAN CLARK: Okay. Gainesville Regional
25 Utilities?

1 UNIDENTIFIED SPEAKER: (inaudible).

2 THE COURT REPORTER: I'm sorry. Ma'am, I couldn't
3 hear.

4 CHAIRMAN CLARK: Someone in the audience said 12
5 or 15 minutes. I'll just -- I'll repeat what they
6 said. How about that?

7 Jacksonville Authority?

8 UNIDENTIFIED SPEAKER: About 15 minutes.

9 CHAIRMAN CLARK: Fifteen minutes for Jacksonville.
10 Lakeland?

11 UNIDENTIFIED SPEAKER: Ten to 15 minutes.

12 CHAIRMAN CLARK: Ten to 15 minutes.

13 City of Tallahassee?

14 UNIDENTIFIED SPEAKER: About 15 minutes.

15 CHAIRMAN CLARK: About 15 minutes.

16 Okay. I'm sorry. I skipped over Orlando.

17 UNIDENTIFIED SPEAKER: About five minutes.

18 CHAIRMAN CLARK: Five minutes for Orlando.

19 I know there are other parties here that may want
20 to comment on this. Could you raise your hand and give
21 me some idea if you do have prepared comments and how
22 long you think they would take? Ms. Kamaras?

23 MS. KAMARAS: About five minutes.

24 CHAIRMAN CLARK: Okay. About five minutes. Is
25 that for LEAF?

1 MS. KAMARAS: Yes, ma'am.

2 CHAIRMAN CLARK: Okay. Mr. Wright?

3 MR. WRIGHT: One or two minutes.

4 CHAIRMAN CLARK: And one or two minutes, and you
5 are representing --

6 MR. WRIGHT: Lee County.

7 CHAIRMAN CLARK: Given that time schedule and it
8 being Friday, I think I would like to go ahead and work
9 through lunch and complete the presentations. It looks
10 to me like maybe an hour and a half to two hours. So
11 let's continue on and work through lunch, and if it
12 gets to be too late, we'll take a break, but otherwise
13 it's my plan to work through lunch and break when we
14 hear from Ms. Kamaras and Mr. Wright and anyone else
15 who is interested in commenting at this time. Go
16 ahead.

17 MR. SCHUSSLER: My name is Russ Schussler. I'm
18 from Alabama Electric Cooperative.

19 The first chart, I'm not really trying to show any
20 more than where we are. We serve 16 distribution
21 cooperatives, four of which are in the state of Florida
22 in the Panhandle. The Florida utility -- the Florida
23 distribution cooperatives make up around 17 percent of
24 our end-use load customers.

25 Our energy is overwhelmingly coal and we make a

1 lot of purchases. We have right now just a very small
2 amount of gas and oil.

3 At the end of the site plan our percentage made up
4 of natural gas should increase to approximately eight
5 percent of energy. This is largely due to our new
6 additions being combustion turbine or combined cycle.

7 Currently this shows our existing generation. The
8 only generation located in Florida is the Portland CT,
9 which is ten megawatts. This is primarily backup for a
10 military installation to provide reliability.

11 Our current addition, we are completing repowering
12 of a coal plant, making it a combined cycle, a gas
13 combined cycle plant. That will be just up the road
14 from us in Andalusia, Alabama. Our next generation
15 addition after that will be in 1998 when we add two
16 113-megawatt combustion turbines up in Macintosh,
17 Alabama. We also have a couple of purchases coming in
18 1998. Beyond that, we plan CT additions in 2001 and
19 2003.

20 That completes my prepared presentation. If there
21 is any questions.

22 MR. HAFF: None of the proposed unit additions are
23 in Florida, is that correct?

24 MR. SCHUSSLER: No. We have not sited the 2001
25 and 2003. At this time I would not say that Florida is

1 a primary site for any, but it does receive some
2 consideration.

3 MR. HAFF: Okay. Thank you.

4 Any other questions?

5 Thank you.

6 Okay. Our next presentation will be from Seminole
7 Electric Cooperative.

8 COMMISSIONER KIESLING: Are you going to hand any
9 of those out to us?

10 MR. TWITCHELL: My name is John Twitchell. I'm
11 Director of Operations --

12 COMMISSIONER KIESLING: You're not on.

13 MR. TWITCHELL My name is John Twitchell. I'm
14 Director of Operations for Seminole Electric
15 Cooperative, and I'll summarize our 1996 ten-year site
16 plan in just a few slides.

17 Seminole's 11 distribution cooperative members
18 predominantly serve residential load scattered fairly
19 well across the state. As you can see from this slide,
20 we are predominantly a winter peaker. Our winter peak
21 demand is quite a bit larger than our summer demand,
22 and we expect that to continue.

23 Our energy requirements are expected to grow at
24 approximately the same rate as our demand growth for
25 the upcoming period of the study. Our energy

1 requirements are supplied primarily by a coal-fired
2 unit that we own in Palatka, Florida. It's a little
3 over 1200 megawatts. We are also a very small minority
4 owner of the Crystal River 3 Nuclear Unit along with
5 Florida Power Corporation.

6 In addition to those owned resources, we have
7 various firm power purchase contracts with a number of
8 utilities and with an independent power producer, TECO
9 Power Services.

10 Our capacity needs in addition to this are
11 purchases from Florida Power & Light and Florida Power
12 Corporation through partial requirements purchases.

13 I have one unit to report on that is not
14 constructed. Our Hardee Unit 3, which is to be located
15 at our Hardee Power Station site is a gas-fired
16 combined cycle unit that has received regulatory
17 approval as well as financing approval from RUS. We
18 have entered into a short-term purchase contract with
19 Florida Power Corporation, which the Florida Power
20 Corporation presenter discussed, that has allowed us to
21 extend the commercial operation of that unit from 1999
22 until 2002.

23 We use a two-pronged reliability criteria that is
24 a little different than most Florida utilities. We use
25 the unexpected -- pardon me -- the expected unserved

1 energy concept, which, because of the nature of our
2 system, it's similar to LOLP but not quite the same.
3 In addition to that we use the 15 percent reserve
4 margin criteria, whichever is more restrictive. In
5 the near term the EUE criteria is more restrictive.
6 Eventually the reserve margin criteria will be.

7 As you can see from this chart, our reserve margin
8 will be dwindling as the percent reserve becomes more
9 important to us than EUE and as our generation mix
10 changes in the future.

11 We are currently evaluating our future power
12 supply. We are a proponent of competitive bidding, and
13 we presently have an RFP out on the street for about
14 1,000 megawatts total. Their -- the RFP is soliciting
15 purchases from utilities, qualifying facilities,
16 marketers, independent power producers. We should be
17 opening bids late this fall and doing our evaluation
18 well into the spring of next year.

19 That concludes my prepared presentation, if there
20 are any questions.

21 MR. HAFP: Staff has one question. Did you want
22 to -- okay.

23 Did you happen to pick up the three handouts that
24 we had given out at the beginning that listed every
25 utility's base case forecast of the fuels?

1 MR. TWITCHELL: I have not seen that.

2 MR. HAFF: Okay. Oh, thank you. I have it now.

3 Particularly, I'm looking at coal and distillate
4 oil., and that would be on the second page -- Seminole
5 will be on the second page. One thing is particularly
6 striking as we received the supplemental data or the
7 fuel forecasts for the ten-year site plans, is that
8 your projections for these two fuels start off, you
9 know, the lowest and escalate almost not at all, and I
10 just -- I mean, without judging it, it just seems kind
11 of optimistic, and I was just wondering, you know, what
12 is your opinion of how this will pan out?

13 MR. TWITCHELL: This is always a difficult call.
14 If you recall last year in our ten-year site plan, in
15 the supplemental information that we filed, our fuel
16 forecast was probably in the middle if not slightly
17 higher than the average fuel forecast.

18 We've recently done a reevaluation of our fuel
19 forecast, and looking at historical trends and the way
20 we think things are going in the future, we're
21 projecting fuel cost growth at less than IPD --

22 MR. HAFF Less than --

23 MR. TWITCHELL: Implicit price deflator, and it
24 does show up here. It does now make us -- appears to
25 make us probably the -- well, it does seem to be the

1 lowest reporting growth rate of any of the reporting
2 utilities.

3 MR. HAFF: Okay. Okay. Thank.

4 Are there any other questions for Seminole?

5 Thank you.

6 Our next presentation is from the Florida
7 Municipal Power Agency.

8 MR. CASEY: Good morning, Commissioners and staff.
9 I'm Richard Casey, an assistant planning manager with
10 the Florida Municipal Power Agency.

11 I want to give you a quick overview of our
12 ten-year site plan this year. One thing you may notice
13 as we go through this, there are a lot of similarities
14 to last year. Part of the reason is, our planning
15 cycle was -- has been a little different and we are
16 currently in a very intensive cycle due to some
17 significant changes that we talked about last year by
18 doubling our load growth, and I'll explain that in just
19 a minute -- doubling our load, excuse me.

20 For those folks who didn't get to look at our
21 ten-year site plan or review or see what was done last
22 year, let me explain, since our structure is somewhat
23 different. FMPA is a nonprofit agency. We were formed
24 in '78 under the Florida Constitution and Joint Power
25 Act. Its primary function is to do joint financing and

1 construction, acquisition, manage, operate, utilize and
2 own electric power generation and transmission
3 facilities. We currently have 26 member municipals
4 across the state. You can see we're quite diverse,
5 from the Panhandle all the way down to Key West, and
6 several of those members do participate in various
7 projects that we do have.

8 Our current five generation projects are the St.
9 Lucie project, which we participate in with FPL, St.
10 Lucie 2. The 15 members are allocated to 74 megawatts
11 of that unit. The Stanton project is -- and Tri-City
12 both are projects involving Stanton Unit 1 of OUC. The
13 Stanton project has 64 megawatts for the six members.
14 Tri-City has 23 for the three members. Stanton 2
15 project, we have seven members participating, of which
16 they are allocated 98 megawatts of the 420. The
17 project that I spend most of my time in primarily is
18 the All-Requirements project, where we're the whole --
19 full-requirement supplier to six cities currently.

20 As of right now, '96, those six cities are Ocala,
21 Leesburg, Bushnell, Jacksonville Beach, Green Cove
22 Springs and Clewiston, and their total summer
23 coincident peak load is about 523 megawatts.

24 One item of significance that was not reflected in
25 the ten-year site plan in April of '96, we did enter

1 into an agreement with FPL for network transmission
2 service and, of course, that was before the FERC Order
3 888 open-access transmission tariffs were filed in
4 July.

5 In '97, based on our ability now to get network
6 transmission service, we will be forming or
7 implementing what we call our integrated dispatch and
8 operation project, IDO project, where we bring in four
9 additional cities, each of which has generation to add
10 to the All-Requirements project, those cities being Ft.
11 Pierce, Vero Beach, Lake Worth and Key West. Our total
12 '97 summer coincident peak should then be about 961
13 megawatts.

14 This graph gives you a visual feel for what change
15 we're fixing to see in the project. As you can see,
16 we've got FMPA generation, and then we're going to pick
17 up the four generating cities' generation as well, and
18 then we have purchases on top of that, and we've got
19 our projected reserve margin being roughly 20 percent
20 for the out years.

21 To compare this year's ten-year site plan to last
22 year's, the significant changes, because we have seen
23 significant growth in some of our All-Requirements
24 member cities in '95 and '94, we've upped our
25 projection for '97 over last year with the IDO cities

1 in place by almost five percent. The 1998 NEL,
2 compared to last year's '98 projection, is up three
3 percent, and also Cane Island 1 and 2, which we jointly
4 own with Kissimmee, are now in service, and to add,
5 Stanton Unit 2 did go commercial in June of '96, this
6 year, and that, of course, was not in the ten-year
7 site plan.

8 If I may digress for just a second, I forgot to
9 mention one item of interest. Back to this graph. The
10 plan -- our plan does have three 80 megawatt combustion
11 turbines planned in the out years. Those are still on
12 a tentative basis, however. They're not firmly in
13 place on a planning basis, and I'll mention in a little
14 bit the fact that we're going to be going out for a
15 long-term RFP to compare what the market may offer
16 against building those units.

17 On a tabular basis, here's another comparison of
18 this year's ten-year site plan compared to last, and as
19 I mentioned, you can see the increased anticipated
20 summer peak demand in 1987, again with the four
21 generating cities. Looking at the out years and then
22 looking at the annual growth rate, we're about -- we're
23 using about the same annual growth rate as we did last
24 year. The NEL basis, '98 is the first full calendar
25 year of operation under IDO. So that is shown as the

1 first year of comparison, and again we're looking for a
2 little more load than we anticipated in last year's
3 forecast.

4 And just to briefly run through other important
5 aspects of our plan, we have maintained several
6 conservation programs at Ocala and Leesburg, as well as
7 others. We do have the demand side management program
8 in place. We also have residential, commercial and
9 industrial energy audits among other programs in those
10 cities.

11 MR. HAFF: I've got a question while you're
12 talking about the demand side management. Is that
13 dispatched from -- by y'all or by the individual member
14 utilities?

15 MR. CASEY: We're set up to operate both.
16 Leesburg and Ocala can operate them independently, but
17 we also normally operate them out of the Orlando
18 dispatch center, and they also dispatch our generation
19 for the project.

20 MR. HAFF: Okay. Thanks.

21 MR. CASEY: Sure.

22 In terms of renewable options, we did consider
23 waste burning at Stanton 2, but it was determined to be
24 not cost effective. We do currently participate in the
25 Utility Photovoltaic Group and keep up with the solar

1 technology.

2 As far as other supply-side alternatives, we
3 currently support APPA and the fuel cell
4 commercialization, and we are in line to purchase one
5 of the first commercial units once they achieve that
6 point. We do have two cogenerators located at two of
7 our members, the Coca-Cola plant at Leesburg and U.S.
8 Sugar -- excuse me -- at Clewiston. U.S. Sugar is
9 about to add a second generator to go into service this
10 fall, which will add an additional 21 megawatts in
11 their generation output.

12 As I mentioned earlier, we have just -- we are
13 just wrapping up a short-term RFP process to look at
14 our needs over the next four years, and we will be
15 assembling and putting out a long-term RFP this winter
16 to look at our long-term needs as compared to the build
17 option at probably Cane Island or whatever other site
18 may be economical.

19 COMMISSIONER GARCIA: Let me ask you a question on
20 the U.S. Sugar plant.

21 MR. CASEY: Sure.

22 COMMISSIONER GARCIA: That's not on line yet,
23 correct?

24 MR. CASEY: Yes, sir. They've been in service for
25 several years.

1 COMMISSIONER GARCIA: I'm thinking of another one.

2 MR. CASEY: They are basically nested in our
3 service area, but they either consume their own output
4 and what they don't consume is sold to Florida Power &
5 Light.

6 COMMISSIONER GARCIA: And it's already been on
7 line for a few years?

8 MR. CASEY: Oh, yes, sir. I'm not sure for how
9 long, but they've been there for quite some time. It's
10 a sugar processing plant.

11 COMMISSIONER GARCIA: Right.

12 MR. CASEY: One other dimension of FMPA's
13 All-Requirements project is the participation in the
14 Florida Municipal Power Pool, along with Orlando
15 Utility Commission, Lakeland, and now Kissimmee. The
16 Kissimmee Utility Authority became a participant in
17 January of this year. The pool's been operating since
18 '88. It's a share-of-the-benefits energy pool, an
19 economy pool, if you will, and we average benefits of
20 about nine million dollars a year which are spread
21 among the participants.

22 COMMISSIONER GARCIA: I just want to make sure,
23 it's the Okeelanta then that I'm thinking of that isn't
24 on line yet, correct?

25 MR. CASEY: I'm not familiar with that.

1 MR. ADJEMIAN: That's correct (inaudible).

2 COMMISSIONER KIESLING: You can't talk from out
3 there because he can't write it down.

4 COMMISSIONER GARCIA: Scream or come up to a
5 microphone. I just want to --

6 MR. ADJEMIAN: The Okeelanta and the Osceola
7 cogenerating facilities, those are the ones that are
8 under contract with Florida Power & Light, and they are
9 currently undergoing the test mode, test operation, and
10 we expect it to be on line before the end of this year
11 for commercial operation.

12 COMMISSIONER GARCIA: I'm sorry about that. I was
13 just confused.

14 MR. CASEY: So just to wrap up FMPA's ten-year
15 site plan, we use reasonable load and fuel forecasts
16 and we consider all reasonable demand side and supply
17 side alternatives, and we are sensitive to our
18 environmental responsibilities, and we provide needed
19 power to an increasing number of municipal electric
20 utilities.

21 And that's the end of my presentation, if there
22 are any questions.

23 MR. HAFP: Are there any questions for FMPA?

24 All right. Thank you.

25 Continuing on, our next presentation is going to

1 be from -- made by Gainesville Regional Utilities.

2 MR. KAMHOOT: Good morning. My name is Todd
3 Kamhoot. I'm a utility analyst representing Gainesville
4 Regional Utilities. I'm responsible for preparing the
5 customer energy sales and power demand forecasts
6 included in the ten-year site plan. I'd like to give
7 a brief summary of GRU's 1996 ten-year site plan
8 through the portion of the plan covering the forecast.
9 Following the discussion of the forecast, Mark Spiller
10 will present demand side management and generation
11 planning highlights and conclude the presentation.

12 This slide shows an overview of general
13 characteristics of Gainesville Regional Utilities'
14 electric system. GRU's a municipally-owned electric,
15 natural gas, water and wastewater utility. Its
16 electric service area encompasses approximately 100
17 square miles of the Gainesville urban area within
18 Alachua County. GRU serves approximately 150,000
19 persons representing three-fourths of the population of
20 Alachua County.

21 GRU has two generating sites, the Deerhaven site
22 and the J.R. Kelly site, with a generating capacity of
23 512 megawatts from four steam units and six gas
24 turbines, plus an 11-megawatt share of Crystal River
25 3.

1 1995 system loads, our summer peak demand was 361
2 megawatts. Our net energy for load was 1,648 gigawatt
3 hours. GRU serves approximately 62,000 residential
4 customers, 7300 non-residential customers, wholesale
5 service to the City of Alachua and Clay Electric
6 Cooperative and firm interchange service to the City of
7 Starke and Florida Municipal Power Agency.

8 This graphic shows GRU's summer generation
9 capacity, which I stated was 523 megawatts, by unit
10 type. This chart shows the source of fuels used to
11 generate electricity for 1995. Net generation was
12 1,866 gigawatt hours, 70 percent of which was produced
13 by Deerhaven Unit 2, utilizing low-sulfur coal.

14 This is a summary of forecast assumptions, data
15 sources used. GRU uses least squares regression
16 analysis for each customer class to develop customer
17 forecasts and usage per customer forecast. Separate
18 forecasts are developed for the City of Alachua and
19 Clay Electric.

20 Analyses are conducted using calendar-year data
21 from 1970 through 1995. GRU assumes normal weather
22 conditions. Heating degree data and cooling degree
23 data is obtained from two area weather stations which
24 report to NOAA. One is operated by the University of
25 Florida, and the other by the municipal airport.

1 All economic and demographic data used in our
2 models comes from the Bureau of Economic and Business
3 Research at the University of Florida. That includes
4 population projections, income, employment,
5 household-size type of data. Income and electric
6 price are adjusted for inflation, and we assume an
7 average of 4.0 percent per year in our forecast
8 horizon.

9 Estimates of energy and demand reductions
10 resulting from demand side management programs have
11 been incorporated into all retail forecasts. Total
12 energy sales are adjusted for losses which average
13 almost six percent to derive our forecasted energy for
14 load.

15 And we have included in the '96 plan high and low
16 band forecasts which were based on alternative
17 population projections which, in turn, yield alternate
18 sets of independent variables, such as incomes and
19 employment figures used in the models.

20 This table summarizes some economic and
21 demographic characteristics of residents of Alachua
22 County versus the state of Florida. You can see that
23 Alachua County residents are on average younger than
24 residents of the state of Florida and less affluent.
25 Alachua County residents are more service and trade

1 employment based than industrial than are residents of
2 the state, and the household sizes on average are
3 smaller. These factors contribute to lower energy uses
4 for all retail classes and equivalent -- if they were
5 compared with equivalent retail classes among other
6 areas of the state.

7 This chart shows our forecast of net energy for
8 load, also historical data. I've also included the
9 high band and low band projection on the graph.
10 Historically, in the last ten years net energy for load
11 has increased at an average annual rate of four and a
12 half percent a year. It's projected to increase at 2.3
13 percent a year.

14 This chart shows seasonal peak demands for GRU.
15 The red line represents summer peak demand. That's the
16 higher line. We are a summer peaking utility. We have
17 been in each of the last 25 years. The blue line,
18 lower line represents winter peak demand. The lighter
19 lines above and below represent the high band scenario
20 for the summer peak and the low band scenario for the
21 lower peak. That sort of gives you the full range of
22 the seasonal demands that we look at.

23 Historically our summer peak demand has increased
24 at 4.2 percent a year, and our forecast has it
25 increasing at 2.3 percent per year.

1 That's all I have on the forecast. I'd like to
2 turn it over to Mark Spiller now.

3 MR. SPILLER: My name is Mark Spiller. I'm
4 responsible for demand side management planning for
5 Gainesville Regional Utilities, and I'd like to discuss
6 our resource plan and the impacts of demand side
7 management programs upon that plan.

8 Our plan is based upon a least-cost integrated
9 resource planning process and our needs are based upon
10 a 20-year load forecast that Mr. Kamhoot has just
11 described and the equipment of our generation,
12 transmission and distribution equipment. We performed
13 a dynamic optimization of the generation needs using
14 the EPRI-developed GS software.

15 This graph shows you the summer peak demand, the
16 historical and the projected on the green line. The
17 blue line just above shows you the available capacity
18 in the system, and the vertical bars represent 115
19 percent of peak demand, which gives you an idea of what
20 a 15 percent reserve margin would be in our system.
21 Notice we came pretty close in 1995 to that 15 percent
22 reserve margin, and the increase that you see
23 represents the addition of Deerhaven Combustion Turbine
24 3, which came on line in January of this year.

25 This graph shows the winter peak demands, and you

1 can see capacity is not an issue in the Gainesville
2 Regional Utilities system. This is largely driven by
3 the prevalence of natural gas within our service area.

4 The conclusion that we reached in our '96 ten-year
5 site plan is that no additional generating units will
6 be needed within the planning horizon of that ten-year
7 site plan.

8 GRU plans to remain aggressive with demand side
9 management programs despite the deregulation of smaller
10 utilities for DSM programs. We will maintain our
11 existing programs and, in fact, we plan to add a number
12 of new programs, including incentives for thermal
13 energy storage, gas cooling and quite a number of other
14 areas.

15 This graph shows you t'he energy impacts of our
16 projected programs, the estimated savings in green of
17 the programs that we plan within this horizon, and the
18 red line shows you what the PSC approved goal was for
19 Gainesville Regional Utilities. You can see that our
20 planned programs we estimate will exceed the PSC
21 approved goals by a substantial margin.

22 This graph shows you the summer demand impacts of
23 our planned programs versus the PSC approved goal, and
24 again, you can see that there is a substantial increase
25 in our estimated savings versus the PSC mandated goal.

1 This graph shows you the winter demand impacts,
2 power demand impacts versus the PSC approved goals, and
3 you can see there is even a greater increase or
4 difference between the estimated savings of these
5 programs and the PSC approved goal, and that's due to
6 our natural gas incentive programs.

7 In conclusion, GRU plans to be even more
8 aggressive than they have in the past with DSM programs
9 in order to better serve our customers and to meet our
10 resource needs. The net effect of our proposed DSM
11 programs at this point are to delay the addition of the
12 next generating unit about one year, out to 2006.
13 Without these programs, and in fact, if we were to only
14 meet the PSC approved goal, that unit would be moved up
15 to one year within this planning horizon of this
16 ten-year site plan to 2005. And, last, GRU does not
17 require additional generation within the horizon
18 dictated in the 1996 ten-year site plan.

19 Any questions?

20 MR. HAFF: Are there any questions for Gainesville
21 Regional Utilities?

22 Thank you.

23 MR. SPILLER: Okay. Thank you.

24 MR. HAFF: Our next presentation is going to be
25 made by the Jacksonville Electric Authority.

1 MR. MEYERS: I'm Jim Meyers. I work in the fuels
2 management area of the Jacksonville Electric
3 Authority. I appreciate the opportunity of going over
4 our ten-year site plan with you today.

5 The first slide I want to put up just lists our
6 planned changes to generating capacity contained in
7 the ten-year site plan. The first project is our
8 Girvin Road Landfill project, which will add three
9 megawatts. In this project, we're using the methane
10 gas at the City's Girvin Road Landfill to power four
11 internal combustion engines, providing the three
12 megawatts of capacity. In the ten-year site plan, this
13 was listed to have a commercial date of November, '96,
14 and the latest information I have is that this has slid
15 to January of '97.

16 The next capacity change is with Northside Unit 1.
17 This unit has been derated 11 megawatts, and it is
18 being restored to its full load of 262 megawatts by
19 1997.

20 One of the bug assumptions in the '96 ten-year
21 site plan is the addition of 100 megawatts of
22 interruptible load by 1997. The Jacksonville Electric
23 Authority has proposed a tariff that is currently being
24 reviewed by the Commission, and we're anticipating by
25 October of this year having that tariff in place and

1 having our about 100 megawatts of interruptible load by
2 '97.

3 We also include in this ten-year site plan the
4 purchase of peaking capacity from PECO energy. This is
5 a done deal for firm capacity, 40 megawatts for the
6 summer of 1998, 50 megawatts for the summer of 1999.
7 The plan then shows the repowering of Southside Unit 3,
8 which is currently in cold storage. We'll be adding a
9 combustion turbine to repower Southside 3 as a combined
10 cycle unit. This will take place by the summer of
11 2000.

12 In the last four years of the ten-year site plan,
13 we show the addition of combustion turbine units to
14 maintain our 15 percent reserve margin.

15 How does this compare with last year's ten-year
16 site plan? The similarities are that the repowering of
17 Southside 3 was shown in our last plan as was the
18 Girvin Road Landfill and the return to 262 megawatts of
19 Northside 1.

20 Okay. As I mentioned, the interruptible load is a
21 major difference. Also the contract that we have with
22 PECO Energy is new for this ten-year site plan. We
23 also show Kennedy 10 being derated 24 megawatts. The
24 unit's about 25 years old and we're operating it at
25 lower pressures. So that unit has dropped in capacity

1 from 129 net megawatts to 105 megawatts.

2 The other change is that the combustion turbine
3 units that we show in the last four years were not
4 shown in the last ten-year site plan. Last year we
5 showed our reserve margin dropping below 15 percent but
6 did not identify any unit additions.

7 The demand and energy forecast I think is one of
8 the key assumptions in the ten-year site plan. What
9 this shows is the summer and the winter peak forecasts
10 and the net energy for load forecasts for the '95
11 ten-year site plan and this year's ten-year site plan.
12 So one thing that you'll note is that our forecast is
13 higher for the summer and winter peaks in the net
14 energy for load than it was last year, and also our
15 winter peak is growing faster relative to the summer
16 peak in the '96 ten-year site plan. We're growing at
17 2.2 percent in the winter, 1.9 percent in the summer.
18 In 1996, we're starting out essentially the same in
19 terms of summer and winter peak, but by the end of the
20 ten-year period, we anticipate being a winter-peaking
21 utility.

22 Still, the summer peak is more critical for
23 planning purposes because we have higher capacity
24 ratings in the winter than in the summer. So what this
25 graph shows here is summer peak demand versus capacity.

1 The blue line represents our peak. The red line has
2 been increased by 15 percent, and the white bars
3 represent our installed capacity and firm purchases.
4 And as you see, this ten-year site plan is based on
5 maintaining 15 percent reserve margin.

6 The last slide I want to show describes our fuel
7 mix. Fuel flexibility is critical to the Jacksonville
8 Electric Authority. As recently at 1980, we were
9 essentially 100 percent oil-fired. Since that time, we
10 added coal-based purchases from Southern. We added gas
11 capability at our oil-fired units. We've constructed
12 St. Johns River Power Park with Florida Power & Light
13 and purchased a portion of Sharer 4 in Georgia.

14 Let's see. It's kind of difficult to see, so you
15 may need to look on your handouts, but the top shows
16 1995. That's actual, and then the bottom two pies show
17 2005 capacity and energy. In 1995, about 60 percent
18 of our capacity is oil and gas fired, but when it is
19 -- as far as producing energy, we're producing about a
20 quarter of our energy with oil and gas. The remainder
21 is coal -- basically coal-based, although some of this
22 pink pie -- you can't really see that, but that is pink
23 -- but a portion of that is coal-based as well, because
24 that's the other category, and most of that is economy
25 transactions.

1 By 2005 we anticipate our energy mix to be
2 similar. We see oil and gas going up to about 28
3 percent, the remainder being essentially coal-fired.
4 We show the other category dropping, but that may in
5 fact increase and take away some of the oil and gas as
6 purchased power begins to be more plentiful with the
7 increased marketing in the electricity field.

8 So that concludes my presentation. If you have
9 any questions, I'll be happy to answer them.

10 MR. HAFF: Are there any questions for JEA?

11 Okay. Thank you.

12 Our next presentation is going to be made by the
13 City of Lakeland, and will you make sure the
14 Commissioners get those as well? Thank you.

15 MR. ELWING: Good morning, Commissioners. It just
16 barely is morning yet. Let me give you a brief
17 overview of the City of Lakeland this morning. My name
18 is Paul Elwing. I'm Manager of System Planning with
19 the City of Lakeland. Lakeland did not file a ten-year
20 site plan this year as our forecast did not come out
21 until after the filing deadline. So we did not have
22 any new information or new plan to file at the filing
23 date, but we do have a new forecast that has come out
24 since then, and our plans are beginning to gel as we
25 speak, and so I'm going to give you a brief overview of

1 our new forecast and what our long-range plan looks
2 like.

3 Just real briefly, a little bit about who we are
4 and where we are. We are the third largest municipal
5 system in the state of Florida. We're about a 680
6 megawatt system today, which is made up of about 450
7 megawatts of natural gas capacity, 250 megawatts of
8 coal capacity, and 30 megawatts of firm purchases at
9 this time.

10 The planning criteria that we use is based on
11 reserve margin, and we use a 15 percent minimum reserve
12 margin at time of system peak. We do use an integrated
13 resource planning process to integrate both demand and
14 supply side alternatives, and we use a minimum revenue
15 requirement, economics-based analysis to make sure that
16 we have the lowest-cost alternatives available for our
17 customers. We do also take into account all
18 environmental needs so that we are in compliance and
19 acceptable.

20 Other planning issues that many utilities are
21 addressing today, as competition looms, we are shifting
22 from more long-range planning to shorter-range
23 planning. We see the market being very volatile today,
24 and so we need to pay close attention to what's
25 happening in the near term. We are also seeing that

1 demand side management worth is diminishing as energy
2 prices drop. The marketplace is expanding with many
3 new players and opportunities for utilities, and so
4 investments must have shorter paybacks, and energy
5 prices must be competitive for all of our customers,
6 not select groups.

7 Our first graph here on page 4 is just a
8 comparison of the 1995 forecast which was in our '95
9 ten-year site plan, with our latest forecast, and as
10 you can see, we are projecting customer growth to be in
11 excess or -- I'm sorry -- slightly less than the '95
12 forecast. So a slight moderation in total customer
13 growth. We are projecting about 1.8 percent customer
14 growth for our system.

15 Comparing net energy for load in the same manner,
16 we are seeing our net energy for load increase over
17 previous forecasts, about a 2.3 percent growth rate.
18 This is due -- in fact what we are seeing is increased
19 all-electric homes on our system and so our per
20 customer consumption is increasing.

21 Winter peak demand forecast is probably the most
22 significant change in our forecast over past years. We
23 are showing a significant increase in winter peak
24 demand. That is due in part to changing our
25 forecasting methodology to account for slightly cooler

1 temperatures, but we also had a number of large
2 industrial customers who are doubling the size of their
3 operations, and that alone has put or added between a
4 15 and 20 megawatt impact on our system, and so that is
5 being represented here.

6 The growth rate for winter peak, if I didn't
7 mention it, was about 2.8 percent.

8 Summer peak demand, our '96 forecast is indicating
9 a slightly slower rate of growth over the previous
10 forecast, about a 1.9 percent growth in demand.

11 MR. HAFF: Why is there such a substantial
12 difference between the winter and the summer?

13 MR. ELWING: Again, most of that has been the
14 slight change in forecast methodology. I believe our
15 forecasters had been forecasting for minimum
16 temperatures of around 32 degrees in winter, whereas, in
17 the new forecast, they're using 30 degrees. So that
18 does add at least to our size system what looks like a
19 significant chunk of demand. Our summer forecasting
20 methodology has not changed that much. We're
21 remaining at approximately a 97-degree summer peak
22 temperature during forecasts.

23 MR. HAFF: Thank you.

24 MR. ELWING: Lakeland does have DSM on its system.
25 Load management is our primary program, and as you can

1 see here, we are continuing to forecast summer demand
2 reductions. Right now we're slightly above 30
3 megawatts of summer demand reduction, forecasting that
4 to go up in the neighborhood of about 55 megawatts of
5 demand reduction by the end of the ten-year period.

6 Winter demand reduction, we're continuing to see
7 increases there. This past winter we had a little over
8 40 megawatts of reduction and we're forecasting that to
9 increase to slightly over 100 megawatts of on-peak
10 reduction by the year 2006.

11 This next graph gives you an idea of how we stack
12 up on resources meeting the load. The dashed line,
13 "Reliability Target," that is our forecast line plus
14 our 15 percent reserve margin. And so as you can see,
15 throughout time, we meet the 15 percent reserve margin
16 criteria based on the reserve rule, and we are
17 forecasting some capacity additions out after the year
18 2000, which I'm going to speak about in a few moments,
19 and that's the rise in the capacity block that you see
20 in your chart.

21 Likewise, for winter, we see the need for capacity
22 almost immediately, and we have noted that for the
23 past few years, and that was in our 1995 ten-year site
24 plan, and our plans for meeting short-term capacity
25 needs are going to be through purchases. We see the

1 market being very fluid right now and very good for
2 short-term purchases, and so the short-term needs are
3 going to be met through those.

4 Again, we are planning for a sufficient
5 combination of built resources and purchased resources
6 to meet all reliability needs throughout the planning
7 horizon.

8 So again, in very brief summary, how we're going
9 to meet those future needs: Short-term needs for the
10 one to five years will be met through firm purchase
11 contracts. Longer-term needs will be met by a economic
12 base mix of demand side management, purchases and
13 self-build options.

14 I'd like to talk to you for just a moment about
15 one of those self-build options that we have on the
16 drawing board, if you will. Lakeland has been
17 approached with a unique opportunity to perhaps
18 participate in one of DOE's clean-coal-technology
19 projects. We have been selected as a potential site,
20 and so we do have a project being submitted before the
21 DOE, and it is currently at DOE for their review and
22 approval. If approved, this project would be a
23 pressurized circulating fluidized bed project, which
24 is, as I said, one of DOE's new clean-coal-technology
25 projects.

1 The basic concept is to burn coal in a pressurized
2 boiler using some new technologies to get very high
3 efficiencies out of burning coal, very attractive
4 prices, very environmentally good.

5 Just a few brief project highlights, the project
6 as we are envisioning it at this point is a little over
7 200 megawatts of capacity. The net heat rate would be
8 under 9,000 Btu per kilowatt hour. The net cost to
9 Lakeland's customers would be less than \$500 a kW.
10 We're envisioning this as a two-phased project: Four
11 years of permitting and engineering, procurement and
12 construction; and then there's a four-year
13 demonstration phase that DOE requires on these types of
14 projects.

15 The DOE would cost-share in the project, which
16 results in the low cost to Lakeland customers, and
17 Lakeland is currently working with DOE to try to get up
18 to 50 percent cost-sharing for the project, and that
19 would include the four-year demonstration period.

20 Just a few more bullets here about the project.
21 It would burn a wide variety of coal, petroleum coke,
22 some of our lowest cost fuels. This technology is
23 currently being used in Europe and to some extent in
24 the United States, and so it is not a brand-new
25 technology. It is one of our newer ones, but it would

1 be constructed at our Macintosh plant, which is already
2 a coal plant, and so we would be using a lot of
3 existing facilities, also saving on the cost. As I
4 said, it has an extremely low environmental impact, and
5 it's similar to combined cycle technology, in that it
6 uses a gas turbine to pressurize the boiler. The
7 pressurized boiler is where the efficiencies come from
8 in burning the coal.

9 As I said, we're attempting to get DOE approval
10 for cost-sharing on the project to make it viable for
11 our customers.

12 In summary then, the bottom line for Lakeland, at
13 this point in time this would be the most economical
14 alternative for Lakeland customers that we've
15 evaluated. It would be one of the lowest net cost coal
16 plants to build and operate in the state of Florida.
17 It is environmentally friendly as compared to standard
18 coal units, demonstrates new clean-coal technology and
19 would return federal tax dollars back to the citizens
20 of Polk County.

21 That concludes my presentation. Any questions?

22 MR. HAFF: Staff has a couple of questions.

23 What is the -- is there any certainty as to the
24 status of when you're going to know if you have won
25 this grant? If so, I guess, the next step would be to

1 file a need determination with the Commission. How is
2 that falling out?

3 MR. ELWING: Yes, sir; that is correct. As I
4 said, the application is currently on DOE's desk. Of
5 course, when dealing with the federal government, there
6 are no absolute certainties. We are hoping to have
7 some type of response from them prior to September
8 1st. We can't guarantee that. Our feeling is, if we
9 don't have a response by September 1st, we probably
10 won't hear anything until January because of the
11 elections. I think that's just safe to say that.

12 MR. HAFF: I guess, you know, if that becomes the
13 situation, ultimately you're going to be faced with a
14 choice of whether to go ahead with this or to look at
15 something else.

16 MR. ELWING: Yes, sir. We still feel that we have
17 time, based on our '95 ten-year site plan we have
18 submitted that we would not look at or would not
19 consider self-build options until the year 2003, which
20 is sort of our second year of need, if you will, that
21 we would meet the need between now and then with
22 purchases. So we feel like we still have sufficient
23 time to have capacity or even to allow this project to
24 flesh out a little bit better as far as the government
25 is concerned on a yea or nay before we have to

1 establish a drop-dead date.

2 Our analysis up to this point in time shows our
3 next best alternative is gas-fired combined cycle, very
4 similar to what many of the other utilities in the
5 state of Florida are planning. We still feel that we
6 have sufficient planning horizon to accomplish that
7 prior to the 2002-2003 time frame of need.

8 Yes, once -- either way, once we get either an
9 affirmative from the DOE that that project is go, we
10 would be coming to this commission with a notice of
11 need determination. In the event that project is
12 canceled, then we resort back to other technologies.
13 The capacity that we would propose building would more
14 than likely be of sufficient size that would trigger a
15 need hearing, and so we would be coming for that
16 capacity as well.

17 MR. HAFF: Okay. Are there any other questions
18 for the City of Lakeland?

19 Thank you.

20 Our next presentation will be made by the Orlando
21 Utilities Commission.

22 MR. BROOKMAN: Since we don't have a proposed unit
23 addition in the ten-year horizon, I'm just going to
24 give you a brief overview since our last ten-year site
25 plan filing.

1 Stanton 2 came on line, as they said originally,
2 on June 1st, which is on time and well under budget.
3 Stanton 2 is currently 57 million under budget, and
4 when the final books are closed, we expect it to be --
5 that number to increase significantly. The total
6 project took 39 months to complete and more than 70
7 percent of the work force came from central Florida.

8 As you know, Stanton 2 is a joint municipal
9 project, and OUC owns 72 percent of the unit, and
10 since the ten-year site plan filing, we have signed a
11 UPS from Stanton 2, which is consistent with our need
12 hearing and also our ten-year site plan filing.

13 On demand side, we will be issuing an RFP for
14 hardware and software for our direct load control in a
15 few weeks, and this program is expected to be in
16 operation in March of 1997. That's all I have right
17 now.

18 MR. HAFF: Are there any questions for Orlando
19 Utilities Commission?

20 MR. BROOKMAN: Tom Brookman.

21 MR. HAFF: Thank you.

22 Okay. Our final prepared presentation from the
23 utilities will be made by the City of Tallahassee.

24 MR. BRINKWORTH: Commissioners, my name is Gary
25 Brinkworth. I'm the Electric Planning Administrator

1 for the City of Tallahassee. I want to start kind of
2 with a technology apology, sort of. We've got a
3 different kind of presentation that we're going to do
4 this morning with its computer-generated graphics. So
5 I apologize to everybody that's sitting over there on
6 that side of the room not going to be able to see that
7 very well. I'm going to move this cart out of the way
8 so that the Commissioners can see the rest of this.

9 I'd like to start with just a brief overview of
10 the City of Tallahassee's electric system. We serve
11 over 87,000 customers in a 221 square mile service
12 territory in and around the capital city. We are the
13 fourth largest municipal electric utility in Florida.
14 We own and operate about 500 megawatts of generation.
15 In addition, we have firm power contracts of about 100
16 megawatts. To date, our highest peak experienced on
17 the system occurred in February of this year where we
18 reached 533 megawatts.

19 Our system resource needs, as described in the
20 ten-year site plan, you see here in the bar chart. We
21 use a 20-year load forecast technique that utilizes a
22 series of linear regression models that forecast each
23 retail customer class by rate class. We also
24 incorporate some econometric variables into that
25 forecast. In addition, we apply a 17 percent reserve

1 margin based on some of our reliability criterion
2 studies to determine what our resource needs will be
3 for each year.

4 Our summer peak demand growth rate in the 1996
5 ten-year site plan is about 2.12 percent. You see in
6 this bar chart our shortfalls beginning in the year
7 2000 of about 88 megawatts, and by the year 2005, we're
8 up to about 187 megawatts of need. Those needs do
9 include capacity to meet our 17 percent reserve
10 requirement.

11 What you see in this graphic is a little bit of a
12 different perspective on our supply and demand
13 requirements. You see the need shown in the yellow
14 area there, but what you'll notice is our need is
15 actually driven by a couple of things in the year 2000.
16 First, we have a fairly significant drop in purchased
17 power. Our contract with the Southern Company for unit
18 power terminates in May of 2000. We also have a small
19 contract with Entergy Power, Incorporated, that
20 terminates in 2002. There is also some generation
21 reductions that take place, some retirements in the
22 City's generating stations in the out years of this
23 ten-year site plan reporting period.

24 In order to determine what our resource needs
25 would be, we've undertaken an integrated resource

1 planning study, and in order to evaluate what possible
2 resources we might use, we looked at a variety of
3 scenarios or strategies which might be used to meet
4 that need, and here you see the five basic strategies
5 that we considered in the RFP process.

6 Conservation and energy efficiency programs was
7 one of those strategies. We also looked at a series of
8 purchased power kinds of strategies, both short-term
9 purchases which would come off of the evolving
10 open-access power markets, some longer-term firm power
11 purchases. We also looked at a combination strategy
12 that mated up these short-term purchased power with the
13 deferral of possibly a unit addition, and lastly we
14 also looked at building or buying some additional
15 generation.

16 We identified in a previous IRP analysis that the
17 maximum amount of supply side capacity we could take,
18 if it were a unit construction or purchase, would be
19 250 megawatts because of the characteristics of our
20 system.

21 One of the things that we did include in all of
22 the analyses and turned out to be an economic choice in
23 all cases was a DSM portfolio. This DSM portfolio
24 includes both residential and commercial programs.
25 Our portfolio is primarily -- addresses fuel

1 substitution, because we are an electric and gas
2 utility, and so we have a number of programs that move
3 electric load to gas.

4 The contributions from that portfolio, although
5 they're fairly significant for our system, were not
6 enough to defer the need for another supply side
7 resource in the period around the year 2000 because of
8 the significant loss in our purchased-power contracts.
9 This portfolio, which is shown in the ten-year site
10 plan and did come in as cost effective in all of our
11 IRP runs, is the one that the Public Service
12 Commission recently approved in our DSM filing. We are
13 looking at some further enhancements to our portfolio
14 now, including some direct load control programs.

15 As the Commissioners may know, we just completed
16 an RFP process for capacity. We issued the RFP in
17 August of last year, received five external proposals
18 in response to the RFP. The City also placed two
19 options on the table for evaluation. Three of the five
20 external proposals were retained for further
21 evaluation.

22 Because the City put in its own options, we went
23 to some length within the electric utility to separate
24 the bid team that prepared those options from the
25 evaluation team. We also undertook some other

1 procedural adjustments in our normal city RFP process
2 to recognize our exposure to public records requests
3 under Chapter 119. We were able to successfully
4 preserve the confidentiality of both the external
5 proposals and our two internal alternatives.

6 We opened those proposals last November and
7 completed our IRP analysis and screening in April of
8 this year. The City Commission selected a -- the most
9 cost effective resource plan for our future customer
10 needs to be the one that includes the City's own
11 internal project, and I'll tell you a little bit about
12 that project in a minute.

13 Just briefly, on our IRP result, we ran a number
14 of different kinds of studies in order to identify what
15 our least-cost plan should be. We looked at a lot of
16 base-case assumptions. We did some city project cost
17 variation because our external bidders came in with
18 guaranteed prices, and we wanted to test whether or not
19 some of the costs that the City could not lock down and
20 guarantee to itself might change our analysis. So we
21 tested those.

22 We also looked as a set of risk scenarios. We
23 created eight different future circumstances for the
24 electric utility to operate in. Certain things were
25 adjusted, and we tried to see if the plans would

1 change, things like: We considered retail wheeling, we
2 looked at higher load forecasts, we looked at higher
3 prices of natural gas, we looked at limited imports of
4 power into the state of Florida, tested all of our
5 supply and demand side alternatives within those eight
6 futures, and then tried to identify the resource plan
7 or plans that performed best under all of those future
8 conditions.

9 As it turned out, the plan with the City's
10 proposed unit at the Purdom Station performed the best
11 under all of those scenarios. What you see in the
12 middle of this slide is two 20-year present worth
13 revenue requirements plan costs, one for a plan that
14 includes the City's project, one for a plan that
15 includes a project offered by AES, who was the closest
16 external proposal to the City. What you see there is a
17 plan cost difference in PWRR over 20 years of a little
18 over eight percent.

19 In addition, when you look at the specifics of how
20 that plan with the City's project in it compares to our
21 existing operations in Tallahassee, we find that we can
22 improve our system efficiency by a little over 40
23 percent when the new combined cycle unit comes on line
24 in the year 2000, and that, in addition to that, our
25 operating savings on an annual basis are greater than

1 the debt service required to fund that unit. So that
2 helps to tremendously lower our operating costs as well
3 as our fixed costs, and as a result of that, we looked
4 very closely, not only at revenue requirements, but
5 also at total system costs, which include all our debt
6 and our fixed payments, and find that we can -- we
7 would experience an 11-percent reduction in total
8 system costs from the year before the unit comes on
9 line until the year after it comes line.

10 Purdom Unit 8 is the combined cycle unit that
11 forms the basis of this preferred 20-year resource
12 plan. It is added at an existing site on the St. Marks
13 River in St. Marks. It's a 250-megawatt class combined
14 cycle unit. You see the statistics here. It's
15 averaging a heat rate of a little under 7,000 Btu's per
16 kilowatt hour. The capital cost of \$110 million works
17 out to about \$440 a kW, and that capital cost does
18 include an advanced zero-discharge water treatment
19 system that's included in this plant in order to
20 significantly reduce our impacts on the water table in
21 St. Marks and our draws from the St. Marks River.

22 No new transmission facilities are required for
23 this plant. We will be upgrading some of the existing
24 transmission lines that currently connect the Purdom
25 Station to the City's electrical grid.

1 COMMISSIONER DEASON: Let me ask a question on
2 that slide. How is it that your mean heat rate is less
3 than either the summer or the winter?

4 MR. BRINKWORTH The summer and winter heat rates
5 are calculated at very specific ambient temperatures. I
6 think the mean is a calculation based on some operating
7 conditions that are statistically in between summer and
8 winter operating conditions in Tallahassee. We expect
9 the unit to operate somewhere between the 6900 and
10 7,000 Btu per kilowatt hour, and the summer and winter
11 numbers are based on local Tallahassee ambient
12 conditions for the winter and the summer, and the mean
13 is a calculation I believe based on manufacturers'
14 indexes.

15 Just to wrap up our milestones for this particular
16 unit, the Commission will be seeing a need application
17 in December of this year. We expect permitting for
18 Unit No. 8 to be completed in the spring or early
19 summer of 1998. Prior to our final decision to go
20 forward with construction of this unit under the
21 direction of our City Commission, we are going to issue
22 an additional investigation, possibly an RFP or two to
23 test the power market and be absolutely certain that
24 this alternative provides our customers with the lowest
25 power option to meet this new need.

1 That's the end of my prepared presentation. I'll
2 be glad to answer any questions if you have them.

3 MR. HAFF: Yes. Staff has a question.

4 Did you happen to get a chance to review the
5 forecast of the gas prices that we compiled that were
6 passed out today?

7 MR. BRINKWORTH: No, I didn't see that. Do you
8 want me to --

9 MR. HAFF: The munis are on the second page of
10 that.

11 MR. BRINKWORTH: Yeah, okay, I see it.

12 MR. HAFF: I guess we're just -- you know, again,
13 it's just a compilation of the supplemental data that
14 the staff received in the ten-year site plan review,
15 and the City's forecast stands alone as by far lower
16 than any of the reporting utilities, and I guess it's
17 just -- obviously, fuel forecast is the major driving
18 factor behind your decision that Purdom 8 was the
19 least-cost generating alternative, and I guess, in
20 light of some of the other utilities' forecasts on
21 here, I was just wondering if you could explain why, if
22 you have a belief as to why yours is so much lower?

23 MR. BRINKWORTH: I suppose saying we do a better
24 job is not the right answer.

25 MR. HAFF: Of course.

1 MR. BRINKWORTH: No, that's not really true. That
2 forecast is actually the result of some fuel RFP bid
3 responses that we actually have in hand for firm gas
4 delivered to Tallahassee for fixed pricing and periods
5 ranging from ten to 20 years, and so those contracts
6 form the basis of this forecast; and because they're
7 guaranteed and they're firm gas delivered to our area,
8 we felt like we were fairly confident in those numbers.
9 So it's not really a traditional forecast. It's more a
10 response from fuel suppliers to our request for
11 delivery of firm quantities of natural gas.

12 MR. HAFF: Are there any other questions for the
13 City of Tallahassee?

14 Thank you.

15 This concludes the utility presentations of their
16 ten-year site plans, and next on our agenda is to
17 receive any comments from the public or any other
18 interested persons who may want to comment on the
19 utilities' plans as they've been summarized today; and
20 anybody that hasn't already identified themselves, when
21 they make their presentations, please do so.

22 CHAIRMAN CLARK: Mr. Wright.

23 MR. WRIGHT: Thank you, Chairman Clark. Again,
24 Sheff Wright, representing Lee County.

25 Commissioners, this morning you heard the

1 representatives of the three major investor-owned
2 utilities in Florida tell you that they have not
3 reevaluated their DSM programs based on current costs,
4 current avoided costs, at least not across the board
5 since the 1993-1994 time frame.

6 During the same time frame, one utility, Florida
7 Power Corporation, has reevaluated one of its major,
8 probably its actual major DSM program, it's residential
9 load management program, and determined that it was
10 necessary to reduce some of the credits offered through
11 that program and to restrict eligibility in order to
12 assure continued cost effectiveness of that program.
13 The same utility has seen market costs for new
14 generation fall low enough that it deemed it
15 appropriate to solicit buyouts and buydowns of its
16 current power purchase contract obligations via a
17 reverse option RFP. Another utility has petitioned the
18 Commission to approve recovery of costs associated with
19 buying out a previously approved standard offer
20 contract, and FPL has recently submitted a revised
21 proposal for a DSM program, it's Build-Smart program,
22 based on much lower avoided costs than were
23 contemplated in their 1993-1994 analyses.

24 The fact is, Commissioners, that the avoided costs
25 of new generation spurred largely by competition at the

1 supply level have declined significantly in the past
2 two years or so, and, you know, we're not talking about
3 two or three percent. We're talking about 20 to 50
4 percent reductions in avoided generation costs.

5 We have serious doubts as to whether planning
6 processes that do not incorporate a
7 level-playing-field, equal-footing evaluation of demand
8 side and supply side options based on current and
9 consistent planning assumptions and avoided-cost
10 assumptions, will produce optimal, truly integrated
11 resource plans; and, accordingly, we have serious
12 doubts as to whether plans based on those processes can
13 be considered to be suitable. Thank you.

14 CHAIRMAN CLARK: Mr. Wright, you're representing
15 Lee County?

16 MR. WRIGHT: Yes, ma'am.

17 CHAIRMAN CLARK: And you're going to have to make
18 the connection for me with your comments and the County
19 -- and Lee County's interests. What I understand you
20 saying is that we've got to somehow reevaluate DSM and
21 avoided costs on an ongoing basis.

22 MR. WRIGHT: Yes, ma'am.

23 CHAIRMAN CLARK: And how would you propose doing
24 that?

25 MR. WRIGHT: Well, using whatever process the

1 utilities heretofore used to evaluate them on a level
2 playing field using current avoided cost data for all
3 purposes in each annual planning cycle.

4 CHAIRMAN CLARK: I guess -- let me be more
5 specific, Mr. Wright, and I may be a little bit unfair
6 with you because I expect you to be able to come up
7 with answers for me.

8 It just seems to me that we could be in a constant
9 state of analysis, and at some point you have to hold
10 things constant and make some decisions in terms of
11 planning, and I just am having difficulty as to -- I
12 realize that the DSM programs were evaluated a while
13 back, but that was a long, drawn out process, and I
14 don't think we can go through that process
15 continuously. So suggest for me a way to do it that
16 sort of accomplishes what you're suggesting but
17 doesn't have us continually analyzing things and making
18 changes that leave us no time to implement the plans.

19 MR. WRIGHT: Well, what I'm suggesting to you is
20 that I think that you don't have to go through 15 days
21 of hearing and 5700 pages of transcripts to do the
22 analyses. As you know, I was in the case, but what I
23 am suggesting --

24 CHAIRMAN CLARK: Yeah. But, if we do that
25 analysis and then someone thinks it's wrong, then

1 what?

2 MR. WRIGHT: Well, what I would suggest is that
3 the utility probably ought to be doing the analysis,
4 and if they -- you know, if the analysis shows that
5 things have changed -- that if the results of dramatic
6 changes significantly change the cost effectiveness of
7 some of their DSM programs, then something ought to
8 happen, I think. I think either they ought to come in
9 and say, "Y'all, we've got a problem," or y'all ought
10 to say, you know, "We might have a problem here."

11 If the changes in the avoided costs from year to
12 year are two or three percent, then it's no big deal.
13 You could do the analyses or even not do them, but you
14 probably ought to, just to make sure you're continually
15 doing things right, and probably a change of two or
16 three percent is not going to make any significant
17 difference in the ultimate outcome.

18 I suggest probably --

19 MR. GARCIA: I happen to agree with you, and I
20 think that sometimes we do these programs for the sake
21 of doing them as opposed to checking. I'm not saying
22 we have to have a full blown out proceeding, but
23 certainly the company should be checking on the
24 effectiveness of this program, if it's a significant
25 percentage, because doing DSM for the sake of doing DSM

1 is certainly not, I don't think, conducive, and I
2 think Mr. Wright is correct on a limited basis. I
3 agree with you, Madam Chairman, that we don't want to
4 go through a full blown out thing when the percentages
5 are relatively small, but certainly we should be
6 checking to make certain that they're worthwhile doing
7 at all at a certain level.

8 CHAIRMAN CLARK: So what percentage would be
9 significant enough to suggest we do something and, if
10 so, what should we do?

11 MR. WRIGHT: Well, I think the utilities ought to
12 do what they heretofore did, and that is not take DSM
13 as a given on a year-to-year basis, but do the
14 evaluation on then current planning assumptions and
15 then current avoided cost data each year as part of
16 what they represent to be their integrated resource
17 planning processes or their least-cost planning
18 processes and leave it to them.

19 You know, if the results come out that there's no
20 big change, then they can tell you the results came
21 out, there's no big change and nothing should happen.
22 If they do the analyses and the results indicate that
23 there are big changes and that significant portions of
24 programs or total programs are no longer cost
25 effective, then somebody needs to be thinking about it,

1 because obviously, you know, as I said earlier, you
2 want to be doing what the most cost effective thing is,
3 and if your analyses show that you're not doing the
4 most cost effective thing, you need to think about it.
5 I mean, probably you need to do something about it.

6 CHAIRMAN CLARK: Don't they do that when they file
7 their programs? I mean, we've set their goals, and
8 when they would file their programs, they'll be looking
9 at whether it's cost effective.

10 MR. WRIGHT: My understanding and my understanding
11 and interpretation of the responses given to you this
12 morning was that they have not reevaluated -- that none
13 of the three large IOUs in the state have reevaluated
14 their programs since the 1993-1994 time frame analysis
15 that was done for the goals dockets.

16 COMMISSIONER GARCIA: Can staff tell me where he's
17 wrong?

18 MR. FLOYD: Yeah, I don't think Sheff's
19 completely right. This is a complicate issue, but
20 let's just go one by one here.

21 Number one, the utilities are constantly looking
22 at their programs, I know, because I talk to them day
23 in and day out, and they file modifications here and we
24 bring them down for your approval. If staff looks at
25 things and thinks they're getting out of line, we'll

1 come down ourselves or talk to the utilities first and
2 see if they can modify programs, or we'll put them on
3 notice that we're looking at this. Of course, issues
4 can be raised at any time at the annual cost recovery
5 hearings that we have. If we hear from Sheff or
6 anybody else that there's a problem with a particular
7 program, we will look at it and we do look at it.

8 I will say this, just technically, just because
9 avoided costs go down does not necessarily mean that
10 programs will become non cost effective, because you
11 might have moved closer to the unit and the
12 installation that you're making are still cost
13 effective. So it's not as simple as saying, "Avoided
14 costs have gone down, we need to reevaluate all these
15 programs."

16 There is a practical side to it that Commissioner
17 Clark pointed out, when you gear up and advertise that
18 you have a certain program, ceiling insulation or
19 whatever, you can't just start and stop those things
20 every six months or even every year, so you have to
21 take the practicality into account, but I assure you,
22 Commissioners, we're looking at this -- we have a
23 conservation sub-unit, you might call it. We look at
24 these numbers all the time, and if somebody has a
25 program that they think is not cost effective, we would

1 like to know about it and would bring it to your
2 attention. We don't want to necessarily go in and set
3 goals every year, but the programs, themselves -- the
4 utilities may not have looked at it on a wholesale
5 basis on all their programs as a package, but they do
6 look at individual programs on an ongoing basis. At
7 least that's my pretty well educated understanding of
8 the situation.

9 MR. WRIGHT: That he may or may not be true, but
10 that's not what I heard them say this morning, with the
11 exception of Florida Power reevaluating the load
12 management program, and I don't disagree with you,
13 Roland, that just because avoided costs change -- you
14 made the statement that just because avoided costs
15 change doesn't mean cost effectiveness won't
16 necessarily be affected. I don't disagree with that
17 statement at all. I think when the avoided cost
18 changes are dramatic, as they have been over the last
19 two years, however, that the analyses ought to be done
20 and the results looked at, and my understanding is that
21 the analyses have not been done, and I think that's
22 what you were told this morning.

23 MR. FLOYD: Well, I think that the Commission --
24 and the Commissioners will speak for themselves, but
25 this commission, at least historically, has put the

1 utilities on notice that they are under continual
2 obligation to review their programs and bring them up
3 here and get them modified if they're not cost
4 effective, just as I know Florida Power did with its
5 load management program. I can't think of other
6 examples right off the top of my head, but I know there
7 have been other modifications that we've brought down
8 here in the last year on modifications of utility
9 programs, plus new programs based on new avoided
10 costs.

11 COMMISSIONER GARCIA: Mr. Wright, I think staff's
12 issued a challenge, if you can find one that's not
13 working.

14 MR. WRIGHT: That's all I had.

15 If you had some more questions, I'd be happy to
16 address them.

17 CHAIRMAN CLARK: Well, I was just curious as to
18 what Lee County -- are they concerned that the DSM
19 programs that people in their county are required to
20 implement are not cost effective or --

21 MR. WRIGHT: Yes. Lee County's concerned in two
22 regards. One, they're concerned that programs that
23 they, as a significant customer and that their citizens
24 as customers are paying for are not cost effective.
25 They also, frankly, have capacity at a 40 megawatt

1 waste-to-energy facility that they would like to sell
2 on a capacity basis, and they would like to be
3 evaluated on a fair, consistent, current-avoided-cost
4 basis against all options.

5 CHAIRMAN CLARK: Okay. Thanks.

6 Ms. Kamaras.

7 MS. KAMARAS: We're wrap-up batter. I handed out
8 some materials to the Commissioners and the reporter.
9 I apologize for not having extra copies. We're a
10 low-budget operation, but if anybody wants what we
11 handed out, if they'll give me their card, I'll make
12 sure they get it.

13 I'd love to enter into the debate here with Sheff
14 on this issue, but in the interests of time I will not,
15 except to say that some of the avoided cost data that's
16 been provided in some cases is low-ball. I think you
17 saw some things on the fuel side this morning that
18 suggest that there may be some overly optimistic
19 estimations of what avoided cost really is.

20 Let me just say that our remarks focus on two
21 things. One is the whole deregulation arena and the
22 fact that we strongly believe that, even in a more
23 competitive, less regulated scheme that we seem to be
24 slowly slogging our way into, that there still is a
25 need for planning and there will still be regulated

1 entities that require resource planning and that will
2 require, we believe, continued government oversight to
3 ensure that that planning is done properly.

4 We, obviously, continue to have some problems with
5 the ten-year site plan process as not being what we
6 consider to be a real integrated resource planning
7 process, and we believe that there needs to be some
8 increased use of methodologies to look at both direct
9 and indirect costs and benefits of resource options,
10 such as renewable resources, the environmental costs of
11 new and existing resources, risks related to changes in
12 economic conditions or changes in future environmental
13 regulation, and other means.

14 Planning methodologies have been one of the
15 primary barriers to renewable resources. I think, as
16 the presentations went forward this morning I did not
17 once hear the word "renewable." If somebody said it
18 and I missed it, I apologize, but we're sitting in a
19 state that has a potential for solar energy and we just
20 don't have any at this point, and we're not going to
21 have a sustainable energy future as we're getting into
22 more concerns about global warming and other issues,
23 where we are so coal and petroleum based.

24 We've got to have an energy future that's based on
25 sustainable resources, and we don't think that this is

1 just a nice social policy. We think it's a hard-ball
2 economic policy for Florida's future, both in terms of
3 keeping our energy dollars in the state and increasing
4 the number of jobs and economic development. I would
5 note that the Florida Legislature this past session
6 included as part of their economic development package
7 a reinstatement of the tax exemption for solar
8 components.

9 As I mentioned previously, we have some problems
10 with the avoided cost data. Some of the forecasting
11 models we see also are using some outdated data based
12 on 1988 and 1990 information regarding residential
13 appliance and forecast data, and we think that there
14 are some problems with that as well.

15 We've included some other written comments, and in
16 the interests of getting everybody out of here, I won't
17 go into those, but I hope that the Commission has an
18 opportunity to read those. I would also point out that
19 some of the regional planning councils, from year to
20 year, continue to have some concerns with this planning
21 process and with the deficits in it. I have a copy
22 here of the Treasure Coast Regional Planning Council
23 letter; and again, I would just urge the Commission to
24 look at what the planning councils are saying
25 concerning the energy planning in the state of

1 Florida.

2 We -- I understand that the Commission is
3 constrained by a weak statute, but I would certainly
4 urge you to maximize the authority that you have under
5 that statute to try to ensure that we're planning for a
6 sustainable energy future in this state where we have
7 such tremendous growth. Thank you.

8 CHAIRMAN CLARK: Thank you, Ms. Kamaras.

9 Anyone else have any comments they'd like to make
10 at this time?

11 Staff, is there anything you want to say by way of
12 closing remarks?

13 MR. HAFF: I just wanted to add that we -- if I
14 there are any written comments, that we get a copy so
15 we can incorporate it in our review, and, Mr. Wright, I
16 don't know if you had anything written, but if you --
17 if not, if you're able to summarize it and present it
18 to us, we can incorporate it in our final review.

19 I just wanted to note, I guess, in closing that
20 we're in the process of writing the review of the
21 plans. We plan to bring it to you in late November at
22 internal affairs for your consideration at that time.

23 CHAIRMAN CLARK: Thank you.

24 Anything else, Commissioners?

25 I'd like to thank everyone for coming to the

1 workshop and presenting their comments.

2 This workshop is adjourned.

3 (Whereupon, the proceedings were concluded at

4 12:45 p.m.)

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C E R T I F I C A T E

STATE OF FLORIDA)

COUNTY OF LEON)

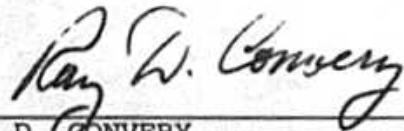
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Dated this 2nd day of August, 1996.



RAY D. CONVERY
Court Reporter

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