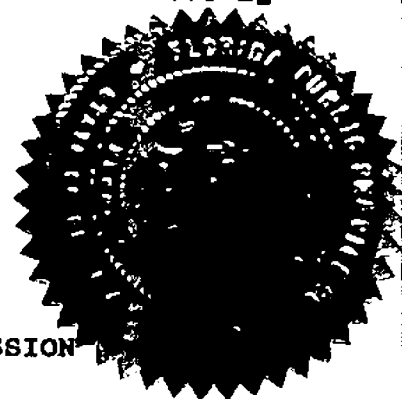


BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of : DOCKET NO. 941101-EQ

Petition for determination that :
plan for curtailing purchases :
from qualifying facilities in :
minimum load conditions is :
consistent with Rule 25-17.086, :
F.A.C., by FLORIDA POWER :
CORPORATION. :



THIRD DAY - AFTERNOON SESSION

VOLUME 7

Pages 876 through 1026

PROCEEDINGS:

HEARING

BEFORE:

CHAIRMAN SUSAN F. CLARK
COMMISSIONER J. TERRY DEASON
COMMISSIONER JULIA F. JOHNSON
COMMISSIONER DIANE K. KIESLING
COMMISSIONER JOE GARCIA

DATE:

Wednesday, May 10, 1995

TIME:

Commenced at 9:30 a.m.
Concluded at 1:25 p.m.

PLACE:

FPSC Hearing Room 106
Fletcher Building
101 East Gaines Street
Tallahassee, Florida

REPORTED BY:

JOY KELLY, CSR, RPR
Chief, Bureau of Reporting
Official Commission Reporter

APPEARANCES:

(As heretofore noted.)

DOCUMENT NUMBER-DAT

FLORIDA PUBLIC SERVICE COMMISSION

04948 MAY 23 1995

FPSC-RECORDS/REPORTS

I N D E X

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P R O C E E D I N G S

(Transcript continues in sequence from Volume 6.)

CHAIRMAN CLARK: Ms. Brousseau.

- - - - -

LINDA D. BROUSSEAU.

was called as a rebuttal witness on behalf of Florida Power Corporation and, having been duly sworn, testified as follows:

D I R E C T E X A M I N A T I O N

BY MR. MCGEE:

Q Would you give us your name and business address for the record, please?

A My name is Linda Brousseau. My address is P. O. Box 14042, St. Petersburg, Florida.

Q What's your capacity with Florida Power?

A I'm the Manager of Power Supply at Florida Power's Energy Control Center.

Q Do you have before you a document entitled, "Rebuttal Testimony of Linda D. Brousseau"?

A Yes, I do.

Q And is that a document consisting of 27 pages and two attached exhibits?

A Yes, sir.

Q Was the prepared rebuttal testimony prepared by you as your rebuttal testimony for this proceeding today?

A Yes.

1 Q Do you have any additions or corrections that you'd
2 like to make to your prepared rebuttal testimony?

3 A No, I do not.

4 Q If you were to ask you the questions today that are
5 contained in your prepared testimony, would your answer be the
6 same?

7 A Yes, it would.

8 MR. MCGEE: Madam Chairman, we ask that
9 Ms. Brousseau's prepared testimony be inserted into the record
10 as though read.

11 CHAIRMAN CLARK: Ms. Brousseau's rebuttal testimony
12 will be inserted into the record as though read.

13 MR. MCGEE: The two exhibits that are attached to
14 your testimony as LDB-1 and LDB-2, were those prepared by you
15 or under your direct supervision and control?

16 A Yes, they were.

17 Q Do you have any additions or corrections that you
18 would like to make to either of those exhibits?

19 A There are none.

20 MR. MCGEE: Madam Chairman, we'd ask they be marked
21 for identification.

22 CHAIRMAN CLARK: They'll be marked as Exhibit 16.

23 (Exhibit No. 16 marked for identification.)
24
25

**FLORIDA POWER CORPORATION
DOCKET No. 941101-EQ**

**REBUTTAL TESTIMONY OF
LINDA D. BROUSSEAU**

I. INTRODUCTION AND PURPOSE

1

2

3

Q. Please state your name and business address.

4

**A. My name is Linda D. Brousseau. My business address is Post Office
Box 14042, St. Petersburg, Florida 33733.**

5

6

7

Q. By whom are you employed and in what capacity?

8

**A. I am employed by Florida Power Corporation ("Florida Power" or "the
Company") as Manager of Power Supply.**

9

10

11

Q. Please describe your duties as Manager of Power Supply.

12

**A. I am responsible for the day-to-day scheduling of generation and bulk
power interchange resources to meet Florida Power's system demand
in a reliable and economic manner. I represent Florida Power as a
member of the Operating Committee of the Florida Electric Coordinating
Group on which I am the designated State Capacity Emergency
Coordinator. I also participate in the Operating Committee of the
Southeast Electric Reliability Council as the Florida Power alternate
member. In these capacities I also serve on various subcommittees and
task forces as needed.**

13

14

15

16

17

18

18

20

1 **Q. Please describe your educational and professional experience.**

2 **A. I received a Bachelor of Science Degree in Chemical Engineering from**
3 **the University of South Florida in 1985.**

4
5 **During the 1981-1985 time period, I was a Co-operative Education**
6 **student at Florida Power. I performed a variety of assignments in**
7 **Florida Power's Fossil Engineering Department and also worked at**
8 **Florida Power's Anclote Plant.**

9
10 **Upon graduation in 1985, I returned to Florida Power as an Engineer 1**
11 **in the Engineer In Orientation Program (EIO). I worked again in Fossil**
12 **Engineering and at the Bartow Plant. My duties included preparation of**
13 **engineering studies and related activities. At the Bartow Plant, I**
14 **coordinated and supervised two major projects during a unit**
15 **maintenance outage.**

16
17 **In 1986, I became a Test Engineer in Florida Power's Plant Performance**
18 **Department. My duties included the coordination, preparation and**
19 **testing of fossil steam unit performance.**

20
21 **In 1987, I was promoted to the position of Energy Efficiency Programs**
22 **Coordinator in Florida Power's Customer Service and Marketing**
23 **Department. I provided staff support to field engineers on all of Florida**
24 **Power's residential and commercial conservation programs.**

1 In 1988, I was promoted to Project Engineer at Florida Power's Energy
2 Control Center. My primary responsibilities were to perform daily
3 operational and short-term planning studies to support the activities of
4 the Power Supply Department.

5
6 I was promoted in 1991 to Supervisor of Power Supply Scheduling at
7 Florida Power's Energy Control Center. In that capacity I was
8 responsible for the development of the daily system generation and
9 interchange schedules.

10
11 In 1992, I was promoted to Supervisor of Power Supply at Florida
12 Power's Energy Control Center. The responsibilities in that position
13 were the same as those I have today; however, I was named Manager
14 of Power Supply in 1995.

15
16 **Q. Do you hold any professional certifications or licenses?**

17 **A. I am a registered Professional Engineer in the State of Florida. I became**
18 **registered in 1991.**

19
20 **Q. Are you sponsoring any exhibits with this rebuttal testimony?**

21 **A. Yes. I am sponsoring Exhibits 16 (LDB-1) and 16(LDB-2).**

22
23 **Q. What is the purpose of your rebuttal testimony?**

24 **A. I will respond to the supplemental testimony filed on April 25, 1995 by**
25 **Mr. Kenneth Slater on behalf of Orlando Cogen, L.P. and Pasco Cogen,**

1 Ltd. (jointly "OCL/Pasco"). Mr. Slater's testimony questions the Unit
2 Commit simulations which Florida Power developed for each of the first
3 seven curtailment events and the conclusion that negative avoided costs
4 would have existed during each event in the absence of curtailments.
5 The results of those simulations were discussed in the direct testimony
6 of Florida Power witness Henry I. Southwick. Mr. Slater advances his
7 own interpretation of what the Unit Commit runs should have shown,
8 in an effort to establish that negative avoided costs would not have
9 existed for the seven events.

10
11 I will respond to Mr. Slater's assertions and results, and I will present
12 and discuss a set of amended computer simulations which we have
13 prepared as a result of our review of Mr. Slater's comments. I will
14 show that OCL/Pasco have not in any way undermined the credibility of
15 the Company's original avoided cost conclusions. The revised
16 simulations continue to demonstrate that negative avoided costs would
17 have been incurred if the QFs were not curtailed.

18
19 **II. GENERAL REBUTTAL TO**
20 **OCL/PASCO'S SUPPLEMENTAL TESTIMONY**

- 21
- 22 **Q. Please begin by summarizing Florida Power's direct evidence on the**
23 **question of negative avoided costs.**
- 24 **A. As explained in Mr. Southwick's direct testimony (at pages 35-40)**
25 **Florida Power used three ways to illustrate that, when a minimum load**
26 **condition is approaching, its system operating personnel can predict**

1 with a high degree of confidence (if not certainty) that cycling off a coal
2 unit in order to continue the purchase of QF energy would cause the
3 Company to incur higher system costs than it would incur if it curtailed
4 the QF purchases and continued to operate the coal unit at its minimum
5 generation level.
6

7 **Q. What was the first of these three illustrative approaches?**

8 **A. First, we explained in a conceptual way what I believe to be a self-**
9 **evident proposition -- that cycling off a baseload unit to continue QF**
10 **purchases necessarily will produce negative avoided costs because the**
11 **combination of unit start-up costs and replacement power costs must**
12 **produce a negative avoided cost whenever they exceed the fuel savings**
13 **from not generating the energy at issue with Company units. We noted**
14 **that both the FERC and this Commission seemed to accept this**
15 **proposition as a given when they explained the rationale for their**
16 **curtailment rules. We also showed that the negative avoided cost**
17 **impacts can only be increased (i.e., become more negative) when one**
18 **considers the additional per cycle unit impact costs described by Mr.**
19 **Lefton.**
20

21 **Q. What was the second approach used by the Company to illustrate the**
22 **negative avoided cost phenomenon?**

23 **A. In the second approach, we related the clear conceptual proposition to**
24 **the seven initial curtailment events to illustrate that the proposition rang**
25 **true for each event. We did this by examining the actual amount of**

1 excess generation on each of the seven occasions, the amount of
2 baseload generation that would have been curtailed to balance the
3 generation and load without curtailments, and the net avoided cost
4 impacts considering fuel savings, unit start-ups, replacement power
5 costs and unit impact costs. For each of the seven events, we
6 established that cycling off a coal unit to prevent QF curtailments would
7 have cost the Company (and its ratepayers) more money than under the
8 curtailment option.

9
10 **Q. Please describe the third illustrative approach.**

11 **A. Although each of the first two methods of evaluating negative avoided**
12 **costs seemed logically unassailable, we opted to develop still another**
13 **way to illustrate the point. This led to the Unit Commit simulations**
14 **which were described in Mr. Southwick's testimony and challenged in**
15 **Mr. Slater's testimony. Those simulations were an attempt to illustrate**
16 **after-the-fact what we knew and were forced to act on before-the-fact**
17 **-- that the Company would incur greater costs if our dispatchers cycled**
18 **off baseload generation instead of requesting curtailments in accordance**
19 **with the Curtailment Plan.**

20
21 We attempted to illustrate this effect after-the-fact by using readily
22 available Unit Commit runs which had been developed during the normal
23 course of business for as-available energy payment purposes. This
24 "Base Case" set of computer runs was chosen as a reasonable proxy for
25 how the system was operated with the actual curtailments that were

1 requested. We then compared the Base Case runs to a comparable set
2 of "Change Case" computer runs which were developed to approximate
3 system conditions as if no QF curtailments had been made. A
4 comparison of the Base and Change Cases served as a further
5 corroborating illustration of the principle that we knew to be true --
6 failure to curtail would have resulted in negative avoided costs for each
7 of the seven curtailment events.

8
9 **Q. What are your general impressions of Mr. Slater's response to the**
10 **Company's analysis of the avoided cost issue?**

11 **A. I will repeat a point made by both Messrs. Southwick and Dolan. The**
12 **OCL/Pasco testimony reveals much more in what it *doesn't* say than in**
13 **what it does say. Neither Mr. Shanker nor Mr. Slater has offered one**
14 **word of testimony to dispute the basic conceptual point made by Florida**
15 **Power -- *i.e.*, that we can predict with great confidence the likelihood**
16 **of negative avoided costs during minimum load conditions whenever the**
17 **choice is to cycle off baseload generation instead of making QF**
18 **curtailments. In fact, Mr. Shanker accepts this proposition as being true**
19 **when he says that the curtailment rules were intended to address**
20 **conditions "during which a utility would, absent curtailment, have to**
21 **turn off its own base load generation due to QF purchases, resulting in**
22 **net increased operating costs (i.e., "negative avoided costs").** (Shanker,
23 page 24).

1 Similarly, neither Mr. Shanker nor Mr. Slater mentioned or refuted Mr.
2 Southwick's second analytic method for illustrating the negative avoided
3 cost problem -- that is, the case-by-case manual quantification of unit
4 start-ups, replacement power costs and unit impact costs, as described
5 at pages 37-39 of Mr. Southwick's direct testimony and shown
6 numerically in his Exhibit 16 (HIS-3), pages 2 of 3.

7
8 Because OCL/Pasco were unable to fault the principle established by
9 Florida Power (and accepted by both the FERC and this Commission),
10 Mr. Slater turned his attention to a piecemeal criticism of the
11 Company's illustrative Unit Commit simulations. This shift in focus is
12 simply a back-door attempt to shed doubt on the undisputed principle
13 by attempting to poke holes in one of the illustrative examples offered
14 by Florida Power.

15
16 **Q. Has Mr. Slater cast any real doubt on the Company's ultimate avoided
17 cost conclusions?**

18 **A. No.** Even ignoring the fact that Mr. Slater offered no criticism
19 concerning much of Florida Power's avoided cost testimony, his Unit
20 Commit criticisms do not prove his conclusion that the Company was
21 wrong in its evaluation of the negative avoided cost issue. Mr. Slater
22 has suggested a number of changes to the Unit Commit runs. I will
23 discuss each of his proposed changes individually, but I note initially
24 that only one group of his proposed changes, having to do with the
25 correction of minor inconsistencies in the input data for the computer

1 runs, has any merit at all. Moreover, I would like to re-emphasize the
2 limited purpose for which these simulations were intended in this case,
3 *i.e.*, to illustrate and thereby corroborate the basic point which the
4 Company amply established by other means and which OCL/Pasco have
5 not refuted.

6
7 I would also like to emphasize the fact that computer programs do not
8 run the Florida Power system or any other utility system. People run the
9 system using the information they can glean from computers and other
10 sources coupled with their extensive knowledge of system capabilities,
11 reliability issues, cost constraints, and current as well as projected
12 operating conditions. Before a minimum load condition materializes, the
13 Company's system operating personnel have access to planning data,
14 weather service forecasts, real-time information on system conditions,
15 and the hands-on experience of seasoned system operators. When a
16 problem is expected to arise, corrective actions must be taken up-front,
17 based on expected outcomes. This is true of all day-to-day system
18 operating decisions. For example, the state of Florida uses forward-
19 looking procedures to deal with capacity shortages through a specific
20 plan approved by this Commission and implemented through the Florida
21 Electric Coordinating Group. The need for forward-looking
22 decisionmaking is no less critical with respect to curtailment decisions.
23 The Curtailment Plan operates, as it must, from the information which
24 can be reasonably gathered by the system operating personnel *before*
25 the minimum load problem is allowed to materialize, and from the

1 knowledge that cycling off baseload generation would result in
2 increased net operating costs.

3
4 The Unit Commit simulations are not, and could not be, exact snapshots
5 of what happened on the system with curtailments and what would
6 have happened in the hypothetical world where no curtailments took
7 place. Rather, they attempt to simulate reasonable operating scenarios
8 in order to give an unbiased picture of the expected directional effect on
9 avoided costs of curtailing versus not curtailing QF energy deliveries.
10 The biggest difficulty in Mr. Slater's testimony is that he proposes to
11 manipulate the Unit Commit cases in ways that bring them far further
12 from the goal of reflecting actual conditions rather than closer.

13
14 **Q. Has Florida Power developed new Unit Commit simulations in response**
15 **to Mr. Slater's testimony?**

16 **A. Yes. As I have said, Mr. Slater did correctly identify one type of error**
17 **which we acknowledge and have therefore corrected. Also, in**
18 **reviewing the original Unit Commit runs, we discovered several other**
19 **items which we have adjusted to make the simulations more accurate**
20 **and realistic. I will discuss these later in my testimony.**

21
22 **Q. Please respond to Mr. Slater's claim that, when "properly" developed,**
23 **the Unit Commit runs would show a positive avoided cost for each of**
24 **the seven curtailment events.**

1 A. Mr. Slater is wrong. He could only reach this conclusion by
2 manipulating data in unreasonable and unrealistic ways. When we
3 prepared corrected Unit Commit cases, they again corroborated the
4 conclusion that, without curtailments, Florida Power would have
5 incurred negative avoided costs during each of the curtailment events.
6 The results of the revised Unit Commit runs are summarized in my
7 Exhibit 16 (LDB-1).

8
9 I will explain why these Unit Commit runs make sense and why Mr.
10 Slater's alternative runs do not make sense. However, the Commission
11 should not lose sight of the fact that OCL/Pasco have focused their
12 efforts and criticisms exclusively on a battle over the minute details of
13 computer simulations that are, in fact, only one of several illustrations
14 offered by the Company to show the negative avoided cost
15 phenomenon.

16
17 **III. REBUTTAL TO MR. SLATER'S**
18 **CRITICISMS OF THE UNIT COMMIT SIMULATIONS**

- 19
20 Q. What changes did Mr. Slater make to the Unit Commit simulations
21 originally presented in Exhibit 1 (HIS-3), page 1 of 37
- 22 A. Mr. Slater made four types of changes to these simulations: (1) changes
23 to the computer source code for the Unit Commit program; (2)
24 correction of inconsistencies in the input data for individual cases; (3)
25 changes that altered the dispatch of units in several of the cases; and

1 (4) a change that Mr. Slater refers to as "longer time frame analyses."
2 Each of these groups of changes needs to be considered individually.
3

4 **Q. Did Mr. Slater's changes to the Unit Commit source code have any**
5 **significant effect on the results of the simulations?**

6 **A. No. Mr. Slater revised a number of source code statements to**
7 **accomplish what he has referred to as "clean up" measures needed to**
8 **convert Unit Commit from a mainframe to a PC computing environment.**
9 **However, these changes are irrelevant to Mr. Slater's criticisms because**
10 **the Unit Commit runs produce virtually the same results with and**
11 **without these changes. They should therefore be ignored in this case.**
12

13 **Q. Turning to Mr. Slater's second category of adjustments, what**
14 **inconsistencies did he claim to identify in the input data for individual**
15 **Unit Commit cases?**

16 **A. Mr. Slater utilized a program to automatically compare the input data**
17 **used for the Base Case versus the Change Case in each of the seven**
18 **simulations. The results of his automated comparison led him to**
19 **conclude that there were three differences in input data that had been**
20 **introduced inadvertently during the original development of these**
21 **simulations: (1) start-up fuel for coal units appeared to be missing from**
22 **five cases, including January 1 (Change Case), January 2 (Change**
23 **Case), January 14 (Base and Change Cases), and January 30 (Change**
24 **Case); (2) in the January 2 simulation the starting point for the Crystal**
25 **River 5 heat rate curve was set at 300 MW in the Base Case versus**

1 150 MW in the Change Case; and (3) in the October 19 simulation the
2 University of Florida cogeneration unit showed a 10 MW minimum
3 operating level in the Base Case and a 12 MW minimum operating level
4 in the Change Case in that unit's heat rate curves.

5

6 **Q. What did Mr. Slater change in the input data to correct for these**
7 **inconsistencies?**

8 **A. Mr. Slater made the following adjustments: (1) he added start-up fuel**
9 **for coal units in all five of the cases listed above; (2) in the January 2**
10 **simulation, he set the starting point for the Crystal River 5 heat rate**
11 **curve at 300 MW in the Change Case to conform to the number shown**
12 **in the Base Case; and (3) in the October 19 simulation, he set the**
13 **minimum operating level for the University of Florida unit at 10 MW in**
14 **the Change Case, again to conform to the number shown in the Base**
15 **Case.**

16

17 **Q. Was Mr. Slater correct in believing that he had identified inconsistencies**
18 **in the input data for individual computer runs?**

19 **A. Yes and no. Our review has determined that start-up fuel costs were**
20 **inadvertently omitted from the input files provided to Mr. Slater for the**
21 **January 2 Change Case and the January 14 Base and Change Cases,**
22 **but that the corresponding simulations performed by the Company and**
23 **used to support Exhibit 7 (HIS-3), page 1 of 3, did include the correct**
24 **start-up fuel costs for the coal units.**

1 With this exception, the Company has verified that the remaining
2 inconsistencies identified by Mr. Slater did exist in the runs performed
3 by the Company as reflected in Exhibit 7 (HIS-3), page 1 of 3, and as
4 provided to Mr. Slater. The Company agrees that the start-up fuel costs
5 should be included in those cases where the costs were missing.
6 However, we disagree with Mr. Slater's "corrections" for the other two
7 inconsistencies which he identified. The minimum capacity on the heat
8 rate curve for Crystal River 5 should be consistently reflected in the
9 simulations as 150 MW, rather than 300 MW as Mr. Slater assumed.
10 Similarly, the University of Florida unit heat rate curve should be shown
11 consistently with its minimum capacity level of 12 MW, rather than 10
12 MW as Mr. Slater assumed. The Company has used the correct
13 numbers on its amended Unit Commit runs as I will discuss later.

14

15 Q. In his third category of adjustments, what additional changes did Mr.
16 Slater make to alter the dispatch of units in several of the Unit Commit
17 cases?

18 A. Mr. Slater made three types of changes that affect unit dispatch. First,
19 in several of the Base Case runs he unilaterally removed the must-run
20 status of several units thereby cycling off units that actually were
21 shown to be on-line in the Company's Base Case runs. Second, in three
22 of the Change Case runs, Mr. Slater elected to eliminate an off-on cycle
23 for Crystal River 1. Third, for January 14, Mr. Slater put Crystal River
24 2 on maintenance status in both the Base and Change Cases.

1 **Q. Why did Mr. Slater remove the must-run status of units in his Base Case**
2 **runs when they were shown to be operating in the Company's Base**
3 **Case runs?**

4
5 **A. In Mr. Slater's direct and supplemental testimony he noted the existence**
6 **of "excess" generation in several of the Base Cases prepared by the**
7 **Company. He improperly construed this as an opportunity to eliminate**
8 **the perceived excess generation condition in these Base Case runs by**
9 **allowing a baseload unit to cycle off although the Company had shown**
10 **the unit to be operating during that period.**

11
12 **Q. Do you agree with the manner in which Mr. Slater eliminated the**
13 **perceived excess generation condition?**

14 **A. No. I strongly disagree with these changes by Mr. Slater. The baseload**
15 **units that were allowed to be cycled off by Mr. Slater were actually on-**
16 **line and operating during the periods in question. Given that the**
17 **purpose of the Base Cases was to approximate what actually occurred**
18 **on the Florida Power system during the time period surrounding the**
19 **curtailment events, it is not appropriate to introduce changes that depart**
20 **significantly from actual conditions under the guise of correcting a**
21 **problem with the runs.**

22
23 **The entire purpose of these simulations was to evaluate the curtailment**
24 **of QF energy as an alternative to cycling off baseload units. Mr. Slater**
25 **has defeated this purpose by creating Base Cases that erroneously show**

1 operating units to have been cycled off when in fact they were not. For
2 example, two of the modified scenarios prepared by Mr. Slater (for the
3 January 8 and January 14 events) include unit shutdowns and cycling
4 costs that are identical for both the Base Cases and Change Cases.
5 Clearly, it is impossible to carry out the intended comparison if one of
6 the alternatives at issue is falsely assumed to exist identically in both
7 cases.

8
9 Having reviewed the Unit Commit simulations in light of Mr. Slater's
10 testimony, the Company has determined that the perceived energy
11 imbalances noted by Mr. Slater can be easily explained if one
12 understands the underlying formulation of these Unit Commit runs.
13 Once understood, it is clear that no adjustments are needed because
14 there is no error in need of correction.

15
16 Q. Please explain the nature of these apparent excess generation
17 conditions.

18 A. The Company has identified two primary factors contributing to the
19 excess generation conditions reported in the Unit Commit runs. The
20 first cause resulted from the fact that baseload generating units in some
21 instances were actually operated *below* their normal minimum
22 generation levels in an effort by our system operators to mitigate the
23 need for curtailments. This is consistent with the procedures in the
24 Curtailment Plan, but the computer simulations did not correctly reflect
25 these mitigation efforts. Instead, the simulations assumed that each

1 unit was operating at a level no lower than its normal minimum. This
2 discrepancy contributed to the appearance of excess generation and has
3 been corrected in our amended Unit Commit runs, as discussed later in
4 my testimony.

5
6 The second contributing factor to the apparent excess generation
7 conditions is the fact that economy sales were excluded from the runs
8 because the cases were derived from as-available billing data. Economy
9 sales have been reviewed and the Company has concluded that it is
10 appropriate to continue to exclude economy sales (with the sole
11 exception of Florida Power's sales to the Southeastern Power
12 Administration's Carters Dam Project) as discussed later in my
13 testimony. Taken together, these factors account for substantially all
14 of the excess energy conditions identified by Mr. Slater.

15
16 **Q. Mr. Slater suggested in his direct testimony that generation excesses of**
17 **11 MW or so presented "significant problems" with the Company's Unit**
18 **Commit runs. Is there any merit to this contention?**

19 **A. No. Even apart from the reasons for apparent energy imbalances that**
20 **I just explained, I would not consider an overall imbalance of 11 MW or**
21 **so to be a problem, let alone a significant problem. Given the**
22 **imprecision in predicting the magnitude of an excess generation**
23 **condition in advance of the event and the lack of operating control over**
24 **the QF units, no one should expect that we can always accomplish an**
25 **exact match between generation and load throughout the minimum load**

1 period. In fact, 11 MW is well within the range of normal control error.
2 Under governing NERC criteria, Florida Power is allowed an operating
3 margin of 30 MW above or below an Area Control Error ("ACE") of zero.
4 Turbine valve fluctuation on generating units, meter errors, and similar
5 operating imprecision can account for discrepancies of 11 MW or more.
6

7 **Q. What is your response to Mr. Slater's last assertion that Florida Power**
8 **has used an improper short time frame of analysis to evaluate the**
9 **curtailment events?**

10 **A. Florida Power strongly disagrees with Mr. Slater's assertion. We find**
11 **the entire concept of a "longer time frame analysis" as advocated by**
12 **Mr. Slater to be arbitrary, illogical and self-serving. As Mr. Southwick**
13 **explained in his rebuttal, Florida Power's analyses all were based on a**
14 **time frame of sufficient length to capture the significant costs related**
15 **to each curtailment event.**

16
17 It should be stressed that Mr. Slater is not merely proposing that the
18 comparative cases be run for longer time periods in order to capture
19 possible cost impacts that could be overlooked by a shorter time frame.
20 Mr. Slater is actually proposing that the study analyze the maximum
21 curtailment of QF energy as if Florida Power had asked to have the
22 maximum level of curtailment sustained for an entire week rather than
23 for a few hours as was actually the case. In other words, Mr. Slater
24 maintains that the evaluation must be based on an event that did not
25 take place, that is dramatically different from the curtailment event that

1 did take place, and that would not have taken place under any plausible
2 set of circumstances. Mr. Slater's analysis would include the
3 curtailment of QF energy around-the-clock and through on-peak periods
4 -- actions that the Company has never taken and does not contemplate
5 taking.

6
7 **Q. In what way is Mr. Slater's longer time frame analysis self-serving?**

8 **A. Mr. Slater's proposed longer time frame analysis could have only one**
9 **underlying purpose and rationale. By arbitrarily proposing to expand the**
10 **length of the assumed curtailment event, many hours would be included**
11 **in the analysis during which the avoided cost of the curtailed energy is**
12 **undeniably positive. Given that the length of the actual curtailment**
13 **event is typically only a few hours, the hours that would be included in**
14 **Mr. Slater's suggested approach during which the avoided cost is**
15 **positive would greatly outnumber the hours during which the avoided**
16 **cost is negative. The dominant effect of artificially including many**
17 **hours when the avoided cost is positive makes the final result virtually**
18 **certain -- it would be impossible to demonstrate negative avoided costs**
19 **for an entire week in order to justify a curtailment event with an actual**
20 **duration of only a few hours; it would also be completely inappropriate.**

1 **IV. RESULTS OF FLORIDA POWER'S**
2 **CORRECTED UNIT COMMIT SIMULATIONS**

3
4 **Q. Why has the Company prepared a revised set of Unit Commit**
5 **simulations?**

6 **A. As I noted earlier, Mr. Slater was correct on a couple of his points. We**
7 **wanted to correct for those oversights. In doing so, we also discovered**
8 **that we should make several other adjustments to the data in order to**
9 **better accomplish the original objective of having a set of comparisons**
10 **that would generally approximate actual operating conditions in the Base**
11 **Case. Consequently, we amended our simulations of the seven**
12 **curtailment events, and I am presenting a summary of these results in**
13 **Exhibit 16 (LDB-1). My Exhibit 16 (LDB-2) summarizes the revisions**
14 **which we made in the new runs.**

15
16 **Q. How have you responded to the changes proposed by Mr. Slater?**

17 **A. As I alluded to earlier, we have made the following adjustments to**
18 **eliminate the inconsistencies in the input data among Base and Change**
19 **Cases: (1) start-up fuel for coal units was added to the two Change**
20 **Cases (January 1 and 30) where this data actually was missing; (2) in**
21 **the January 2 simulation, the starting point for the Crystal River 5 heat**
22 **rate curve was set at the correct level of 150 MW in the Base Case; and**
23 **(3) in the October 19 simulation, the minimum operating level in the**
24 **heat rate curve for the University of Florida unit was changed to the**
25 **correct level of 12 MW in the Base Case.**

1 **Q. What additional refinements have been made to the Company's**
2 **amended simulations?**

3 **A. The following six types of refinements have been included in the revised**
4 **simulations: (1) pre-arranged off-system sales to the Carters Dam**
5 **Project which occurred during two of the minimum load events have**
6 **been included; (2) economy purchases which occurred during the time**
7 **periods covered by the cases were excluded; (3) the initial operating**
8 **status of units has been revised to reflect the actual status of the units**
9 **at the start of each simulation; (4) minor adjustments have been made**
10 **to the level of curtailments in each simulation because of differences in**
11 **the curtailment amounts requested and actually received; (5) the**
12 **minimum operating levels of units were adjusted to reflect the fact that**
13 **the Company was able to reduce some of the baseload units below their**
14 **normal minimum generation levels during some of the curtailment**
15 **events; and (6) several miscellaneous adjustments were made to**
16 **improve the accuracy of the simulations. These refinements are**
17 **summarized in my Exhibit 16 (LDB-2).**

18
19 **Q. Why were the pre-arranged sales to the Carters Dam Project included in**
20 **the simulations?**

21 **A. As I discussed previously, to create a starting point for the Unit Commit**
22 **simulations, we used the after-the-fact runs regularly prepared by the**
23 **Company to compute the as-available energy payments to QFs. Mr.**
24 **Southwick's rebuttal testimony explains that these payments are**
25 **calculated after considering interchange purchases but before**

1 considering interchange sales. Although this is the accepted
2 methodology for purposes of calculating as-available energy payments,
3 we have concluded that it is not appropriate for present purposes with
4 respect to the Carters Dam sales.

5
6 All economy sales were previously excluded from the simulations based
7 on the rationale that the Company could not have anticipated or planned
8 to accommodate those sales. However, the sales to the Carters Dam
9 Project are different insofar as those sales are planned and pre-arranged,
10 and generally can be relied upon as overnight sales for up to a full
11 week. As a result, it is appropriate to reflect those sales in the Unit
12 Commit runs in the same manner as they would have been factored into
13 our before-the-fact planning decisions.

14
15 **Q. Why do the amended simulations exclude economy purchases?**

16 **A.** Hourly economy purchases, like economy sales, are scheduled on short
17 notice and cannot be anticipated or relied upon for planning purposes.
18 As a result, these purchases cannot be treated as an available resource
19 when scheduling to meet projected system loads. It is therefore
20 appropriate to exclude these purchases from the Unit Commit runs to
21 be consistent with information that was known and available at the time
22 that actual before-the-fact planning decisions were made.

23
24 **Q. Why was the initial operating status of units adjusted in the amended**
25 **simulations?**

1 **A.** In the course of responding to Mr. Slater's testimony, we discovered
2 that the initial operating status of the Company's units that were shown
3 in the input data did not consistently reflect the actual prior operating
4 status of the units. As a result, the start-up cost of these units did not
5 correctly reflect the actual length of time that a unit had been cycled off
6 prior to being restarted. To correct for this inaccuracy, the data for the
7 initial operating states of all units was reviewed and adjusted for each
8 of the simulations.

9
10 **Q.** Why were some of the curtailment amounts adjusted in the amended
11 simulations?

12 **A.** In the original runs, the hourly net interchange increment representing
13 the amount of curtailed energy was based on the lesser of the actual
14 amount of energy curtailed or the requested amount of energy curtailed.

15
16 In reviewing the curtailment events, we determined that there were
17 essentially two modes of overall response to curtailment requests. In
18 the first type, QFs either responded consistently as requested, or they
19 responded with curtailments that individually may have been greater or
20 less than the requested curtailments. In these cases, the net effect of
21 all QF responses was substantially in compliance with the curtailment
22 request. In the second type, certain QFs either could not comply with
23 the requested amount of curtailment for technical reasons or chose to
24 over-comply for other reasons. On occasion, the individual instances of
25 over-compliance resulted in total curtailments that were substantially

1 larger than the amounts that the Company requested or needed to
2 match generation and load.

3
4 We have determined that the method of assuming that the curtailed
5 amount was the lesser of the requested amount or the actual amount
6 curtailed was unnecessary for the cases in which the actual total
7 curtailment amount closely approximated the requested amount.
8 Therefore, in this case the actual amount of curtailments has been used
9 in the simulations. By contrast, there were a few instances of the
10 second type which typically resulted from a QF opting to go completely
11 off-line in response to a curtailment request. These instances resulted
12 in substantial total over-compliance and must be viewed as aberrational.
13 They should therefore be excluded from the analysis of the curtailment
14 event because they overstate the total requested curtailment amounts.
15 For these few cases, we have retained the method of assuming that the
16 curtailed amount was the lesser of the requested curtailment or the
17 actual curtailment.

18
19 **Q. Why were the minimum operating levels of units adjusted to more**
20 **accurately reflect the actual levels of operation during the curtailment**
21 **events?**

22 **A. As I noted previously, the Company was able to mitigate curtailments**
23 **on several occasions by operating baseload generating units at levels**
24 **below their normal minimum generation levels. The original computer**
25 **runs ignored these extra efforts and incorrectly assumed that the units**

1 were all operating no lower than their normal minimums. For example,
2 Crystal River 2 has a normal minimum operating level of 140 MW, but
3 may have been operating at 135 MW or 130 MW during a particular
4 curtailment hour. This type of discrepancy has been corrected in our
5 revised Unit Commit simulations.

6
7 **Q. What were the other miscellaneous refinements which the Company**
8 **made to the amended Unit Commit runs?**

9 **A. We made three other miscellaneous refinements to improve the**
10 **accuracy of the simulations. These were: (1) correction of the normal**
11 **minimum generation level for the Crystal River 4 unit; (2) correction of**
12 **the must-run status of two units; and (3) correction of minor**
13 **discrepancies in the must-take amounts from the Southern Companies.**

14
15 The first change was needed to reflect the fact that Crystal River 4 has
16 a normal minimum generation level of 300 MW, but that the unit's
17 minimum level was erroneously shown as 150 MW in several of the
18 runs. The second change was needed to correctly show that Suwannee
19 Unit 3 was in a must-run status on January 30, 1995, even though that
20 unit was manually removed from service during the curtailment event,
21 and to correctly show that Crystal River 4 should not have been in a
22 must-run status in the Change Case for January 2, 1995. The third
23 type of miscellaneous refinement was needed to reflect very small
24 discrepancies in the actual amounts of must-take purchases from the
25 Southern Companies during four of the curtailment events.

1 All of the miscellaneous refinements were appropriate to improve the
2 accuracy of the Unit Commit simulations.

3
4 **Q. What are the results of your amended Unit Commit simulations of the
5 seven curtailment events?**

6 **A. The results of these simulations are summarized in Exhibit 16 (LDB-1).
7 As with the prior simulations included in Mr. Southwick's testimony, the
8 amended Unit Commit runs continue to illustrate that the Company
9 would have incurred negative avoided costs in each of the seven
10 curtailment events if it had not requested and obtained QF curtailments
11 in accordance with the Curtailment Plan.**

12
13 **Q. Is it more likely that the revised Unit Commit simulations understate or
14 overstate the magnitude of the negative avoided cost impacts of not
15 curtailing?**

16 **A. I consider it much more likely that they understate the extent of the
17 negative impact. For example, the Unit Commit runs do not reflect all
18 of the per cycle unit impact costs identified by Mr. Lefton and described
19 by Mr. Southwick. Also, the runs assume that once a unit is cycled off,
20 it will be available for service immediately after its minimum down time.
21 It is not uncommon for restarts to take longer than the minimum down
22 times reflected in Unit Commit, in which case the cycling costs would
23 become larger.**

1 **These examples are not intended to be all-inclusive, yet they suggest**
2 **that our illustration of negative avoided cost errs, if at all, on the side of**
3 **understating, not overstating, the negative avoided cost phenomenon.**

4

5 **Q. Does this conclude your rebuttal testimony?**

6 **A. Yes.**

1 Q (By Mr. McGee) Ms. Brousseau, would you give as a
2 summary of your testimony, please?

3 A Okay. Florida Power has shown in three separate
4 ways for each curtailment to date that Florida Power would
5 have experienced negative avoided costs if the QF energy had
6 not be curtailed. Two of those three methods are described by
7 Mr. Southwick and do not involve computer simulations.
8 Florida Power used the unit commit model as the third method
9 to illustrate the effects on avoided cost that would have been
10 seen had the QF energy not been curtailed. All three methods
11 clearly show that the negative avoided costs would occur if
12 the Company continued to accept the QF energy and cycled off a
13 baseload coal unit in order to match the generation and load
14 for a few hours.

15 Mr. Slater's testimony criticized Florida Power's
16 unit commit simulations and produced his own set of runs to
17 show that the Company would not have experienced negative
18 avoided cost. This is not true.

19 Mr. Slater did point out on error in the data sets
20 that I did agree with and corrected. The error was
21 inconsistent data in the base and change cases of several
22 runs. He made several other changes in his simulations that I
23 don't agree with. He has indicated problems with some items
24 that are simply not problems.

25 It's important to note that these unit commit

1 simulations cannot be an exact snapshot of what happened on
2 the system with and without the QF energy curtailments. They
3 are operating scenarios that show the impact on avoided cost
4 by comparing two cases: A base case that is closely
5 approximating the actual conditions with the curtailment and a
6 change case that will simulate needed actions of units to
7 balance the generation and load. The data in Unit Commit
8 reflects operations under ideal conditions that is not always
9 reflective of actual operations. The model cannot be expected
10 to solve reliability criteria on a pure mathematical basis.

11 Several of Mr. Slater's changes actually took the
12 base cases further away from actual conditions rather than
13 closer to them. I do not agree with these changes as they
14 destroy the whole basis of the analysis.

15 Mr. Slater actually made base cases that cycled off
16 baseload coal units that were, in fact, on line. Therefore,
17 the base case was very similar to the change case. The
18 purpose of these simulations was to evaluate the curtailment
19 of QF energy as an alternative to cycling off baseload units.
20 Therefore, I believe his changes were totally inappropriate.

21 Upon review of actual data in response to
22 Mr. Slater's testimony, we found that we also needed to make
23 some minor adjustments in our data to better reflect the
24 actual conditions.

25 We then reran the simulations with the errors noted

1 by Mr. Slater corrected, along with these additional
2 refinements made, to bring the base cases closer to the actual
3 conditions. Once again, all seven events showed that the
4 Company would experience negative avoided costs if we had not
5 curtailed the QF energy needed to balance the generation and
6 load.

7 In response to Mr. Slater's exhibit presented
8 yesterday, KJS-10 and upon review of his change cases, I again
9 see that there are problems with his analysis.

10 He stated yesterday that the limitation --

11 MR. MCGLOTHLIN: Just a moment. Are you talking
12 about comments on his most recent exhibit?

13 WITNESS BROUSSEAU: Yes, I am.

14 MR. MCGLOTHLIN: Then I'll object. I think that's
15 beyond the ruling that was made yesterday.

16 MR. MCGEE: Madam Chairman, if I might address that.

17 I think the ruling that was made yesterday was that
18 Ms. Brousseau would not be allowed to go beyond the
19 information in the runs submitted by Mr. Slater. I don't
20 think it would be fair in the interest of due process to not
21 comment on this.

22 CHAIRMAN CLARK: Mr. McGee, I had indicated
23 yesterday that Ms. Brousseau would be allowed to go forward
24 with her prefiled rebuttal testimony and that you would be
25 allowed to cross examine Mr. Slater on it, but that she would

1 not be allowed to respond to Mr. Slater at this point.

2 And for that reason, do not go beyond what is in
3 your rebuttal testimony.

4 WITNESS BROUSSEAU: Okay.

5 Finally, the system operating personnel must be able
6 to take actions before a minimum load condition occurs. Most
7 day-to-day system operating decisions are made with the best
8 information available at the time, along with procedures in
9 place to provide guidelines. It is no different for these
10 curtailment decisions.

11 The curtailment plan provides appropriate guidelines
12 to use in making decisions on how to balance generation and
13 load. The curtailment plan has been further substantiated by
14 the avoided cost calculations for seven curtailment events
15 that have occurred. In each case no matter which method was
16 used to calculate those costs, the results showed that
17 negative avoided costs would have occurred had the company
18 cycled off a baseload unit instead of curtailing QF energy.

19 That's all.

20 MR. MCGEE: We tender the witness for cross
21 examination.

22 CHAIRMAN CLARK: Mr. McGlothlin.
23
24
25

1 CROSS EXAMINATION

2 BY MR. MCGLOTHLIN:

3 Q Ms. Brousseau, would you agree that the Company
4 cannot know with certainty prior to our handling of a minimum
5 load event that cycling off a baseload unit would result in
6 negative avoided costs?

7 A I agree that it is not certain, but we have a high
8 degree of confidence in that.

9 Q Is it true that prior to each of the seven
10 curtailments to date Florida Power Corporation did not perform
11 any evaluation on the with-or-without scenarios before
12 electing to curtail?

13 A It is true we did not perform an avoided cost
14 calculation prior to the event.

15 MR. MCGLOTHLIN: No further questions.

16 CHAIRMAN CLARK: Mr. Watson? Ms. Rule? Mr. Wright?

17 MR. WRIGHT: Thank you, Madam Chairman. I just have
18 a few questions.

19 CROSS EXAMINATION

20 BY MR. WRIGHT:

21 Q Good morning, Ms. Brousseau.

22 A Good morning.

23 Q I have a follow-up question to a question that
24 Mr. McGlothlin just posed to you.

25 My question -- he asked you whether you performed a

1 before-the-fact analysis of expected and weighted cost effects
2 of curtailing QFs or cycling off one of Florida Power's units,
3 and you said that you had not done that. My question for you
4 is how accurately can you predict your energy costs with and
5 without curtailment of QFs?

6 A You're asking how accurately we can predict our
7 energy costs with and without curtailments?

8 Q Correct.

9 A Prior to an event?

10 Q Correct.

11 A I think we can do as good of a job as our
12 projections may allow us. We would never know the true extent
13 of when our units may be able to come back if we were able to
14 do an analysis without a curtailment and cycle off a baseload
15 unit. I think you could use a unit commit model and put in
16 assumptions and get an expected result.

17 Q Thank you. You've described what you can do. My
18 question is how accurately; can you get within 10%, can you
19 get within 5% do you know?

20 A I don't know that. I've never tried.

21 Q Okay. I want to ask you just to look, if you would,
22 briefly at your exhibit LBD-1. My question, in very simple
23 terms, is will you agree that the cost differences between
24 your base case and your change case are generally small?

25 A I don't know what "generally small" is. They're

1 over \$1,000 or more, and it is still a negative cost that we
2 would have incurred.

3 Q What's the general magnitude of the difference
4 between the change in base case as a percentage of the base
5 case. I'll tell you, I've done the math. It's on the order
6 of an average of about 1%? Do you agree with that?

7 A I'll take your word for it, since I have not
8 performed the calculation.

9 Q Okay. Do you agree that in four of the cases it was
10 six-tenths of a percent or less? Will you take my word for
11 that?

12 A Again, if you've done the math, sure.

13 Q Thank you.

14 In your summary, I thought you made a statement
15 regarding Mr. Slater's testimony, that in his change cases he
16 cycled off baseload units, and that in that respect his change
17 cases were similar to your change cases. Did I hear right?

18 A I believe what I said is that in the base cases he
19 took off units that were, in fact on; thereby, making them
20 look like the change cases. Therefore, there was very little
21 difference between the two and no negative cost shown in his
22 analysis.

23 Q Does Crystal River Unit No. 1 operate on automatic
24 generator control at an output level of 120 megawatts?

25 A No, it does not.

1 Q At about what level does Crystal River 1 operate on
2 automatic generator control?

3 A Around 250, and even then it is very poor.

4 Q How about the Crystal River 2?

5 A About the same.

6 Q Excuse me one moment. Where does Anclote 2 operate?
7 What is the minimum level at which Anclote Unit No. 2 operates
8 on AGC?

9 A Anclote's normal minimum is 80 megawatts. It's
10 normal AGC minimum is around 200. They have been working to
11 try and reduce that load control range, but it has not been
12 finalized yet.

13 Q Same question for Bartow Unit 2?

14 A Bartow Unit 2, it's normal minimum would be around
15 50 megawatts, and I believe its lower load control range is
16 also around 50. Again, Bartow, we have made emergency
17 minimums where when the unit does have to stay on line, we'll
18 come down to around 20.

19 Q Okay. At 20 megawatts is it on AGC?

20 A No, sir.

21 Q The last thing I want to do, Ms. Brousseau, is I
22 want to pass out an interrogatory response to which -- excuse
23 me a minute. I've got to check who provided this
24 interrogatory response.

25 MR. WRIGHT: Could I have just one minute, Madam

1 Chairman?

2 CHAIRMAN CLARK: Uh-huh.

3 MR. WRIGHT: Thank you. (Pause)

4 That's all I have, Madam Chairman. Thank you.

5 CHAIRMAN CLARK: Thank you, Mr. Wright.

6 Staff?

7 MS. BROWN: No questions.

8 CHAIRMAN CLARK: Commissioners?

9 COMMISSIONER DEASON: I have a question.

10 Ms. Brousseau, you were here yesterday and today for
11 Mr. Slater's testimony, correct?

12 WITNESS BROUSSEAU: Yes, sir.

13 COMMISSIONER DEASON: And I assumed some questions
14 about an operator that is actually on duty being able to
15 utilize computer simulations and being able to make changes
16 based upon knowledge of the system and expertise and judgment
17 and that sort of thing. And it was his testimony that he felt
18 like those type things could be done on a fairly routine
19 basis, should be done, and that it would not be such that time
20 constraints would prevent a quality analysis being done before
21 curtailments are ordered. What is your position on that?

22 WITNESS BROUSSEAU: I don't think that I agree with
23 that characterization. The events leading up to a curtailment
24 event, oftentimes we've a good projection that it may occur in
25 the morning or by the noon hour when we issue our Level 1

1 alert. However, with the way the load forecast is coming on,
2 what units are doing what, the QF generating units on, we
3 always are not totally sure of what the conditions are going
4 to be.

5 We have a lot of experience in what is going to
6 occur with our Crystal River baseload coal units, and I think
7 that we generally know that if we were to cycle them off we
8 would incur this cost, and there's a very good chance that
9 they may not occur to come back on line in time.

10 Part of this is not just planning for the
11 curtailment event itself, but we're looking ahead at the
12 following day and how to meet that peak. So you're not just
13 going to do an analysis for those minimum load hours. And, in
14 fact, we've done that in our planning process. We're always
15 looking out four, five days ahead.

16 So I believe that to try to perform this rigorous
17 avoided cost calculation prior to would be very time-consuming
18 and require someone to sit there and do a lot of "what ifs" to
19 determine your best shot at what might happen.

20 The system operators on duty at the time the event
21 is approaching do not have the benefit of the time or the
22 expertise to do that. It would require bringing engineers in
23 there or engineering assistants to perform that analysis. So
24 it really is not a practical matter to be able to try and do a
25 lot of "what if" simulations prior to an event.

1 COMMISSIONER DEASON: Is it more a matter of it's
2 not practical to do so being that there would have to be
3 engineers on duty and that sort of thing from a cost
4 standpoint, or is it a matter that it's not possible to do so.

5 WITNESS BROUSSEAU: I think that it's probably a
6 little of both. It's not practical, as I mentioned, but also
7 as far as being possible, you would have to develop a variety
8 of these "what if" cases.

9 Mr. Slater chose to cycle off Crystal River 4 units
10 in some of his as a matter to just come up with the economic
11 solution. We had put constraints in things to try and model
12 reliability type of criteria. So even in developing your
13 "what if" scenarios, there's going to be constraints that you
14 have, is knowing what unit you would need to have on line for
15 the following day. So even if you try to do some "what if"
16 situations, is it possible to develop a variety of scenarios
17 that may occur, but the guarantee that any one of those would
18 happen, it's hard to tell exactly in your analysis which one
19 you would choose to go by. That's where the planning process
20 we do as an ongoing basis really helps us to get to the right
21 decision.

22 COMMISSIONER DEASON: Well, is there any room for
23 that type of analysis or judgment, even though it may not be
24 as rigorous as Mr. Slater's analysis, as opposed to simply
25 making an assumption that cycling off a baseload unit is

1 always going to result in negative avoided cost?

2 WITNESS BROUSSEAU: You're asking if there's any
3 room for that? I guess I'm not sure --

4 COMMISSIONER DEASON: Well, as I understand it, you
5 have -- and you think it is a conservative assumption to make,
6 and that may be correct, I'm not sure, but I believe it's your
7 assumption that negative avoided costs are going to result if
8 a baseload unit is cycled off as opposed to curtailing a QF in
9 a minimum load situation; is that correct?

10 WITNESS BROUSSEAU: I think that's the basis for our
11 plan.

12 COMMISSIONER DEASON: Okay. And my question is is
13 that what should be done on a going-forward basis, or is there
14 any room for some type of analysis or judgment, or some type
15 of a computer run to look at avoided cost before a decision is
16 actually made to curtail a QF?

17 WITNESS BROUSSEAU: I think that an analysis could
18 be performed. Again, I think it would be perhaps fraught with
19 some inaccuracies, because you don't always know what the
20 outcome is going to be.

21 There have been many situations where we thought an
22 event was going to occur, and we've squeaked by because we
23 were able to make a sale. And oftentimes you may make the
24 decision to do something based on your projection ahead, and
25 then at the last moment, when a sale can come through or

1 something happens we can take our unit a little bit lower, we
2 may have done something because of that analysis we didn't
3 real, in fact, need to do; and, therefore, our ratepayers may
4 not have benefited from us being able to wait and make that
5 decision at the last moment.

6 I think -- you know, to answer your question,
7 certainly we could do an analysis but, I'm not sure that it
8 would be the most appropriate thing to help us make the best
9 decisions.

10 CHAIRMAN CLARK: Any other questions?

11 Redirect?

12 MR. MCGEE: Just a couple Madam Chairman.

13 REDIRECT EXAMINATION

14 BY MR. MCGEE:

15 Q In follow-up to Commissioner Deason's question, do
16 you know approximately how many times you've issued a Level 1
17 minimum load alert since the plan has been in effect?

18 A I think it's somewhere on the order of around 30 to
19 40 times that we've actually issued a Level 1 alert.

20 Q Yet you've only actually went to the Level 4 for the
21 seven curtailments that we've actually had?

22 A That's correct.

23 Q You indicated in response to an earlier question
24 that you didn't perform an analysis of negative avoided cost
25 prior to curtailment. Did you anticipate that negative

1 avoided cost would be incurred absent curtailing the QFs?

2 A Could you repeat that, please?

3 Q Even though you didn't perform an analysis, did you
4 have an anticipation that negative avoided cost, absent
5 curtailment, would occur on the basis of system costs that you
6 were aware of?

7 A Yes, I believe so.

8 Q And you also indicated in response to another
9 question that your curtailments were pursuant to the plan.
10 Was that plan developed to deal with the negative avoided cost
11 problem?

12 A I think the plan was developed with that in mind
13 that whenever a baseload coal unit would be cycled off we
14 would incur expenses that we normally wouldn't have otherwise.
15 And I do believe that the plan was built around that basis.
16 And also the fact that it was -- that baseload coal units are
17 the backbone of the system, so I think both.

18 Q In addition to the negative avoided cost unit commit
19 simulations that you perform after the fact, do you have any
20 other basis to support your assumption that negative avoided
21 cost will, in fact, be incurred by cycling off coal units to
22 avoid curtailment?

23 A I think that the manual calculations that were
24 performed as part of Mr. Southwick's testimony would be
25 another fact or another example of the avoided cost

1 calculations that were done.

2 MR. MCGEE: Thank you. Those are all of the
3 questions I have.

4 CHAIRMAN CLARK: Thank you, Mr. McGee.

5 MR. MCGEE: We'd ask that Composite Exhibit 16 --
6 you may have to refresh my memory. Was that 16?

7 CHAIRMAN CLARK: 16.

8 MR. MCGEE: -- be admitted into evidence.

9 CHAIRMAN CLARK: It will be admitted in the record
10 without objection.

11 (Exhibit No. 16 received in evidence.)

12 CHAIRMAN CLARK: Thank you, Ms. Brousseau.

13 WITNESS BROUSSEAU: Thank you.

14 (Witness Brousseau excused.)

15 - - - - -

16 CHAIRMAN CLARK: Mr. Southwick.

17 MR. MCGEE: Madam Chairman, you'd indicated earlier
18 that at the time Mr. Southwick comes up with his rebuttal we
19 would deal with the question of the areas of his testimony
20 that need to be withdrawn pursuant to the stipulation that
21 Mr. Presnell referred to earlier.

22 CHAIRMAN CLARK: Yes.

23 MR. MCGEE: As he mentioned, those are on Exhibit A
24 to the letter by Mr. Fama to Mr. Presnell. I believe a copy
25 of that was provided to the court reporter, and I'm wondering

1 if that's sufficient?

2 CHAIRMAN CLARK: I'm not sure where you are.

3 Exhibit what?

4 MR. MCGEE: The letter dated May 8th to
5 Mr. Presnell.

6 CHAIRMAN CLARK: Which is Exhibit 15:

7 MR. MCGEE: Yes.

8 CHAIRMAN CLARK: Okay.

9 MR. MCGEE: Will that be sufficient since that was
10 provided to the court reporter to resolve the areas that need
11 to be withdrawn?

12 CHAIRMAN CLARK: Yes.

13

- - - - -

14

HENRY I. SOUTHWICK, III.

15 was called as a rebuttal witness on behalf of Florida Power
16 Corporation and, having been duly sworn, testified as follows:

17

DIRECT EXAMINATION

18 BY MR. MCGEE:

19 Q Mr. Southwick, do you have before you a document
20 entitled, "Rebuttal Testimony of Henry I. Southwick, III"?

21 A Yes.

22 Q Is that your rebuttal testimony for this proceeding
23 today?

24 A Yes, it is.

25 Q Do you have any additions or corrections that you

1 need to make to your prepared rebuttal testimony?

2 A No.

3 Q If I were to ask you today the questions that are
4 contained in that testimony would your answers be the same?

5 A Yes.

6 MR. MCGEE: Madam Chairman, we'd ask that
7 Mr. Southwick's rebuttal testimony be inserted into the record
8 as though read.

9 CHAIRMAN CLARK: Mr. Southwick's rebuttal testimony
10 will be inserted in the record as though read, with the
11 exception of those listed as withdrawn on Exhibit A of
12 Exhibit 15.

13 MR. MCGEE: Thank you.

14 CHAIRMAN CLARK: Thank you.

15 Q (By Mr. McGee) Mr. Southwick, you also have
16 attached to that prepared testimony Exhibits HIS-6 through
17 HIS-10. Were those exhibits prepared by you or under your
18 supervision and control?

19 A Yes.

20 Q Do you have any corrections that need to be made to
21 the exhibits?

22 A No.

23 MR. MCGEE: Madam Chairman, we'd ask Exhibits HIS-5
24 through 10 be marked for identification as Composite Exhibit
25 -- are we at 17 now?

1 CHAIRMAN CLARK: Yes. Did you say 5 through 10?

2 MR. MCGEE: Yes, ma'am.

3 CHAIRMAN CLARK: Okay. They will be marked as
4 Exhibit 17.

5 (Exhibit Nos. 17 marked for identification.)

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**FLORIDA POWER CORPORATION
DOCKET No. 941101-EQ**

**REBUTTAL TESTIMONY OF
HENRY I. SOUTHWICK, III**

I. INTRODUCTION AND PURPOSE

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Q. Please state your name and business address.

**A. My name is Henry I. Southwick, III. My business address is Post Office
Box 14042, St. Petersburg, Florida 33733.**

Q. Have you previously testified in this proceeding?

**A. Yes. I filed direct testimony on behalf of Florida Power Corporation
("Florida Power" or "the Company") on February 20, 1995.**

**Q. Are you sponsoring any new exhibits together with this rebuttal
testimony?**

A. Yes. I am sponsoring Exhibits 17(HIS-5) through 17(HIS-10).

Q. What is the purpose of your rebuttal testimony?

**A. I will respond to portions of the direct testimony of Messrs. Roy
Shanker and Kenneth Slater on behalf of Orlando Cogen Limited, L.P.
and Pasco Cogen, Ltd. (jointly "OCL/Pasco"). That testimony questions
whether Florida Power is correctly implementing the Commission's rules
for curtailing QF purchases under minimum load conditions. Messrs.**

1 Robert Dolan and Steven Lefton also focus on specific segments of that
2 testimony. I will also answer Mr. Roger Yott's contentions made on
3 behalf of OCL that Florida Power is unfairly treating those of its QF
4 suppliers who have not entered into written voluntary output reduction
5 arrangements.

6
7 On April 25, 1995, Florida Power received copies of proposed
8 supplemental testimony prepared by Mr. Slater. The Company will
9 address that testimony in separate rebuttal to be filed before the hearing
10 in this docket.

11
12 **Q. How is Florida Power's rebuttal testimony organized and how does your**
13 **testimony fit within that organization?**

14 **A. Florida Power's objective is to highlight the key errors in OCL/Pasco's**
15 **position. Toward that end, the Company is submitting rebuttal**
16 **testimony on these primary topics:**

- 17 • OCL/Pasco's self-serving and unsupported analytic framework;
- 18
- 19 • OCL/Pasco's mischaracterization of the minimum load problem
- 20 as a mere economic issue of Florida Power's own making and
- 21 not an "operational problem" justifying curtailments;
- 22
- 23 • OCL/Pasco's incorrect assertions that Florida Power can and
- 24 must do more to avoid involuntary QF curtailments than the
- 25 substantial mitigation measures already undertaken both within
- 26 and outside of the Curtailment Plan;
- 27
- 28 • OCL/Pasco's false conclusion that the minimum load problem
- 29 which the Curtailment Plan seeks to remedy will not result in
- 30 "negative avoided cost" absent curtailments; and
- 31
- 32 • OCL's unsupported effort to achieve what would amount to
- 33 preferential inclusion in the Group A curtailment category.

1 Mr. Dolan's rebuttal focuses on the first two of these topics and I will
2 discuss the last three. Mr. Lefton's rebuttal relates to the fourth item,
3 specifically the propriety of including "unit impact" costs in a properly
4 constructed analysis of negative avoided costs.

5
6 Our supplemental rebuttal will deal with Mr. Slater's criticisms of the
7 Company's negative avoided cost analyses, including his last-minute
8 manipulations of Unit Commitment data in his April 25, 1995
9 supplemental testimony.

10
11 I would like to emphasize that I disagree with countless statements and
12 inferences in the OCL/Pasco testimony, but I am confining my
13 discussion to the three major issues covered by my rebuttal. My failure
14 to mention a particular comment by the OCL/Pasco witnesses
15 (particularly those in Mr. Slater's supplemental testimony) should not be
16 taken as acquiescence.

17
18 **Q. Before turning to your specific subject areas, would you please describe**
19 **your general impressions of the intervenor testimony?**

20 **A. Certainly. The fact that only two of the 22 QF suppliers affected by the**
21 **Curtailment Plan have chosen to file testimony disputing the Plan should**
22 **itself speak volumes. A number of QFs have supported the Plan's**
23 **curtailment priorities as being reasonable, and generally, all QFs have**
24 **been responsive to the Plan when it has been necessary to call for**

1 curtailments. I am convinced that the Plan is grounded on solid
2 principles and is structured in a fair, reasonable, and equitable manner.

3
4 Much of the OCL/Pasco testimony amounts to little more than
5 camouflage designed to create the impression that QF purchases are
6 absolutely unassailable, and to deflect the Commission's attention from
7 the undeniable fact that Florida Power has made tremendous efforts to
8 effectively address the minimum load problem, mitigate the need for
9 curtailments, and achieve a fair apportionment of burdens in the
10 relatively few cases where involuntary curtailments actually become
11 necessary.

12
13 It is probably more significant to note what OCL/Pasco do *not* dispute
14 than what they do dispute. For example, there is no substantiated claim
15 in the OCL/Pasco testimony that the Company's exercise of curtailment
16 rights has been anything other than very narrowly applied. In 1994,
17 Florida Power purchased 4,630,882 MWh of QF energy. That figure is
18 expected to rise considerably in 1995 because of new QF projects
19 coming on-line. In sharp contrast, we have asked for involuntary
20 curtailments from QFs in only 31 hours, amounting to only 4,327 MWh
21 or less than one-tenth of one percent. ~~Likewise, OCL/Pasco do not cite~~
22 ~~or document any specific injury from the Curtailment Plan. If damages~~
23 ~~of any significance had been incurred, the Commission certainly could~~
24 ~~have expected to hear about it.~~ Also absent from OCL/Pasco's case is
25 any claim that the Plan fails to provide adequate notice of curtailments

1 as required by Rule 25-17.086. This is gratifying because one of the
2 Company's major goals was to deal effectively with the notice issue.

3
4 Additionally, in three pieces of prefiled testimony, no OCL/Pasco
5 witness even mentions Section 6.3 of their contracts with Florida
6 Power. Thus, no witness denies that this section specifically
7 contemplated the possibility of curtailments in minimum load conditions.
8 Furthermore, OCL/Pasco have not offered an effective challenge to the
9 principle that the Company would incur *some* measure of negative
10 avoided costs if forced to cycle off a Crystal River coal unit instead of
11 a justifiable curtailment. Their challenges at most go to the question of
12 quantifying a negative avoided cost, a task which Florida Power agrees
13 is difficult to accomplish with precision.

14
15 When reduced to its essential points, the OCL/Pasco testimony leaves
16 the Commission with a fairly narrow set of issues on which to focus.

17
18 **Q. Please provide a brief summary of your rebuttal.**

19 **A. I begin my analysis from Mr. Dolan's conclusion that Mr. Shanker has**
20 **created an artificially restrictive framework for evaluating the curtailment**
21 **issue. As Mr. Dolan explains, Mr. Shanker is reading into the PURPA**
22 **rules a whole host of substantive tests which in reality simply don't**
23 **appear in the language of any rule upon which he relies. By doing this,**
24 **he tries to assume away the minimum load problem, characterizing it as**
25 **one that should have been planned for and now can be avoided entirely**

1 by taking actions that would impose additional costs and reliability risks
2 on the Company's ratepayers in order to continue payments to the QFs.
3 For the reasons given by Mr. Dolan, the Commission should not adopt
4 Mr. Shanker's self-serving and unsupported analytic framework.
5 However, the evidence establishes that Florida Power's Curtailment Plan
6 would pass muster even under that framework.

7
8 Mr. Dolan also explains why OCL/Pasco are in error when they
9 characterize the minimum load problem as a condition of Florida Power's
10 own making. He establishes that Florida Power has prudently planned
11 its system generation supplies and that those planning decisions have
12 been subjected to ongoing scrutiny by this Commission. Nevertheless,
13 given current minimum load levels, the Company is experiencing a
14 periodic problem matching generation and load during minimum load
15 conditions. This is both a reliability concern and an economic concern
16 as I showed in my direct testimony and as I will elaborate upon in this
17 rebuttal. It is wrong to write the problem off as one that Florida Power
18 should have contracted around by negotiating dispatch rights from QFs.
19 In fact, as Mr. Dolan demonstrates, all of the contracts include the
20 curtailment rights which Florida Power needs to implement the
21 Curtailment Plan; OCL/Pasco's contracts, in particular, refer to those
22 rights unambiguously in Section 6.3. I will show that OCL/Pasco's
23 current arguments simply attempt to avoid justifiable curtailments and
24 to shift the burden of matching generation and load directly onto Florida
25 Power ratepayers.

1 I will also address the issue of mitigation. The record should leave no
2 doubt that Florida Power has done everything within reason to mitigate
3 curtailments in ways that will not threaten reliability or unreasonably
4 increase ratepayer costs. The additional measures proposed by
5 OCL/Pasco represent unreasonable ways to assume away an excess
6 generation condition. Moreover, as I will explain, if OCL/Pasco's
7 arguments for disposing of excess generation are to be given any credit,
8 then they must also lead to the conclusion that some of the as-available
9 payments being made to the QFs are far greater than warranted on a full
10 avoided cost basis. OCL/Pasco cannot seriously argue that Florida
11 Power has excess energy to sell off-system at a cost of zero, but that
12 an equivalent amount of energy simultaneously being purchased from
13 QFs is avoiding the need for generation at a cost greater than zero.

14
15 I will also show that OCL/Pasco's attempts to refute the Company's
16 negative avoided cost conclusions are unfounded. The simple fact is
17 that cycling off a Crystal River coal unit to continue purchasing an
18 equivalent amount of energy from QFs would put the Company in
19 exactly the negative avoided cost situation which the FERC and this
20 Commission have cited as justification for curtailment. Contrary to
21 OCL/Pasco's contentions, Florida Power has examined avoided costs
22 over an appropriate time frame and has amply established that it would
23 incur negative avoided costs in the circumstances where the Curtailment
24 Plan would call for curtailments.

1 Finally, I will show why Mr. Yott's equity arguments are wrong. ~~It is~~
2 ~~certainly significant that no other QFs in the Group B or C curtailment~~
3 ~~categories have raised an equity claim and I do not believe that such a~~
4 ~~claim is sustainable based on the facts before the Commission. It is~~
5 ~~also important to remember that OCL has repeatedly been offered the~~
6 ~~opportunity, but has declined, to join Group A on terms similar to those~~
7 ~~applicable to all other QFs in Group A. Florida Power has given sound~~
8 ~~reasons for its curtailment groupings. OCL alone (note that Pasco did~~
9 ~~not join in sponsoring Mr. Yott's testimony) would like to be treated as~~
10 ~~if it had contributed assured output reductions to help solve the~~
11 ~~minimum load problem, when in fact it has not. Florida Power believes~~
12 ~~that including OCL in Group A would treat OCL preferentially.~~

13
14 Q. You have said that you see the real issues in this case as being fairly
15 narrow. Please explain where the basic differences lie between the
16 OCL/Pasco position and the Company's position.

17 A. OCL/Pasco dispute certain of Florida Power's quantification methods,
18 but have not effectively challenged the Company's conclusion that
19 when forced to begin cycling off baseload units, the Company will incur
20 *some* measure of increased operating costs (i.e., negative avoided costs)
21 as contemplated by the FERC/FPSC rules. Mr. Shanker in fact conceded
22 as much at page 23 of his testimony where he said that Section
23 292.304(f) was intended to respond to situations where, "a utility
24 would, absent curtailments, have to turn off its own base load
25 generation due to QF purchases, resulting in net increased operating

1 Finally, I will show why Mr. Yott's equity arguments are wrong. ~~It is~~
2 ~~certainly significant that no other QFs in the Group B or C curtailment~~
3 ~~categories have raised an equity claim and I do not believe that such a~~
4 ~~claim is sustainable based on the facts before the Commission. It is~~
5 ~~also important to remember that OCL has repeatedly been offered the~~
6 ~~opportunity, but has declined, to join Group A on terms similar to those~~
7 ~~applicable to all other QFs in Group A. Florida Power has given sound~~
8 ~~reasons for its curtailment groupings. OCL alone (note that Pasco did~~
9 ~~not join in sponsoring Mr. Yott's testimony) would like to be treated as~~
10 ~~if it had contributed assured output reductions to help solve the~~
11 ~~minimum load problem, when in fact it has not. Florida Power believes~~
12 ~~that including OCL in Group A would treat OCL preferentially.~~

- 13
- 14 Q. You have said that you see the real issues in this case as being fairly
15 narrow. Please explain where the basic differences lie between the
16 OCL/Pasco position and the Company's position.
- 17 A. OCL/Pasco dispute certain of Florida Power's quantification methods,
18 but have not effectively challenged the Company's conclusion that
19 when forced to begin cycling off baseload units, the Company will incur
20 some measure of increased operating costs (i.e., negative avoided costs)
21 as contemplated by the FERC/FPSC rules. Mr. Shanker in fact conceded
22 as much at page 23 of his testimony where he said that Section
23 292.304(f) was intended to respond to situations where, "a utility
24 would, absent curtailments, have to turn off its own base load
25 generation due to QF purchases, resulting in net increased operating

1 costs (i.e., "negative avoided costs")." The big bone of contention is
2 when this unit cycling/negative avoided cost scenario arises.

3
4 Florida Power concludes that the negative avoided cost scenario arises
5 when the Company has:

- 6 (1) taken all reasonable steps, consistent with outstanding
7 contracts/rate schedules, to minimize power purchases from
8 other utility sources;
- 9 (2) reduced self-generation to minimum operating levels consistent
10 with prudent utility practice and sound economic dispatch; and
- 11 (3) maximized interchange sales to an extent which is compatible
12 with regulatory criteria and ratepayer interests.

13
14 In contrast, OCL/Pasco assert that the negative avoided cost scenario
15 could only arise after the Company has:

- 16 (1) breached its purchase contracts with other utilities;
- 17 (2) operated Company units so as to jeopardize reliable, cost-
18 effective service to customers during normal operating
19 conditions solely to guarantee that QFs will not contribute to
20 an over-generation condition during the relatively few hours of
21 minimum load; and
- 22 (3) given away large amounts of energy below the cost which the
23 Company's customers are paying to generate or purchase
24 energy -- simply to continue buying an equivalent amount of

1 QF energy at an as-available price which, by OCL/Pasco's own
2 reasoning, could only be said to be excessive.

3
4 Florida Power's approach preserves PURPA's objective (discussed by
5 Mr. Dolan) of cost neutrality for native load customers. OCL's
6 approach, in contrast, treats the QF purchases as sacrosanct and
7 represents a direct attack on the ratepayer neutrality principle.

8
9 **II. REBUTTAL TO OCL/PASCO'S TESTIMONY**

10
11
12 **A. Florida Power Should Not Be Required To Engage in**
13 **Mitigation Measures Beyond Those Already Taken**
14 **And Contemplated By the Curtailment Plan**

15
16 **Q. Mr. Shanker claims that all the Company has done to mitigate**
17 **curtailments (and all that the Curtailment Plan requires) is to (1) pursue**
18 **additional Florida Energy Broker sales and (2) reduce (but not eliminate)**
19 **the Company's purchases from the Southern Companies. (Shanker,**
20 **pages 33-34). Do you agree with Mr. Shanker's assessment of the**
21 **facts?**

22 **A. No. I have shown that the current minimum load problem is being**
23 **substantially minimized by use of all reasonable and appropriate**
24 **measures. Taking further steps to avoid QF curtailments would result**
25 **in both a threat to system reliability and a direct adverse effect on**
26 **Company ratepayers.**

1 Mr. Shanker overlooks a large number of measures which the Company
2 has pursued. For example, he fails to mention the Company's recent
3 power sales to Oglethorpe Power Cooperative and the Southeastern
4 Power Administration; additional efforts to market power both on and
5 off the Energy Broker before and during minimum load periods (including
6 direct contacts with all other area utilities likely to have a possible
7 purchase need); significant reductions in the Company's own generating
8 resources (including shutting down the University of Florida unit,
9 shutting down the peaking and intermediate units, and bringing the
10 Crystal River coal units to unprecedented low operating minimums);
11 negotiation of additional voluntary QF output arrangements; and
12 negotiation of a new minimum load energy sell-back arrangement with
13 the Southern Companies.

14
15 I have discussed some of these efforts in my direct testimony and I will
16 elaborate on some in this rebuttal. Mr. Shanker is ignoring the fact that
17 Florida Power has gone to extraordinary lengths to control the minimum
18 load problem and to reduce the need for curtailments.

19
20 Q. OCL/Pasco's testimony argues that additional mitigation measures
21 should be followed before initiating involuntary QF curtailments. What
22 is your general response to those claims?

23 A. I repeat that Florida Power has gone the extra mile to ensure that
24 curtailments will be kept to a minimum, consistent with existing
25 contracts, reliability considerations, economic system operation and

1 ratepayer interests. Messrs. Shanker and Slater discuss several ways
2 in which they believe that the Company can and must do more to
3 mitigate the minimum load problem. These are: (1) establishing a policy
4 of interrupting Southern Company purchases before QFs; (2)
5 reconfiguring the commitment of Company generating units; (3)
6 marketing off-system energy at any market clearing price; and (4)
7 cutting retail prices. The first two measures are aimed at further
8 reducing generation, while the second two are designed to elevate
9 demand.

10
11 In effect, OCL/Pasco are saying that the minimum load problem is not
12 real. They claim there is no mismatch between generation and load
13 because generation can always be further reduced to eliminate the
14 problem and load can always be bumped up with the same effect.
15 There is, according to Messrs. Shanker and Slater, no operational
16 problem at all because there are solutions which the Company is simply
17 unwilling to accept because of economic impacts on itself or its
18 ratepayers. Presumably, in the theoretical world created by these
19 witnesses, the minimum load unit cycling conditions described both by
20 the FERC and this Commission as justifying curtailments would *never*
21 arise because a utility like Florida Power could always cause an excess
22 generation condition to evaporate by (1) walking away from its firm
23 utility purchase commitments; (2) redispatching the system to cycle off
24 baseload units on a long-term basis in order to avoid doing so in the
25 short-term; (3) giving away wholesale interchange power and, by the

1 same logic, presumably even paying a third party to accept it; and (4)
2 similarly, giving away service at retail.

3
4 I will discuss each of these measures in turn and it should become
5 readily apparent that they represent unrealistic, unreliable and/or
6 uneconomic ways in which to address the minimum load problem.

7
8 **1. Interrupting Purchases From The Southern Companies**

9
10 **Q. Do you agree with OCL/Pasco's assertion that Florida Power is**
11 **subordinating firm QF purchase contracts to firm utility purchase**
12 **contracts?**

13 **A. Absolutely not. Before initiating any involuntary QF curtailments, the**
14 **Company has committed to curtailing all of its firm power purchases**
15 **from other utilities to the maximum extent allowed by the applicable**
16 **contracts. In the case of Tampa Electric, Florida Power can and will**
17 **reduce its purchases to zero prior to any involuntary QF curtailments.**
18 **In the case of the Southern Companies, the purchases will be reduced**
19 **as much as possible without running afoul of the existing contractual**
20 **arrangements. As a result, the QF purchases actually are given a better**
21 **interruption priority than the utility purchases -- not an inferior priority**
22 **as OCL/Pasco suggest. Mr. Shanker says that "FPC should curtail its**
23 **other firm utility purchases prior to attempting to curtail purchases from**
24 **the Cogens." (Shanker, page 34). Florida Power has committed to**

1 doing exactly what Mr. Shanker suggests subject to its contractual
2 commitments to the Southern Companies.

3
4 **Q. Is Florida Power somehow placing more importance on its compliance
5 with utility contracts than on its compliance with QF contracts?**

6 **A. No. Florida Power is living by the terms of all of its contracts. It is
7 important to recognize, however, that the contracts are not all the
8 same. The Southern Companies contract, entered into in 1988,
9 contained certain absolute minimum purchase obligations depending on
10 circumstances on the Southern Companies' system. As part of a
11 contract and a FERC-jurisdictional rate schedule, those minimum
12 purchase requirements are enforceable against Florida Power. In
13 contrast, as explained by Mr. Dolan, the Company's QF contracts, many
14 of which like OCL/Pasco's were entered into after the contract with the
15 Southern Companies, anticipated and expressly sanctioned purchase
16 interruptions when made in accordance with Rule 25-17.086. This is
17 a material distinction in contract terms which cannot be ignored. Under
18 the Curtailment Plan, Florida Power is simply applying the various
19 contracts as written.**

20
21 **Q. How do you respond to the assertion that Florida Power could do more
22 to reduce its utility power purchases?**

23 **A. There is no truth to that assertion. As I explained in my direct
24 testimony (at pages 17-18), before each of the first seven curtailment
25 events, Florida Power's system operating personnel in fact avoided all**

1 purchases from Tampa Electric and reduced the purchases from the
 2 Southern Companies as much as the contract would allow. During
 3 some of the curtailment events, the Southern purchases were avoided
 4 entirely and during every event those purchases were reduced to well
 5 below the 168 MW contract minimum.

6
 7 Thus, Florida Power already has been substantially reducing the
 8 Southern Companies purchases from the base 400 MW purchase
 9 amount. Moreover, Florida Power has continued its efforts to even
 10 further avoid purchases from the Southern Companies during minimum
 11 load conditions. At the end of February 1995, we reached an
 12 understanding with the Southern Companies that should greatly assist
 13 in mitigating the minimum load problem in the future.

- 14
 15 **Q. Please describe that understanding with the Southern Companies.**
 16 **A. The arrangement with the Southern Companies is summarized in my**
 17 **February 27, 1995 letter to Mr. James Tulloss of Southern Company**
 18 **Services, Inc. (See Exhibit 7 (HIS-5)). Basically, the agreement**
 19 **permits Florida Power to reduce system generation by selling back the**
 20 **required purchases to the Southern Companies during minimum load**
 21 **periods whenever Florida Power's energy cost is at or below the**
 22 **Southern Companies' energy cost. These sales initially will occur under**
 23 **Service Schedule C of the parties' interchange contract.**

1 Q. Do you expect this new arrangement to have a significant impact on QF
2 curtailments?

3 A. Yes. We already have taken advantage of this new arrangement and
4 have thereby avoided one involuntary QF curtailment event.
5

6 Q. Mr. Shanker sees no problem in a hypothetical situation in which Florida
7 Power would be required to pay for power from the Southern
8 Companies, but would not receive that power. (Shanker, pages 36-37).
9 Do you agree?

10 A. I disagree for two reasons. First, if his scenario were to arise, the net
11 effect would be an unwarranted cost burden on Florida Power's
12 ratepayers incurred solely to preserve a cost subsidy to the QFs. The
13 Commission should not require Florida Power to mitigate one adverse
14 cost impact on ratepayers (the unit cycling scenario) by first incurring
15 another type of adverse cost impact for the ratepayers. Florida Power
16 does not believe that the PURPA rules or the QF contracts should be
17 read to require this unreasonable result.
18

19 Second, Mr. Shanker overlooks a very significant point, which is that
20 the Southern Companies purchase requires minimum takes, not just
21 minimum payments. When the Southern Companies also are
22 experiencing light loads, they too have no need for the excess energy
23 and it may not be possible for Florida Power to refuse deliveries.

1 **2. Reconfiguring Commitment Of Florida Power Units**

2

3 **Q. Mr. Shanker asserts that Florida Power has not planned ahead for a**
4 **minimum load problem which it has anticipated for two years or more.**
5 **(Shanker, page 38). Is he right?**

6 **A. No. The Company has been actively pursuing ways to minimize the**
7 **minimum load problem for at least two years. As early as the beginning**
8 **of 1993, we began investigating options to reduce our own unit output**
9 **during minimum load periods. As a result, we expended substantial**
10 **time and resources making modifications to the Crystal River coal units**
11 **as well as other Company generating units to improve their low-load**
12 **operation, by expanding their load control ranges, increasing their ramp**
13 **rates, and reducing their minimum generation capability far below the**
14 **historic levels. We also attempted to renegotiate or work to mitigate**
15 **the minimum purchase requirements in the Company's contract with the**
16 **Southern Companies. As I discussed earlier, we recently were**
17 **successful in that effort. In addition, the Company investigated**
18 **potential ways to increase retail customer loads, but as I discuss later,**
19 **it was concluded that this would not be feasible. In mid-to-late 1993,**
20 **we also began factoring the minimum load issue into the maintenance**
21 **schedule planning for our units and for the QF units. These examples**
22 **illustrate that the Company has responsibly approached the minimum**
23 **load problem in a variety of ways and has worked hard over the past**
24 **couple of years to minimize any impact on QFs in advance of the**
25 **problem.**

1 Q. Has Florida Power also taken more recent actions to minimize the
2 minimum load problem?

3 A. Yes. We are reducing minimum load problems on an ongoing basis
4 through off-system sales (including the recent sales discussed in Mr.
5 Harper's direct testimony to the Rocky Mountain Hydro project and the
6 Carter's Dam project); our new power sell-back arrangement with the
7 Southern Companies; scheduling of maintenance for our own units and
8 for the QF units; and making optimal use of the voluntary QF output
9 reductions including an additional arrangement under which Tiger Bay
10 agreed to come off-line each night near the end of 1994 upon request
11 (thereby avoiding six curtailments in December 1994 that otherwise
12 would have been required). We are devoting more time and personnel
13 resources than ever before to the planning and operations processes in
14 order to minimize QF curtailments. In addition, we have obtained
15 access to longer-term weather forecasting services to better anticipate
16 our loads and resource needs.

17
18 We have made many operating decisions in recent months to help avert
19 QF curtailments, such as keeping Company units off-line even though
20 they were scheduled to return to service after a maintenance outage,
21 advancing the dates for scheduled maintenance, and slowing the rate
22 at which the Crystal River nuclear unit was returned to service after an
23 outage.

1 **Q. Is Mr. Shanker correct when he says that the Company has not**
2 **modified its unit commitment planning process to recognize the**
3 **implications of minimum load conditions?**

4 **A. He is wrong on that point as well. In earlier years, Florida Power**
5 **typically performed its Unit Commitment analyses for periods as short**
6 **as two days. We now do these analyses for a minimum of four days**
7 **and for as long as ten days. The decision to extend this period was**
8 **based, in large part, on the need to anticipate and deal effectively with**
9 **minimum load conditions.**

10
11 **Q. Do you agree with OCL/Pasco that Florida Power could do more to**
12 **mitigate the minimum load problem by changing the manner in which its**
13 **units are committed?**

14 **A. No. As I explained earlier, Florida Power has taken all reasonable steps**
15 **both to minimize power purchased from other utility sources and to**
16 **reduce self generation to minimum operating levels consistent with**
17 **prudent utility management and sound economic dispatch. OCL/Pasco's**
18 **contentions that Florida Power could do more in this regard by changing**
19 **the type or number of units committed during a period of up to a week**
20 **is wrong for two main reasons. First, Florida Power does not know that**
21 **far ahead of time if a minimum load condition actually will occur, much**
22 **less the precise time and magnitude of such an event. Second, even if**
23 **Florida Power had such knowledge, sound economic dispatch**
24 **considerations would prevent the type of long-term unit commitment**

1 actions suggested by OCL/Pasco to fix a short-term minimum load
2 problem.

3
4 **Q. Could you explain why Florida Power cannot precisely predict the**
5 **magnitude or occurrence of a minimum load condition and how this**
6 **impacts the actions proposed by OCL/Pasco?**

7 **A. Yes. While Florida Power can make general predictions of potential**
8 **minimum load problems based on weather forecasts and other system**
9 **factors, and even though we are now looking at these potential**
10 **situations more carefully than ever, the actual occurrence of a minimum**
11 **load problem depends upon a variety of factors causing the loads and**
12 **resources (including QF generation) to change. There were a large**
13 **number of potential minimum load (and curtailment) situations during**
14 **the October 1994 through April 1995 period, yet there were only seven**
15 **curtailment events. If Florida Power had implemented some action,**
16 **such as a curtailment, during all periods that had the potential for a**
17 **minimum load problem, there would have been many needless**
18 **curtailments.**

19
20 Even though we carefully compile and review all available information,
21 we often have no more than a few hour's notice that a minimum load
22 problem might occur. This short-term warning seems to preclude the
23 week-ahead system planning fixes that are suggested by OCL/Pasco.

1 Q. Explain why economic dispatch considerations would preclude Florida
2 Power from taking the actions suggested by OCL/Pasco even if it had
3 perfect foreknowledge of minimum load conditions.

4 A. Mr. Slater says at page 9 of his testimony that Florida Power could shut
5 down a baseload unit over an extended period of time and still have no
6 trouble meeting peak loads with uncommitted cycling capacity, peakers
7 or power purchases. While such capacity may be available
8 operationally, it would only be available *at much higher cost*. Mr. Slater
9 is asking us to ignore sound economic dispatch decisions without any
10 recognition of the adverse ratepayer consequences.

11
12 Florida Power follows a customary industry practice of committing units
13 and dispatching them to minimize the cost to ratepayers. Therefore,
14 even if we knew a week ahead of time that a minimum load condition
15 would occur, the most economical solution would probably not be to
16 cycle off a coal-fired baseload plant for the entire week, since higher-
17 cost units would have to be run during the peak periods to make up the
18 energy from the shut-down coal unit, thus raising the overall cost to
19 ratepayers.

20
21 Again, OCL/Pasco seem to be using the circular argument that if one
22 starts with the premise that QF purchases can never be curtailed, then
23 Florida Power could take actions that might prevent the need for those
24 QFs to be curtailed. We do not accept that premise. OCL/Pasco's
25 suggestion that Florida Power change its unit commitment practices to

1 prevent all potential minimum load curtailments amounts to nothing
2 more than a suggestion that Florida Power's ratepayers should accept
3 higher costs instead of Florida Power exercising the legitimate
4 curtailment rights in the QF contracts.

5
6 **Q. Are there other problems with this suggestion by OCL/Pasco?**

7 **A. Yes. As I said earlier, there are many periods that have the potential to**
8 **become minimum load problems. A Level 1 Minimum Load Alert under**
9 **the Curtailment Plan has been issued 47 times since October 1994, and**
10 **that number understates the total number of times where a minimum**
11 **load problem was possible but was avoided without having to issue an**
12 **alert. If Florida Power were to follow OCL/Pasco's suggestion, this**
13 **would mean changing unit commitment, and raising costs, for each**
14 **period in which a minimum load problem is expected -- many more than**
15 **the number of actual curtailment events. Since many of these predicted**
16 **minimum load problems will not occur, costs would be raised**
17 **considerably for ratepayers.**

18
19 **3. Off-System Sales At Discounted Prices**

20
21 **Q. Do you agree with OCL/Pasco that Florida Power could do more to**
22 **mitigate the minimum load problem by marketing power at wholesale?**

23 **A. No. We are following a practice of marketing as much power as we can**
24 **both before and during curtailment events consistent with established**
25 **interchange practices in the state of Florida. OCL/Pasco's contentions**

1 that the Company should sell more power by dropping its prices is an
 2 excellent example of my earlier statement that OCL/Pasco would prefer
 3 to assume that there never will be any excess generation. This can be
 4 seen clearly in Mr. Slater's comment that "FPC's plan fails to require
 5 that FPC attempt to market excess generation at a price designed to
 6 ensure a sale" (Slater, page 5). If the sale of all excess energy
 7 must be "ensured," then it is hard to imagine a situation when there
 8 ever would be any excess generation.

9

10 Q. Is it a given, as Mr. Shanker assumes (Shanker, page 40), that "FPC can
 11 increase sales by lowering its offering price on or off the Energy
 12 Broker"?

13 A. No, this is not necessarily so during minimum load periods. As I have
 14 testified previously, minimum load conditions are a function of weather
 15 conditions. In Florida, these minimum load conditions generally occur
 16 during nighttime hours when, because of mild weather conditions, there
 17 is neither a major heating nor cooling demand. Generally, the prevailing
 18 weather conditions are comparable throughout the region, meaning that
 19 all area utilities are dealing with relatively low loads at the same time.
 20 It is very likely that, when Florida Power is experiencing its minimum
 21 loads, there will be few or no takers for its excess generation.

22

23 There is also another important point concerning the use of the Florida
 24 Energy Broker as a vehicle for mitigating QF curtailments. By definition,
 25 Broker sales are hourly transactions. There is no assurance that any

1 Broker transaction will continue from one hour to the next, particularly
2 when everyone in the state is experiencing low demands. On the other
3 hand, the Company has to manage its minimum load conditions across
4 a period which typically spans about three to six hours. When entering
5 a minimum load period, the system operating personnel need to have a
6 workable strategy for balancing the generation and load throughout that
7 period. Using the Broker for this purpose is not feasible because an
8 energy sale may be "here one hour and gone the next." The result of
9 this haphazard scheduling would mean that curtailment instructions also
10 would have to be given on an hour-to-hour basis creating a potential yo-
11 yo effect on the QFs and a scheduling nightmare for the system
12 dispatcher.

13
14 **Q. Can you explain why it is important for a utility that is selling power off-**
15 **system to recover at least the full cost of producing (or purchasing) that**
16 **power?**

17 **A. The answer relates to the question of whether the utility's production**
18 **costs (including purchased power costs) are being properly allocated**
19 **among the utility's different customer classes. Generally, power plant**
20 **capacity is constructed or purchased to serve the peak needs of a**
21 **utility's native load customers. As a consequence, rates for the utility's**
22 **native load customers are designed so that these customers bear the**
23 **entire cost of the utility's generation, including capacity costs and**
24 **energy costs such as fuel and variable O&M expenses. However, from**
25 **time to time the utility is able to market temporarily unneeded capacity**

1 or energy. These off-system sales can benefit the native load
2 customers who have supported the utility's system and who are paying
3 for fuel used to produce energy, because the revenues received from
4 off-system sales are returned to the native load customers in the form
5 of a cost-of-service credit. When a sale is priced at or above the seller's
6 highest production (or purchased power) cost at the time of the sale,
7 the revenue credits will provide a native load benefit. On the other
8 hand, a sale priced below the cost of producing (or purchasing) the
9 energy would fail to return a sufficient credit to the native load
10 customers. In that case, the native load customers would be paying to
11 generate (or purchase) the energy sold to another utility while recovering
12 only a portion of that cost -- in other words, the native load customers
13 would be subsidizing the sale.

14
15 **Q. Are OCL/Pasco arguing that Florida Power should be forced to sell**
16 **power on the interchange market at prices below its incremental cost of**
17 **production?**

18 **A. No. Mr. Shanker concedes that he is not proposing that the Company**
19 **should sell economy energy below its incremental cost. (Shanker, page**
20 **41). Mr. Slater's analysis accepts Mr. Shanker's premise. (Slater, page**
21 **9).**

22
23 **Q. If OCL/Pasco accept the concept of an incremental cost pricing floor for**
24 **off-system sales, then why is there a dispute on this subject?**

1 A. Messrs. Shanker and Slater make the same contention from different
2 perspectives. Their point is that Florida Power is not calculating its
3 costs correctly during minimum load periods and that, during such
4 periods, Florida Power should be happy to sell energy at any price at or
5 above zero.

6
7 Q. Do you agree?

8 A. No. Their position is inconsistent with longstanding practice throughout
9 Florida and it would unreasonably shift the costs of continuing QF
10 purchases onto the backs of Florida Power's native load customers.
11 Their position assumes that QF purchases are always "must-take" rather
12 than acknowledging that QF purchases both by law and contract can be
13 curtailed where continuing the purchases would be more costly to
14 ratepayers. Moreover, their approach could not prevail without also
15 concluding that the as-available price determined for a portion of the QF
16 purchases during minimum load conditions is also overstated.

17
18 Q. Please explain in general terms the arrangements which Florida Power
19 has in place to market power off-system.

20 A. The Company sells power off-system under a variety of bilateral
21 agreements which are structured to provide mutual benefits from
22 purchase and sale transactions. Some arrangements are fairly long-
23 term, such as our summer peaking capacity sales to Georgia Power
24 Company and Oglethorpe Power Cooperative.

1 Many of our off-system sales are shorter-term and are made under the
2 interchange contracts which Florida Power has entered into with other
3 utilities. The Company's interchange partners are located throughout
4 the Southeastern United States and include investor-owned utilities,
5 municipalities, and electric generation and transmission cooperatives.
6 The interchange contracts provide flexibility to accommodate ongoing
7 transactions to meet different operating needs. The individual sales
8 occur under one of a series of service schedules, which provide service
9 options like emergency, short-term firm and economy energy service.

10
11 As is common in the industry, these service schedules provide pricing
12 methodologies, rather than a pre-determined price. For example, a sale
13 may be priced at incremental cost plus losses and a capacity reservation
14 charge. Or, the methodology may specify a split-savings rate which can
15 fluctuate but is set half-way between the seller's incremental cost and
16 the buyer's decremental cost. Under these schedules, Florida Power
17 may at times be a seller and at times be a buyer. Therefore, it is
18 important that both interchange partners share a common understanding
19 as to how the pricing methodologies will be followed over time.

20
21 **Q. Please explain how purchase and sale transactions are accomplished on**
22 **the Florida Energy Broker.**

23 **A. A number of generating utilities in Florida participate in the Energy**
24 **Broker system as a means of maximizing hourly economy energy**
25 **transactions. The Broker enables the participants to match sell quotes**

1 and buy quotes for hourly energy transactions. A computer which is
2 housed at Tampa Electric Company matches the lowest sell bids with
3 the highest buy bids in succession. The goal of this process is to
4 maximize statewide savings available through hourly economy energy
5 transactions.

6
7 **Q. Do the Broker transactions occur automatically?**

8 **A. No.** Once the computer matches the buy-sell quotes, the individual
9 utilities must contact each other and schedule a transaction. There are
10 no rate schedules or service agreements that make up the Energy
11 Broker. In order to transact business, the buyer and seller must have a
12 separate interchange contract which sets out the terms for their
13 economy energy transactions.

14
15 **Q. What interchange schedule is used to make Broker sales?**

16 **A. Broker sales are made under Schedule C of the buyer and seller's**
17 **interchange contract. Schedule C is an economy energy rate schedule**
18 **under which the price is based on a half-way split between the seller's**
19 **system incremental cost and the buyer's system decremental cost.**

20
21 **Q. Is there consistency in the way that Energy Broker participants compute**
22 **their incremental and decremental cost quotes?**

23 **A. I believe that there is a general understanding among the participants as**
24 **to how these quotes are derived. This is not an issue over which**
25 **disputes typically arise.**

1 Q. Is this consistency promoted by the Energy Broker system?

2 A. Yes. The Energy Broker guidelines promote consistency by laying out
3 a framework for the calculation of incremental and decremental cost
4 quotes. A copy of those guidelines can be found in my Exhibit 17 (HIS-
5 6). The guidelines devote several pages to a description of the "Costing
6 Methodology of Economy Energy." They explain, for example (at page
7 7) that:

8 Generally, bilateral contracts specify that all identifiable
9 incremental costs for a particular hourly transaction should
10 be included in price quotations. These prices may include:

- 11
- 12 a) System incremental fuel cost (e.g., derived from
13 composite heat rate curves of all units' curve [sic],
14 times the incremental replacement cost of fuel.)
15
- 16 b) Incremental transmission cost.
17
- 18 c) Incremental operation and maintenance cost.

19

20 Q. When does Florida Power make interchange sales on an off-Broker
21 basis?

22 A. There are many occasions and reasons to sell power off-Broker. First
23 of all, as I said earlier, the Broker only handles hourly transactions.
24 Longer-term sales necessarily would be made off-Broker. Also, the
25 Broker only deals with economy energy transactions. Therefore, any
26 sale that has a capacity component (e.g., short-term firm, assured
27 capacity and energy, etc.) would be made off-Broker.

1 **Q. When Florida Power quotes prices for off-Broker sales, does it use the**
2 **same basic pricing methodology as you have described for Broker**
3 **transactions?**

4 **A. Depending upon the nature of the sale and the contract or service**
5 **schedule that best fits the circumstances, the total price quote may**
6 **differ. For example, a short-term firm sale price would include a**
7 **capacity charge in addition to an energy charge reflecting the**
8 **incremental cost of the unit(s) from which the energy will be supplied.**
9 **However, the basic principle applies both on and off the Broker that, in**
10 **establishing an energy price component, the Company will recover at**
11 **least the cost of generating (or purchasing) the MWh of energy that is**
12 **being sold. This is consistent with the Broker guideline which requires**
13 **that incremental cost pricing for Broker sales will be calculated in the**
14 **same way that the participant calculates incremental cost data for its**
15 **other system operating purposes.**

16
17 **Q. Can you give an example of an off-Broker agreement that captures the**
18 **full generating cost concept that you have explained?**

19 **A. Yes. A good example is the Contract for Purchases and Sales of**
20 **Scheduled Power and Energy between Florida Power and Florida Power**
21 **& Light Company. (Exhibit 1 (HIS-7)). That contract states that no**
22 **transaction will be priced below the seller's incremental cost, and it**
23 **defines the seller's incremental cost as follows:**

24 **The Seller's Incremental Energy Cost shall be the Seller's**
25 **incremental fuel cost for load dispatching in effect at the**
26 **time of the transaction as determined by the Seller, which**
27 **calculation shall include any start-up costs incurred in the**

1 event a unit needs to be started to supply Scheduled
2 Power and Energy and the cost of the incremental system
3 transmission losses attributable to the Scheduled Power
4 and Energy transaction. The order of priority used to
5 determine the Seller's Incremental Energy Cost will be
6 such that the Scheduled Power and Energy provided under
7 this CONTRACT will be the increment immediately above
8 (i.e., will be deemed to be provided after): (1) the Seller's
9 retail and wholesale load requirements, including spinning
10 reserves; (2) sales of firm capacity and energy; and (3)
11 sales under other prior commitments into which the Seller
12 may have entered.

13 Incremental cost here is being defined by reference to the fuel used to
14 generate a block of energy above the energy needed for immediate
15 native load purposes.

16
17 **Q. Mr. Shanker argues that Florida Power must use different methods to**
18 **calculate incremental cost during "normal" conditions and during**
19 **minimum load conditions. (Shanker, pages 42-43). Do you know of**
20 **any precedent for this methodological distinction among Florida utilities?**

21 **A. No.**

22
23 **Q. Is it typical for utilities in Florida to quote interchange sales prices at or**
24 **near zero?**

25 **A. No.**

26
27 **Q. Mr. Slater describes his understanding of "dump energy" practices**
28 **among utilities in two power pools. (Slater, page 13). Does such a**
29 **dump energy practice make sense here?**

30 **A. I see no particular relevance to the pricing arrangements that might be**
31 **practiced in the New York Power Pool or the PJM Pool. Moreover, Mr.**

1 Slater expects Florida Power to "dump" energy below the cost incurred
2 to generate (or purchase) it solely so that the QFs can continue
3 receiving higher as-available energy payments. This is nothing more
4 than a subsidy from the ratepayers to the QFs -- one form of negative
5 cost impact to mitigate another form of negative cost impact.
6

7 **Q. Do you agree that Messrs. Shanker and Slater are properly measuring**
8 **the cost of Florida Power's generation (or purchases) during minimum**
9 **load conditions?**

10 **A. No. These witnesses lose sight of one very important consideration.**
11 **In the unit cycling scenario described in the Curtailment Plan, Florida**
12 **Power experiences a clear negative avoided cost which warrants QF**
13 **curtailments and a corresponding avoidance of as-available energy**
14 **payments. As an alternative to the negative cost impact which justifies**
15 **a curtailment, OCL/Pasco would like Florida Power's ratepayers to**
16 **accept another negative cost impact -- that is the impact of selling**
17 **power for less than it cost the ratepayers to generate the power or**
18 **purchase it (including the purchases from the QFs). In fact, Florida**
19 **Power's true cost in a minimum load period must take into account the**
20 **impact of the QF purchases.**

21
22 **Q. Please respond next to Mr. Slater's contention that Florida Power**
23 **cannot establish a negative avoided cost unless it can show a direct**
24 **increase in production costs. (Slater, page 10).**

1 A. This statement is inconsistent with Mr. Slater's agreement that, when
2 calculating a utility's avoided cost, "it is wholly appropriate to capture
3 all recognizable costs associated with the utility meeting the demands
4 of its customers." (Slater, page 17). More importantly, though, Florida
5 Power has shown that when forced to begin cycling the Crystal River
6 Coal units, additional production-related costs will be incurred; the only
7 real question posed by OCL/Pasco is when this will occur.

8
9 Mr. Slater has placed the cart before the horse. He presumes that no
10 cycling scenario will ever arise because Florida Power can first give
11 power away off-system without having a direct impact on additional
12 production costs. In fact, however, his proposal to sell power off-
13 system at less than the full cost of producing (or purchasing) those
14 particular MWh would have a direct adverse cost impact on Florida
15 Power's ratepayers by forcing them to subsidize continued QF
16 purchases. In the FERC's words, which are quoted in Mr. Dolan's
17 testimony, these off-system sales "would not be just and reasonable to
18 the consumers of the electric utility, because it would result in increased
19 costs to the system's ratepayers." Therefore, giving away power at a
20 price of zero should never be required as a mitigation measure, and
21 absent this mitigation measure and the other excessive measures
22 proposed by OCL/Pasco, there is no question that the unit
23 cycling/increased production cost scenario results.

24
25 Q. Do you have any other criticism of Mr. Slater's pricing theory?

1 A. Yes. Acceptance of Mr. Slater's theory would lead to absurd results.
2 He says that "FPC can offer the excess generation at any price above
3 zero without causing the avoided cost calculation to show a negative
4 result." This is because, according to Mr. Slater, "the price at which
5 the excess is offered for sale is unrelated to costs incurred to produce
6 and is therefore irrelevant to the calculation of avoided costs." (Slater,
7 page 12).

8
9 If the price, indeed, could never be relevant because it has no impact on
10 the cost of production, then the same argument would suggest that
11 Florida Power should be prepared to *pay* a would-be purchaser to buy
12 the excess energy. In other words, Mr. Slater has given no reason for
13 a pricing floor of zero.

14
15 Obviously, in this absurd extension of Mr. Slater's argument, the
16 Company would be incurring a direct, measurable cost in the form of a
17 payment to the power purchaser, yet Mr. Slater's rationale would
18 consider this cost wholly immaterial.

19
20 Q. Please elaborate on your point that selling power at prices at or only
21 slightly above zero during minimum load conditions to avoid curtailing
22 QF purchases would result in an unwarranted subsidy from the native
23 load customers.

24 A. Exhibit (HIS-8) shows the as-available energy prices that were being
25 paid to QFs in each hour during which the seven initial curtailments

1 were made. The payments ranged from \$13.47 to \$17.04 and
2 averaged \$15.62. These payments are equivalent to the system
3 incremental energy cost that would have been incurred to generate a
4 block of energy as large as the combined as-available QF energy
5 deliveries in each hour. During the minimum load curtailment events,
6 this cost would have been based entirely or mostly on the cost of coal-
7 fired generation.

8
9 When Florida Power is generating coal-fired energy at about \$15 and
10 purchasing QF energy at about \$15, then it can sell any temporarily
11 excess energy at or above the \$15 threshold and either remain revenue
12 neutral or perhaps realize some revenue benefit for native load
13 customers. On the other hand, if the Company were compelled to sell
14 this energy at, say \$1, simply to continue purchasing QF energy at \$15,
15 then there would be an obvious subsidization of the QFs by the
16 Company's native load customers. In order to avoid curtailing the QFs,
17 Florida Power's ratepayers would realize inadequate revenue credits to
18 offset their incurred generation costs.

19
20 **Q. In the situation you have described, would the Company's customers be**
21 **incurring costs that they would not have incurred in the absence of the**
22 **QF purchases?**

23 **A. Yes, they would. Let me elaborate on my example to illustrate this**
24 **point. Suppose that:**

- 25 • In HOUR 1, the Company has a minimum load of 2,000 MW, and
26 is supplying that load as follows:

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- 1,800 MW of Company generation, plus
- 200 MW of QF purchases;

- In HOUR 2, the Company's minimum load is 1,700 MW, so the Company reduces its own generation to 1,650 MW, which consists (rounded) of 795 MW from Crystal River 3; 260 MW from Crystal River 1 and 2; and 600 MW from Crystal River 4 and 5;
- The Company's production cost for an additional 50 MW in HOUR 2 is \$15 (based on to the price of coal applied to the heat rate curve(s) of the Crystal River coal unit(s) that would be ramped up to generate that increment of energy);
- The as-available energy price being paid to QFs for their 200 MW purchase block is roughly the same \$15 per MWh coal cost;
- Florida Power has unsuccessfully attempted to market power both on and off the Energy Broker in 50 MW blocks at any price at or above the \$15 per MWh production cost.

To further reduce Florida Power's own generation would require it to cycle off a Crystal River coal unit. This would cause the Company to incur some measure of negative avoided costs. Therefore, under the Curtailment Plan, this is the point at which QF curtailments would be initiated. Florida Power would curtail the purchase of 150 MW of QF energy for HOUR 2 (1,650 MW Company generation + 200 MW QF generation - 1,700 MW load = 150 MW excess).

Assume, however, that instead of this justifiable curtailment, the Company continued to purchase the unneeded 150 MW at \$15 per MWh, while simultaneously selling 150 MW of energy at a price of only \$1 per MWh. In this example, the Company's net costs would be unjustifiably increased by the differential between the \$15 per MWh production (and QF purchase) cost (\$2,250) and the \$1 per MWh revenue recovery (\$150). This \$2,100 net cost is a direct result of the

1 sale of an equivalent amount of energy at less than the cost incurred to
2 supply that energy. As I have said, this cost would be borne by the
3 native load customers, contrary to the objectives of PURPA.
4

5 **Q. Mr. Shanker gives an example at page 43 of his testimony using**
6 **different numbers in an attempt to show that Florida Power is**
7 **incorrectly measuring its energy costs during minimum load conditions.**
8 **Is there a logical foundation for his hypothetical system conditions?**

9 **A. No. Mr. Shanker has assumed an infeasible operating scenario. He then**
10 **draws an unsupported conclusion regarding the cost (or perhaps the**
11 **value) of a 100 MW block of Company-generated (or purchased) energy**
12 **which he assumes to be in excess of the Company's needs.**
13

14 **Q. What's wrong with Mr. Shanker's assumed operating scenario?**

15 **A. Mr. Shanker assumes that neither utility generation nor QF purchases**
16 **can be reduced from the levels stated in his example. In reality, either**
17 **of these generation sources can be reduced if it becomes necessary to**
18 **do so. The 100 MW block of energy that Mr. Shanker assumes will be**
19 **produced (or purchased) irrespective of load would not be produced (or**
20 **purchased) under actual operating conditions.**
21

22 **Q. In Mr. Shanker's example of a 2,000 MW load and 2,100 MW of**
23 **generation (1,800 from Company units, 100 from the Southern**
24 **Companies and 200 MW from QFs), how would the Company go about**
25 **adjusting the resources to match the load?**

1 A. If we expected such a condition to materialize, we would take steps to
2 deal with it before it arose. As specified in the Curtailment Plan, we
3 would attempt to avoid the excess generation condition by reducing (or
4 selling back) the purchase from the Southern Companies. If the 100
5 MW assumed purchase from the Southern Companies could be avoided,
6 the generation and load could be brought into balance without need for
7 further reductions in either Company or QF generation.

8
9 Q. What else would the Company do to respond to Mr. Shanker's
10 hypothetical operating condition?

11 A. If necessary, Florida Power would lower its self-generation at least to
12 the normal minimum generation levels shown in the Curtailment Plan.
13 As summarized in my earlier example, this would enable the Company
14 to bring its self-generation to about 1,650 MW or 150 MW *below* the
15 minimum generation level assumed in Mr. Shanker's example. In fact,
16 only a portion of this potential 150 MW reduction would be needed to
17 eliminate the entire 100 MW excess generation condition assumed by
18 Mr. Shanker.

19
20 Q. So is it fair to say that Mr. Shanker's hypothetical condition would not
21 occur under actual system conditions?

22 A. That is correct.

1 Q. If one were to reformulate Mr. Shanker's example so that (1) Company
2 generation already was at the 1,650 MW normal minimum level, *and* (2)
3 Southern Companies purchases already were reduced to a minimum,
4 *and* (3) the Company was making 200 MW of QF purchases at as-
5 available prices, *and* (4) load and generation were in balance, *but* (5) in
6 the next hour the load was expected to decline by another 100 MW
7 such that an excess generation condition was expected, would it then
8 be correct, as Mr. Shanker suggests, that Florida Power would have no
9 discretion to further reduce generation?

10 A. No. Even in that more plausible example, Florida Power would not (and
11 for reliability reasons could not) allow the assumed excess generation
12 condition to materialize. Therefore, it *would* further reduce system
13 generation by 100 MW. The main issue in this case is whether that
14 reduction must come from a Company unit (*i.e.*, a cycling event) or
15 whether it could be accomplished with a permitted curtailment of 100
16 MW of the assumed 200 MW QF supply. Because the cycling scenario
17 under these system operating circumstances would cause the Company
18 to incur negative avoided costs, the Curtailment Plan would authorize
19 a 100 MW QF curtailment in this situation.

20
21 Only by incorrectly presuming that Florida Power can *never* curtail any
22 portion of its QF purchases to avoid excess generation in minimum load
23 conditions, could Mr. Shanker draw the equally incorrect conclusion that
24 "FPC can not save any money by producing less [or purchasing less
25 from the QFs], because it cannot produce less [or purchase less from

1 the QFs)." This circular reasoning ignores the Company's legitimate
2 curtailment rights.

3
4 Q. You previously stated that, if one were to accept the Shanker/Slater
5 pricing contentions, one would also have to conclude that the QFs are
6 being paid too much for as-available energy. Can you please elaborate?

7 A. Certainly. The fundamental notion of avoided cost pricing is that the QF
8 supply enables the purchasing utility to avoid the alternative cost of
9 generating or purchasing an equivalent amount of needed capacity
10 and/or energy. For present purposes, I am focusing only on the as-
11 available energy.

12
13 The basic premise of the Shanker/Slater theory is that, in minimum load
14 conditions, we are dealing with a disposal of "excess energy" which is
15 not needed by Florida Power and which allegedly has a cost to Florida
16 Power of zero. If that were assumed to be true (and I don't agree with
17 the zero cost assumption), then Messrs. Shanker and Slater could not
18 possibly argue in good faith that, as to the number of MWh of excess,
19 any QF is (1) enabling the Company to avoid generating that energy, or
20 (2) enabling the Company to avoid an energy production cost. The
21 same energy amount cannot be a zero cost resource from Florida
22 Power's perspective, but a much higher cost resource when it is
23 supplied by the QFs. In fact, because of the way in which avoided
24 energy cost pricing is determined, the block of QF-supplied energy
25 theoretically should be priced at or near the price of energy which is

1 sold on the interchange market. The only reason for a significant
 2 difference in price would be a difference in the relative block sizes of the
 3 interchange sales and the QF purchases. In other words, if one accepts
 4 the Shanker/Slater analysis, then an equivalent sized block of QF energy
 5 would be priced at or near zero.

6

7 **Q. Please elaborate on the pricing procedures under which the QF energy**
 8 **theoretically should be priced at or near zero in the Shanker/Slater**
 9 **framework?**

10 **A. The Commission's Rule 25-17.0825(2)(a) describes the required method**
 11 **for determining as-available energy prices for QFs. It says that:**

12 **Avoided energy costs associated with as-available energy**
 13 **are defined as the utility's actual avoided cost before the**
 14 **sale of interchange energy.**

15 The Commission has explained that the reason for looking at the as-
 16 available price *before* interchange sales is to ensure that the utility's
 17 ratepayers (and not the QFs) will realize the benefits from interchange
 18 sales. For example, in Order No. 12634, Docket No. 820406-EU
 19 (October 27, 1983) at pages 10-11, the Commission stated:

20 **The rule defines avoided energy costs as a utility's**
 21 **actual hourly incremental costs for those hours during**
 22 **which no economy energy transactions occur, actual**
 23 **incremental costs after the purchase of economy energy,**
 24 **or actual incremental costs before the sale of economy**
 25 **energy. It is necessary to calculate avoided costs before**
 26 **economy energy or broker sales and after broker**
 27 **purchases to preserve the benefits of the Florida energy**
 28 **broker system for the ratepayers of the participating**
 29 **utilities.** Broker purchases enable a utility to lower its
 30 overall fuel costs by purchasing energy at a price less than
 31 what it would have cost the utility to generate the power
 32 itself. This opportunity to lower fuel costs should be
 33 preserved; it is preserved if avoided energy prices for QFs

1 are calculated after such purchases have occurred. Broker
2 sales also benefit a utility's ratepayers because we
3 required the profit from broker sales to be accounted for
4 when a utility's base rates are set. The level of income
5 realized from broker sales would decrease if the costs to
6 produce energy sold on the broker system were increased
7 by calculating avoided energy prices for QFs after such
8 sales have occurred. The level of income from broker
9 sales is less affected by the presence of QFs on the
10 utility's system if avoided energy prices for QFs are
11 calculated before broker sales occur. Because we do not
12 believe other ratepayers should experience an increase in
13 the cost to serve them as a result of the presence of QFs,
14 we reject Dade County's contention that avoided energy
15 costs should be calculated after broker sales have
16 occurred.

17 Pricing QF energy *before* interchange sales means that the QF price is
18 derived without reference to the off-system sales - - in other words,
19 based on the same increment of energy that would have been sold on
20 the interchange market. Except for a potential difference in the size of
21 the off-system sale block and the as-available energy block, the two
22 prices should be approximately the same. It is logically not possible to
23 correctly suppose a condition in which economy energy sales should be
24 priced at approximately zero, while at the same time, an equivalent
25 amount of as-available energy is being properly priced at a level much
26 higher than zero.

- 27
- 28 Q. Do you have any other comments on the OCL/Pasco proposal that
29 Florida Power be required to further mitigate curtailments by modifying
30 the way it (and its interchange partners) determine incremental cost?
- 31 A. Yes, just two points. First, Mr. Dolan's rebuttal testimony reveals that
32 the FERC had a very good opportunity to put an explicit off-system
33 sales mitigation requirement into its curtailment rule. FERC did not do

1 that even though two fellow regulatory agencies had asked it to; indeed,
2 as explained by Mr. Dolan, FERC stated that its rules do *not* require a
3 utility to deliver unneeded energy to any third party. Mr. Dolan also
4 shows that this Commission's rules simply encourage off-system sales
5 of unneeded QF energy and only where the sale price is cost-effective
6 to the ratepayers.

7
8 Second, Florida Power has no objection if OCL/Pasco want to market
9 their own curtailed energy to a third party (at any price they choose,
10 including a price below, at or above their own production costs).
11 Section 6.3 of the contracts with these parties lets them dispose of
12 their curtailed energy in any way they choose. That section also says
13 that Florida Power has no obligation to transmit curtailed energy
14 amounts to third parties. But, notwithstanding that provision, Florida
15 Power is certainly willing to wheel their energy to another buyer under
16 the Company's open access transmission tariffs.

17 18 **4. Retail Sales At Discounted Prices**

19
20 **Q. Mr. Shanker also suggests that Florida Power should cut its retail prices**
21 **in order to encourage off-peak demand increases. (Shanker, pages 45-**
22 **46). Please respond.**

23 **A. This is really nothing more than an extension of the low-cost wholesale**
24 **sale proposal. Mr. Shanker is again attempting to create the false**
25 **impression that the minimum load problem can be handled exclusively**

1 as a demand-side problem rather than a supply-side problem. For all the
2 reasons I have given on the wholesale side, I also strongly disagree with
3 Mr. Shanker's unsupported retail pricing proposal.
4

5 **Q. Does Florida Power already have measures in place to create economic**
6 **incentives for its large industrial customers to increase consumption**
7 **during off-peak periods?**

8 **A. Yes. Florida Power currently has a time-of-use rate which includes two**
9 **pricing tiers to reflect peak and off-peak usage.**
10

11 **Q. Has Florida Power considered whether additional pricing incentives**
12 **might be used to increase retail demand and thereby help to alleviate the**
13 **minimum load problem?**

14 **A. Yes. The Company has considered the possible creation of a three-tier**
15 **retail industrial rate which would separately price energy for the**
16 **midnight shift hours. However, given the nature of the Company's retail**
17 **industrial load, this investigation concluded that there was no significant**
18 **opportunity to increase the retail demand through further price cuts. All**
19 **that would have resulted was a windfall price reduction to the industrial**
20 **customers.**
21

22 **Q. Do you agree that Mr. Shanker's example (Shanker, pages 45-46) of**
23 **industrial cogenerators reducing the output of their internal cogeneration**
24 **systems represents a viable method of alleviating minimum load**
25 **conditions?**

1 A. No. There are no industrial cogenerators on the Florida Power system
2 with generation that is not integral to their manufacturing processes.
3 Therefore, there are none that could have any impact on the problem.
4 Because the cogenerators' thermal processes are linked to the use of
5 their own generating equipment, they could not shut down their
6 generators, as Mr. Shanker suggests, without simultaneously stopping
7 their entire production process.

8
9 Q. Do you believe that Mr. Shanker's cut-rate retail pricing proposal has
10 any merit?

11 A. No. Even if otherwise in the interest of Florida Power and its
12 ratepayers, reductions in the existing time-of-use pricing would not be
13 likely to materially affect the midnight shift load patterns, especially not
14 in the short-term period when we most need to deal with the minimum
15 load problem.

16
17 Florida Power is in the business of selling electricity. It benefits the
18 Company and its customers whenever we can increase demand to make
19 use of available generating resources. But, it is not in anyone's interest,
20 except perhaps OCL/Pasco's, if we pay more to generate or purchase
21 power than we receive when we sell that power. This proposition
22 seems clear to me. Reducing retail rates to continue buying QF output
23 at higher rates means (1) the QF output is not needed, and (2) our other
24 customers are subsidizing the QFs by receiving too little on the sale side
25 and paying too much on the purchase side. The only beneficiaries are

1 the QF and, in Mr. Shanker's proposal, the individual retail customer
2 who happens to get a reduction in his rates.

3
4 **B. OCL/Pasco's Negative Avoided Cost Criticisms**
5 **Do Not Undermine Florida Power's Curtailment**
6 **Plan**

7
8
9 **1. Florida Power's Timeframe For Avoided Cost Analysis**

10
11 **Q. Do you agree with the assertions made by Messrs. Shanker and Slater**
12 **that Florida Power has used the wrong time frame to calculate negative**
13 **avoided costs?**

14 **A. No. The Company explained in a conceptual way and made model runs**
15 **to illustrate that negative avoided costs would have occurred during the**
16 **seven curtailment events if no curtailments had taken place. The Unit**
17 **Commit model runs were made over periods ranging from one to three**
18 **days. The time period examined was more than sufficient to capture**
19 **the full impact of negative avoided costs as a result of not curtailing.**
20 **At a minimum, these impacts consist of increased costs due to baseload**
21 **unit start-up costs and higher generation costs during the period when**
22 **a baseload unit is shut down. These increased costs occur during the**
23 **day of the minimum load event, assuming, as we did, that the baseload**
24 **unit can and does return to operation at the end of the minimum shut-**
25 **down period (typically six to eight hours). Our comparative analyses all**
26 **cover the period during which these increased costs occur, and**
27 **therefore cover the appropriate time frame.**

1 **Q. Would the negative avoided costs shown by Florida Power "vanish" as**
2 **Mr. Slater claims if the Company followed the negative avoided cost**
3 **calculation methodology suggested at pages 23-24 of Mr. Slater's direct**
4 **testimony?**

5 **A. No. While I do not fully understand Mr. Slater's methodology, his scant**
6 **description seems to suggest that Florida Power should presume that**
7 **the maximum curtailment amount was curtailed in every hour (off-peak**
8 **and on-peak) for some period longer than the actual curtailment period**
9 **and up to a week. Mr. Slater evidently would assume a week-long**
10 **curtailment at the level needed to resolve the most severe one-hour**
11 **minimum load problem.**

12
13 **Even if Florida Power had perfect knowledge up to a week before a**
14 **minimum load condition, it would be draconian to curtail QFs at that**
15 **level for the entire week and would deprive ratepayers of any benefits**
16 **from QF purchases during all but the most severe minimum load hours.**
17 **While we have not performed such an analysis, it is obvious that the**
18 **replacement energy in the "curtailment case" during hours outside the**
19 **most severe minimum load hours, including on-peak hours on the**
20 **following day or days, would offset the start-up costs or increased**
21 **energy costs due to cycling a baseload unit in the "no curtailment" case.**

22
23 **Q. Do you agree that Mr. Slater's method is appropriate for use in**
24 **calculating negative avoided costs?**

1 A. No. Florida Power has constructed a reasonable proxy to illustrate what
2 theoretically would have happened on the system and that negative
3 avoided costs could be expected in the absence of *actual* curtailments.
4 Mr. Slater seems to be suggesting that we measure the impact of
5 *hypothetical* curtailments that never occurred. It would be inappropriate
6 and not in the interests of either QFs or ratepayers to implement actual
7 curtailments as Mr. Slater suggests.

8
9 In fact, Mr. Slater's methodology could be extended even further. To
10 carry his approach forward, Florida Power presumably could curtail the
11 maximum amount of QF power needed to avoid any minimum load
12 condition for a period up to several years until there is no longer any
13 potential for a minimum load condition. In this application, every hour
14 of the several-year period would have curtailment at the maximum level
15 expected during the period. Obviously, this would be inappropriate.

16
17 **2. Florida Power's Reference To "Unit Impact" Costs Of Cycling**

18
19 Q. OCL/Pasco do not agree that the type of costs which you and Mr.
20 Lefton describe as "unit impact" costs are properly included in a
21 calculation of negative avoided cost. Please respond.

22 A. Mr. Slater concedes that "[i]n calculating utility avoided costs, it is
23 wholly appropriate to capture all recognizable costs associated with the
24 utility meeting the demands of its customers." (Slater, page 17). We
25 have only recently received the results of Mr. Lefton's analysis and I

1 would say that we need to evaluate these cost impacts further before
2 I would be comfortable using a specific "unit impact" number or set of
3 numbers for system dispatch purposes or for avoided cost pricing.
4 Nevertheless, I am confident that the Company is incurring the type of
5 per-event cycling costs described by Mr. Lefton and that they should be
6 "captured" as "recognizable costs associated with the utility meeting
7 the demands of its customers."
8

9 Mr. Lefton has submitted separate rebuttal testimony answering several
10 specific points raised by Mr. Slater. But, I want to emphasize one
11 critical point. "Unit impact" costs, as measured by Mr. Lefton,
12 represent the *incremental* cost of each additional cycling event. As
13 such, the present value portion calculated on a per cycling event basis
14 would be incurred *whenever* a Crystal River coal unit was forced to
15 cycle off in order to continue a QF purchase. And, as such, these costs
16 certainly do represent part of the negative avoided cost of each cycling
17 scenario.
18

19 Q. Do any of Mr. Slater's criticisms of Mr. Lefton's "unit impact" cost
20 analysis alter your negative avoided cost conclusions?

21 A. No. I think that Mr. Lefton effectively responds to the specific
22 criticisms. In any case, though, even if the Commission were to
23 question the magnitude of Mr. Lefton's measured cycling costs, my
24 conclusions would be unaffected. This is because of two reasons. The
25 first reason is that we have chosen to use Mr. Lefton's analysis in a

1 very conservative way. While his study showed that a per-cycle cost
 2 may be greater than \$100,000 for a unit like Crystal River 2, we used
 3 a much lower figure in our negative avoided cost comparisons.

4

5 **Q. What is your second reason?**

6 **A. The second reason is even more significant. My direct testimony**
 7 **establishes that Florida Power would realize negative avoided cost in**
 8 **minimum load conditions without curtailments, *even without taking into***
 9 ***account the effects of Mr. Lefton's "unit impact" costs. The start-up***
 10 **fuel and maintenance, and repla**

11 **cement power costs which Florida Power already captures in its economic**
 12 **dispatch procedures are of sufficient magnitude to produce a negative**
 13 **avoided cost in and of themselves. Mr. Slater has not offered any credible**
 14 **evidence to dispute this fact.**

15

16 **3. Alleged Unit Commit Errors**

17

18 **Q. Mr. Slater claims in his direct testimony to have uncovered three**
 19 **"significant problems" with Florida Power's negative avoided cost**
 20 **calculations. (Slater, page 27). How do you respond to these**
 21 **contentions?**

22 **A. Florida Power disagrees with the assertion that there were any**
 23 **"significant problems" which would negate the conclusions drawn from**
 24 **either its conceptual or its numeric analyses of negative avoided costs.**
 25 **Because there is a clear interrelationship between the three "problems"**

1 listed in Mr. Slater's direct testimony and the somewhat more detailed
2 assertions presented in his April 25th supplemental testimony, we are
3 evaluating those allegations as part of a thorough review of the Unit
4 Commit simulations. The results of that review will be presented before
5 the hearing in this docket in a further piece of Company rebuttal
6 testimony.

7
8 For present purposes, I would, however, like to stress that it is
9 important to keep in mind what the Unit Commit simulations are -- and
10 what they are not. Before a minimum load curtailment event, we must
11 anticipate the levels of available resources and customer demands. The
12 Company has considerable experience making these projections, but this
13 is not an exact science, particularly when we must also predict the
14 operational responses of the QF power suppliers. What I have shown
15 is that whenever the minimum load conditions would cause the
16 Company to cycle a baseload unit, we can be certain that the Company,
17 as a result, would incur net increased operating costs, or a negative
18 avoided cost. As contemplated by the FERC rules and this
19 Commission's rules, the Curtailment Plan lets the QFs know this
20 information *in advance* of the event so that we can avoid this very
21 condition from actually occurring.

22
23 The after-the-fact Unit Commit simulations which we ran are not, and
24 could not be, an exact measurement of the Company's negative avoided
25 costs. Furthermore, they should not be used to discredit the planning

1 and operational decisions that were made before a curtailment (e.g., the
2 specific curtailment amounts which allowed us to prevent the negative
3 avoided cost). This is because the Unit Commit runs represent an after-
4 the-fact reconstruction to illustrate how the system reasonably might
5 have responded *if* the actual curtailments had not occurred. The after-
6 the-fact "what-if" simulations are based on different information than
7 what we knew before-the-fact. For example, the actual curtailments
8 had to be based upon projected loads and resources. However, these
9 Unit Commit simulations reflect actual loads. Instead of projected QF
10 deliveries, they reflect the actual curtailments that were made.

11
12 In my estimation, no such after-the-fact Unit Commit simulations would
13 exactly corroborate planning decisions that were made before the event.
14 Nor would they exactly measure the cost differential between operating
15 scenarios with and without curtailment. But our simulations were very
16 conservative and more likely understate than overstate the magnitude
17 of any negative avoided costs. For instance, they do not capture all of
18 the potential "unit impact" costs of cycling and they assume optimal
19 start-ups, ramp rates and other system responses. In practice, start-ups
20 often take longer (and incur more costs) than we anticipate, QFs may
21 not respond exactly as instructed by the Plan, and numerous other
22 conditions could be less than optimal. The Unit Commit runs help to
23 illustrate my point that it is intuitively apparent before the minimum load
24 condition that the unit cycling scenario would produce negative avoided
25 costs and that the curtailments are justified under the circumstances

1 described in the Plan. The Unit Commit runs are not intended to prove
2 after-the-fact the exact magnitude of the negative avoided cost that the
3 Company was able to prevent by making the curtailment decision.

4

5 C. The Curtailment Plan Is Not Unfair To QFs Or Any Particular
6 QF
7

8 ~~Q. Mr. Yott claims that the Curtailment Plan is unfair and discriminatory~~
9 ~~against OCL. (Yott page 5). Is it true that OCL is treated unfairly~~
10 ~~under the Plan when it comes to output reductions during minimum load~~
11 ~~periods.~~

12 A. ~~No. Probably the best evidence that the Curtailment Plan includes a~~
13 ~~reasonable set of curtailment priorities and treats all QFs fairly is the~~
14 ~~fact that OCL is the only QF out of 22 affected QFs who has filed~~
15 ~~testimony complaining that they are unfair. Even Pasco is not named~~
16 ~~as a co-sponsor of the Yott testimony, as it is with respect to the~~
17 ~~Shanker and Glator testimony. Moreover, a number of other QFs who~~
18 ~~have agreed to voluntary output arrangements affirmatively support the~~
19 ~~Plan's curtailment priorities. These QFs recognize that all of Florida~~
20 ~~Power's QF suppliers are not similarly situated and that the curtailment~~
21 ~~groupings used in the Plan fairly reflect these differences in~~
22 ~~circumstances.~~

23

24 ~~As Mr. Dolan confirms, all of our QF suppliers including OCL have been~~
25 ~~given numerous opportunities to be included in the first priority~~
26 ~~curtailment category (Group A).~~

1 **Q. Does the Plan unfairly treat QFs as a class of wholesale power supplier?**

2 **A. I do not see how the Plan possibly could be said to disadvantage or**
3 **unfairly treat QFs as a class of wholesale power supplier. I say this**
4 **because the Plan in fact gives a superior curtailment priority to QF**
5 **suppliers than it does to the Company's own generating equipment and**
6 **its avoidable power purchases from other electric utility companies.**
7 **Before curtailing any QF under Rule 17-25.086, the Plan requires Florida**
8 **Power's system operating personnel to (a) curtail purchases from Tampa**
9 **Electric and the Southern Companies as much as possible (as noted**
10 **earlier, we have gone the extra mile to negotiate even greater**
11 **curtailment capability with Southern since filing the Plan); (b) shut off**
12 **its own intermediate and peaking units and reduce baseload units to**
13 **minimum acceptable operating levels; and (c) shut down its own**
14 **cogeneration plant entirely if operating conditions permit. The Company**
15 **is asking QFs to participate in the minimum load solution through**
16 **involuntary curtailments only after all other generating resources have**
17 **been substantially curtailed.**

18 **Q. Please explain why Florida Power does not consider the Group A, B and**
19 **C classification of QFs for curtailment purposes to be unreasonable or**
20 **unfair.**

21 **A. Placing the QF suppliers into one of the three curtailment categories**
22 **properly recognizes that all QFs are not similarly situated in terms of the**
23 **product that they are making available to the Company or the costs that**
24 **they allow the Company to avoid. One major distinction applies to as-**
25

1 available energy supplies which are consolidated into Curtailment Group
2 C. There has been no real quarrel by any party with the notion that as-
3 available energy supplies are inferior to firm power supplies in terms of
4 dependability and cost avoidance. As-available energy purchases are
5 not assured in terms of amount, time or certainty of delivery. This is
6 true whether the as-available energy is purchased separately or as an
7 amount above and beyond the committed capacity under a firm QF
8 contract. Because as-available energy offers the least value to the
9 system, it is reasonable to interrupt those purchases before a firm
10 power purchase is interrupted. Therefore, the Group C as-available
11 purchases are the first purchases to be curtailed under the Plan.

12
13 There is just as real and material a distinction between the Group A and
14 B QFs because none of the Group B QFs has agreed in writing to
15 provide firm output reduction commitments to help avoid or mitigate the
16 system's minimum load problems. Group A QFs, in contrast, have
17 agreed to provide the system with a significant benefit by clarifying or
18 enlarging the output reduction arrangements under their existing
19 contracts to establish predictable voluntary output reductions that the
20 Company can count on. Florida Power believes that it is both necessary
21 and appropriate to recognize this difference in quality of service during
22 minimum load hours in the distinction drawn between the Group A and
23 B curtailment priorities. We have also agreed to do this as a part of the
24 voluntary output reduction arrangements negotiated with the Group A
25 suppliers. As noted in Mr. Dolan's direct testimony (at pages 24-25),

1 the Company gave the Group A QFs assurance that it would seek to
2 obtain maximum curtailment from *other* QFs before asking the Group A
3 QFs for more than their voluntary output reductions. We believe that
4 the 50 percent curtailment cap applied initially to the Group B QFs
5 (which has not been contested by any party) is consistent with this
6 maximum curtailment commitment without being overreaching or
7 unreasonable.

8
9 **Q. Do you think it would be fair to ignore the factual distinctions between
10 the Group A, B and C QF suppliers?**

11 **A. No. I would have a hard time justifying a plan that ignored the
12 voluntary contribution made by the Group A QFs or that treated as-
13 available energy as if it were firm. These differences cannot be ignored
14 if we are to be fair to all QFs.**

15
16 ~~QCL, in effect, claims a preference rather than fair or comparable
17 treatment. Because it claims to be voluntarily (at its sole option)
18 offering some possible output reductions on a short-term basis during
19 minimum load periods, it wishes to be grouped together with other QFs
20 who have been willing to put specific and ongoing output reduction
21 commitments formally in writing. The fact remains that Florida Power
22 cannot depend upon any output reduction from QCL to manage the
23 minimum load problem as it can from those QFs who are included in
24 Group A because of their firm written commitments. In effect, just as
25 it makes sense to distinguish between (1) as-available energy (which is~~

1 not committed) and (2) firm energy (which is committed), it also makes
2 sense to distinguish between (3) optional QF output reductions (which
3 are not committed) and (4) written QF commitments to reduce output
4 (which are committed).

5
6 Q. Is it your understanding that treating differently situated QFs in a way
7 that accounts for these differences is consistent with the PURPA rules?

8 A. Yes. Under the PURPA rules, it seems to me that different treatment of
9 QF suppliers who are not similarly situated is perfectly appropriate. For
10 example, there always have been distinctions between the treatment of
11 as-available energy versus firm energy. Similarly, in the realm of QF
12 pricing, the rules allow consideration of numerous case-specific factors
13 such as the dependability of a QF's power supply and the extent to
14 which the QF enables the utility to avoid capacity and/or energy costs.

15
16 It has even been pointed out to me that in 1988, the FERC explained
17 that PURPA doesn't appear to prohibit rate discrimination *among*
18 individual QFs, as opposed to rate discrimination *against* QFs as a class
19 of power suppliers. The FERC also explained that differences in
20 circumstances, in any event, will frequently justify differences in
21 treatment of particular QFs. I find the FERC's observations instructive:

22 No court cases have definitively construed the
23 meaning of discrimination in the context of rates for
24 purchases of power from QFs under section 210, but the
25 most reasonable reading of PURPA precludes
26 discrimination against QFs as a class; it does not require
27 that all QFs be treated the same. The Commission's
28 current rules allow for different rates for QFs. The rules
29 recognize that avoided cost will tend to decline as more

1 QFs enter the market. The Commission's current rules
 2 also set the price at full avoided cost, but also provide for
 3 negotiated rates that fall below full avoided cost.
 4 Certainly, negotiations do not result in the same rate for
 5 all QFs. QFs offering different services or different prices
 6 are not similarly situated. Thus, differentiation among
 7 QFs is not necessarily discriminatory.

8 (See Regulations Governing Bidding Programs, IV FERC Stats & Regs ¶
 9 32,455 at 32,027 (1988) reproduced in part in Exhibit 17 (HIS-9)).
 10 Clearly the distinctions between the Group A, B and C QFs in Florida
 11 Power's Curtailment Plan are justified by differences in factual
 12 circumstances. I believe that making these distinctions is fair and that
 13 ignoring them ~~as proposed by Mr. Yott~~ would be unfair.

14
 15 Q. ~~Is Florida Power still willing to treat OGI as a Group A QF if it is willing~~
 16 ~~to enter into a written arrangement providing ongoing and secured~~
 17 ~~output reductions comparable to those agreed to by the other Group A~~
 18 ~~suppliers?~~

19 A. ~~We would be pleased to sign up all Group B QFs to mutually acceptable~~
 20 ~~written output reduction plans because this would simplify the burden~~
 21 ~~of dealing with the minimum load problem. Any Group B QF, including~~
 22 ~~OGI, is encouraged to do so.~~

23
 24 Q. ~~Mr. Yott would like to see the Curtailment Plan include a "banking"~~
 25 ~~arrangement which would give credit to QFs when they overcurtail on~~
 26 ~~one occasion so that they can avoid curtailment on another occasion.~~
 27 ~~Likewise, his proposal would debit QFs who underperform. (Yott pages~~
 28 ~~10-12). First, is it correct, as Mr. Yott suggests, that Florida Power is~~

1 making "value judgments about the QFs' individual [compliance]
2 circumstances"?

3
4 A. We are certainly attempting not to do so. As explained in my direct
5 testimony (at pages 50-51), we recognize that QFs may occasionally
6 experience temporary, uncontrollable operating conditions that will
7 prevent their strict compliance with the Curtailment Plan. Just as we
8 would expect to accommodate those circumstances at our own plants,
9 we intend to accommodate them at the QF plants. Toward that end,
10 Mr. Charles Harper has issued instructions to system operating
11 personnel confirming that they should document and accommodate QF
12 compliance difficulties as the Company would do for its own units. Mr.
13 Harper's instructions are set forth in a memorandum which I am
14 including as my Exhibit 17 (HIS-10).

15
16 Q. Would the banking arrangement proposed by Mr. Yott cause Florida
17 Power any operational problems?

18 A. I believe it would. When the system operators are trying to rapidly
19 balance generation and loads, they need to have good information as to
20 how much curtailment they can expect from each QF as well as access
21 to effective procedures for implementing these curtailments. If any of
22 22 suppliers had the option of not fully curtailing at the last minute,
23 then the system operating personnel could not reliably and cost
24 effectively balance the generation and load levels. In addition, the
25 operating function would become substantially more complicated. As

1 I have already testified, the Curtailment Plan is intended to promote
 2 predictability, ease of implementation, and effective results. I can
 3 appreciate OCL's desire to get some credit for over-compliance, but any
 4 under-compliance is highly problematic in that it (1) creates additional
 5 operating risk and (2) shifts the curtailment burden on that occasion to
 6 other QFs or to Florida Power. Even an assurance that someone will
 7 pay back tomorrow an amount which he under-contributes today does
 8 nothing to cure the minimum load problem today -- all it can do is
 9 ensure that today's problem will be worse.

11 **Q. Is there a better way for OCL to realize some credit if it chooses to over-**
 12 **comply rather than running its plant at a reduced output?**

13 **A.** This is exactly the circumstance mentioned in footnote 6 of the
 14 Curtailment Plan at page 29. If OCL wants to provide more curtailment
 15 than the system requires, I would encourage it to work with other
 16 similarly situated QFs to arrive at a sharing arrangement that may meet
 17 their mutual needs. If the system operators *know* in advance that on
 18 one occasion 80 MW of reduction is assured from OCL and on the next
 19 occasion 80 MW is assured from "X" QF, then generally speaking, the
 20 system could be run as effectively as if each of these QFs provided 40
 21 MW of reductions on each of the two occasions. I believe that this kind
 22 of arrangement allows individual QFs to satisfy their individual operating
 23 needs without involving unwilling QFs, confusing the curtailment
 24 process or setting up Florida Power as a curtailment compliance
 25 policeman.

1 Let me just add that OCL seems to be the only QF complaining of a
2 possible non-compliance problem, and Mr. Yott certainly hasn't
3 documented any such problem. OCL seems to believe that it would be
4 a regular over-contributor to a curtailment bank, but it has given no
5 reason to believe that there are other QFs who would regularly under-
6 contribute and thereby balance out the bank account. In fact, from our
7 experience to date, I do not share OCL's belief that there will be
8 persistent under-curtailment incidents. We are certainly expecting
9 ongoing compliance and I would hesitate to develop a mechanism that
10 encourages under-compliance for any reason.

11
12 If I am correct that under-compliance is not a material problem, and if
13 OCL would like to balance out its *own* occasional over-compliance with
14 a predictable methodology for under-curtailing on other occurrences,
15 then this is exactly the kind of issue that might be resolved amicably by
16 means of a voluntary output reduction plan such as we have repeatedly
17 encouraged QFs to discuss.

18 Q. Does this conclude your rebuttal testimony Mr. Southwick?

19 A. Yes.
20

1 Q (By Mr. McGee) Mr. Southwick, would you give us a
2 summary of your rebuttal testimony, please?

3 A Yes, it seems like most everything in my rebuttal
4 testimony has already been discussed in some depth this week,
5 so I won't belabor it all now. I would, however, like to
6 emphasize two things.

7 First, in regard to the negative avoided cost issue,
8 I've shown that to shut off a Crystal River baseload unit to
9 continue purchasing an equivalent amount of QF generation
10 would increase the cost to the ratepayers.

11 Furthermore, our calculations have been very
12 conservative and more likely understate rather than overstate
13 this result. For instance, these calculations do not capture
14 all of the potential unit impact cost of cycling, and they
15 assume optimal ideal start-ups and ramp rates. In the real
16 world, for example, start-ups often take longer and incur more
17 costs than the ideal optimal possibility. In fact, this is
18 true well over half the time.

19 Second, and again involving the issue of ratepayer
20 neutrality, is the issue of mitigation. Florida Power has
21 done everything that is cost-effective to mitigate
22 curtailments to go further with increased ratepayer cost. The
23 concept has been presented of selling power off-system at a
24 dump price, say, \$1 per megawatt-hour, would increase the cost
25 to the ratepayers. Any validity to this concept of the \$1

1 sale is based on the assumption that our QF purchases are
2 virtually unsaleable; in effect a take-or-pay contract. In
3 fact, it has been established by Mr. Dolan, they are not. The
4 contracts as well as the FERC and this Commission's rules are
5 all based on the principle of ratepayer neutrality.

6 MR. MCGEE: Tender Mr. Southwick for cross
7 examination.

8 CHAIRMAN CLARK: Ms. Walker?

9 MS. WALKER: No questions.

10 CHAIRMAN CLARK: Mr. McGlothlin? Mr. Presnell?

11 MR. PRESNELL: Commissioners, I have the unenviable
12 task of the responsibility of cross examining the last
13 rebuttal witness on a day when the primary objective of
14 everyone, including myself, is to get out of here, so I will
15 try to be brief but I do have some questions if you'll bear
16 with me.

17 CROSS EXAMINATION

18 BY MR. PRESNELL:

19 Q Mr. Southwick, during minimum load conditions, it's
20 part of Florida Power's curtailment plan to reduce its own
21 generating resources to the lowest possible level before
22 curtailing the QFs, correct?

23 A Given adequate system reliability.

24 Q And you would admit that sometimes that's not
25 possible. For example, on the event on October 19th you were

1 unable to cycle off your Bartow and Anclote units correct?

2 A That's correct.

3 Q Now, Mr. Harper, in his redirect indicated that that
4 allowed Florida Power to bring Crystal River 4 down to a lower
5 level than it normally would come down to. Do you recall that
6 testimony?

7 A Yes.

8 Q Do you have a copy of Mr. Harper's testimony there
9 with you?

10 A I was just handed one.

11 Q All right. That's because I gave your counsel
12 warning I was going to ask you about it.

13 If you would turn to the back of Tab 7 and look at
14 the minimum load emergency curtailment work sheet for that
15 date. Are you with me?

16 A Not yet. What does it look like? Is that this?

17 Q Yes, sir. And there should be one there for October
18 19th. The first one. Do you see the entry there for Crystal
19 River Unit No. 4?

20 A I'm not quite there yet. Where's the date on here?
21 I'm not familiar with this sheet. This may take a while.

22 Q It's up in the top?

23 A Uh-huh. Is it written in black?

24 Q Well, It shows up in the white. Its in the black
25 band.

1 A No, I haven't seen it.

2 Q Okay. Do you see the FPC units at the bottom?

3 A Yes.

4 Q And there's a summary of the output of those units
5 for each hour during the curtailment period to the right?

6 Would you agree with me that the Crystal River 4 unit was
7 brought down to the 150-megawatt level only one hour during
8 that period? That is during the hour ending at 0300?

9 A Yes.

10 Q Now, it's also true, is it not, that during some
11 curtailment episodes Florida Power had some of its baseload
12 coal units cycled off?

13 A I believe so.

14 Q And would you agree with me that your baseloaded
15 coal units are routinely cycled off during the course of a
16 year for various reasons?

17 A Yes.

18 Q In your position as the -- what, you're the head of
19 the Energy Supply Department?

20 A We call it Energy Control.

21 Q Can you give the Commission an estimate of your four
22 baseloaded coal units, approximately how many total times
23 during the course of a year these units would be cycled off
24 for some reason other than for curtailments?

25 A I don't have that data.

1 Q Would it be fair to say that an average coal unit is
2 cycled off at least 20 to 30 times a year or more?

3 A I don't think that would be fair. That sounds a
4 little heavy.

5 Q I'm sorry?

6 A I think that's too much.

7 Q Well, what do you think would be a reasonable range?

8 A Probably 10 to 20.

9 Q All right. Now, you would also agree with me that
10 on more than one occasion when you curtailed the QFs you did
11 not cycle off your own cogeneration unit at the University of
12 Florida, correct?

13 A I believe there was one occurrence of that.

14 Q Well, I believe Mr. Harper's exhibits reflect that
15 it was on more than one occasion, are you --

16 A That could be. I'm not familiar with Mr. Harper's
17 exhibits that well.

18 Q All right. Now, let's talk a minute about the issue
19 of surplus energy and your effort to sell that energy in order
20 to avoid the necessity to curtail. And you would agree with
21 me that an effort to mitigate and avoid curtailment by selling
22 excess power is inherent and a part of Florida Power's
23 curtailment plan, is it not?

24 A Yes, it is.

25 Q And when weather conditions dictate and you're

1 facing a minimum load, generally you have between 12 and 24
2 hours notice that you may have a minimum load problem,
3 correct?

4 A No, I wouldn't call it notice. We have a heads up
5 that there's a good probability that something is coming. But
6 I wouldn't call it notice, because we don't know for a fact at
7 that point, no.

8 Q Well, you have a good indication that you may have a
9 problem?

10 A We have an indication that we may have a problem.

11 Q And as the records reflect, you know, if you think
12 weather conditions are going to be such on the early morning
13 of January 1st that you might reach a minimum load problem,
14 you'll start making efforts to sell energy off-broker as early
15 as December 30th, correct?

16 A We would, yes.

17 Q And if you anticipate having a need to shed 200
18 megawatts of power, you will send out a message on the
19 bulletin board to all of the utilities in Florida to see if
20 there is a buyer for 200 megawatts of power during the period
21 that you think the curtailment would exist, correct?

22 A Well, that probably oversimplifies it. We might do
23 that, but more likely we would make personal phone calls. We
24 very likely may do both.

25 Q Okay. And if you're not successful in shedding that

1 power through advanced phone calls or through participation on
2 the bulletin board, then you have available to you the Florida
3 broker system to try to sell excess or surplus energy,
4 correct?

5 A That's still available, yes.

6 Q All right. Now, it seems to me that the problem, or
7 the dispute or issue that we have between Florida Power and
8 the QFs with respect to your ability to sell that power,
9 relates to the method by which you price that power. And if I
10 might approach the chart for a moment, go back to the original
11 example we had used with Mr. Harper, I want to make sure I
12 understand your position and what the issue is.

13 Let's assume that Florida Power is operating its
14 baseload facilities at its minimum. In other words, Florida
15 Power is generating -- its own generating resources are
16 operating at its minimum reasonable level, and that level
17 together with the QF purchases, assuming that you have
18 voluntarily obtained the commitments or the reductions from
19 the QFs that are voluntary and that you're at 2,200. Now,
20 let's assume that at that point you calculate your
21 as-available price at \$15. And as I understand it, you
22 calculate the price at which you would sell energy, at what
23 you believe to be your incremental cost of producing that
24 energy, correct?

25 A That's correct.

1 Q So let's assume that you price that energy at a cost
2 that you -- that your pricing sheet that Mr. Harper referred
3 to is at \$15. Now, let's assume that the load drops to 2,000,
4 and you're in a surplus situation and a minimum load problem.

5 Is it Florida Power's position that the price of
6 that block of energy is calculated the same way, and that you
7 would arrive at a \$15 per megawatt-hour price when you're in a
8 200-megawatt surplus situation the same as you would if you
9 were operating with a balanced load?

10 A Yes, it would be \$15.

11 Q And is there anything in the FERC rules or
12 regulations that requires you to calculate your incremental
13 cost in that fashion?

14 A That's my understanding, yes, sir.

15 Q You refer in your rebuttal testimony, Mr. Southwick,
16 on several different occasions to pricing energy this way
17 under "established interchange practices in the state of
18 Florida." You see at Page 22 of your testimony? Can you tell
19 me how is it that these established interchange practices in
20 Florida were established among the various utilities?

21 A They've evolved over time, obviously. And they are
22 all consistent, at least I know ours are, I can't speak for
23 the others, with the FERC regulations.

24 Q So as far as you understand there's a general
25 agreement among the utilities in Florida that no one will

1 offer power on the wholesale market at less than what they
2 calculate their incremental cost to be, correct?

3 CHAIRMAN CLARK: Mr. Presnell, you need to stay near
4 a microphone.

5 MR. PRESNELL: I'm sorry. I'm getting back into my
6 old habit of pacing while I question a witness.

7 A I don't know of any agreement among the utilities on
8 how to arrive at their pricing. We certainly -- I'm not aware
9 of any.

10 The broker system has a guideline on how to develop
11 pricing for the purposes of the broker, but I'm certainly not
12 aware of any agreement we have made with any of the utilities
13 on how to price our product or their product. We price our
14 product based on what -- the way we do it, which is based on
15 the FERC regulations, and they'll have to speak for
16 themselves.

17 Q Well, you say it's consistent with established
18 interchange practices in Florida, so is it your understanding
19 that all utilities in Florida engage in this same price --

20 A Well, it seems to generally work that way. I've
21 never seen anybody selling power for free.

22 Q No, sir, i'm not suggesting that you necessarily
23 sell it for free.

24 Has Florida Power ever made an effort to go to the
25 FERC to change its tariff to allow market-based pricing so

1 that you could sell your power at less than what you compute
2 your incremental cost to be during low load situations?

3 A I'm not aware of such an effort.

4 Q Is such an effort possible?

5 A To get a FERC approval for market-based pricing,
6 which has been talked about a lot recently in the industry, is
7 a very new thing and it gets into all kinds of -- I'm trying
8 to think of the term -- the open access transmission and some
9 of the more recent events have gotten into a lot of issues
10 that involve market-based pricing. We're not allowed to do
11 market-based pricing. We're required to do cost-based
12 pricing.

13 Q And it's your position that the FERC regulations
14 require you to price your incremental cost the same when
15 you're in a surplus situation as you would when you are at a
16 balanced load, correct?

17 A It requires us to price it no less than our
18 incremental cost at any time.

19 Q Well, but that's not my question. My question is,
20 is it your position that the FERC regulations require you to
21 reach the same result in calculating that price whether you're
22 at a balanced load or you're in a 200-megawatt surplus
23 situation, because that's the way you say you price your
24 energy.

25 A If you define this as a 200-megawatt surplus

1 situation, I would say yes. I don't define it as that,
2 because we have another alternative available to us and that
3 alternative is to curtail the QFs and bring that 2,000 back
4 into balance. As we said, the QFs in our opinion are not
5 take-or-pay contracts.

6 Q In your opinion, QFs really aren't firm contracts,
7 are they?

8 A I'm sorry?

9 Q In your opinion, the QFs really aren't firm
10 contracts, are they?

11 A They are a firm contract. They are not take-or-pay.
12 There's a very big difference.

13 Q Now, let's look at Tab 7 again of Mr. Harper's
14 testimony. And we've numbered our pages, Page 29, and what it
15 is, is a good ways toward the back there is a sheet reflecting
16 the broker quotes that Florida Power made during the early
17 morning hours of January 30th when it was curtailing the QFs.
18 So if you'll find that sheet for me.

19 A 29 from the front?

20 Q Yes, sir.

21 A Okay.

22 Q And I'll be happy to help you find these pages if it
23 will expedite things.

24 A I think I have 29 pages.

25 Q Okay. You see the sheet that says, "Daily Broker

1 Quote Report, Monday, January 30th"?

2 A Yes, sir.

3 Q Would you agree with me that that's a list of the
4 sale quotes Florida Power made on the broker that evening in
5 an effort to shed excess power?

6 A Yes.

7 Q Do you know why Florida Power offered to sell less
8 energy than it needed in order to solve the curtailment?

9 A I suspect somebody made a judgment that we could
10 maybe sell a block of 50 but not more. I don't know the
11 absolute answer to that; I didn't do that.

12 Q And you would agree with me that your ability to
13 sell blocks of energy on the broker depends, by and large, on
14 the price that you offer to sell at, correct?

15 A Yes.

16 Q And you don't know to what extent there's a market
17 for your power until you put a price on it and see if the
18 computer matches up, correct?

19 A They don't know, but they have a real good idea.

20 Q Now, this indicates that you are pricing your broker
21 sales in 50- to 100-megawatt blocks in the \$14 range, correct,
22 during the early morning hours of January 30th?

23 A Yes.

24 Q And if you'll go four full pages past that and turn
25 the page, which is the backside of Page 33, we'll see the

1 results of those efforts. You'll see a sheet that says,
2 "Daily Broker Schedule Report, Monday, January 30th, 1995."
3 Do you see that?

4 A Yes.

5 Q Now, let's just walk through this one example and
6 make sure we all understand what this information portrays.

7 At 1:00 in the morning, the hour ending, or for the
8 period between midnight and 1:00, there were two utilities
9 whose decremental price matched up with Florida Power's offer
10 to sell energy on that evening, correct? Tallahassee, 25
11 megawatts; and Kissimmee of 16 megawatt, correct?

12 A That's correct.

13 Q So you were able to sell 41 megawatts over the
14 broker, and you would agree with me that that energy cleared
15 at a price halfway between 14.47 and either 17.40 or 19.11,
16 correct?

17 A That's correct.

18 Q So that those clearing prices, the price at which
19 Florida Power was paid for that energy, was \$15 to \$16,
20 correct?

21 A Yes.

22 Q So the \$15 to \$16 that you sold that energy for was
23 more than what you calculated your production cost to be for
24 that energy, correct?

25 A Yes.

1 Q And that's at the same time you were curtailing the
2 QFs, correct?

3 A I believe so.

4 Q So you were making a profit off of your surplus
5 energy sale at the same time that you were curtailing QF
6 energy, right?

7 A Yes.

8 Q Now, if you look at the hours of 2:00, 3:00 and
9 4:00, you would admit that the broker effected no sale for
10 Florida Power during those hours because other utilities were
11 on the broker offering to sell power at a lower price,
12 correct?

13 A Yes.

14 Q And you would agree with me that primarily during
15 that period of time FPL was on the market, the wholesale
16 market, selling economy energy or offering to sell energy in
17 the \$11 to \$12 range, correct?

18 A Yes.

19 Q And if Florida Power had priced its energy at \$11,
20 would you agree with me that you would have been able to sell
21 all of that power instead of Florida Power and Light?

22 A Yes.

23 Q And if you had offered to sell your energy at \$11,
24 when Kissimmee and Key West was buying or submitting buy bids
25 at 19, you would agree with me that you could have sold that

1 energy at a price in excess of your incremental -- of the way
2 you calculate your incremental cost, correct?

3 A It may have worked out that way.

4 Q So if you had dropped your price to \$11, you still
5 could have sold more megawatts and still made a profit at the
6 time you're curtailing the QFs, right?

7 A It could have worked out that way.

8 Q Well, it does work out that way, doesn't it?

9 A Well, we would be in violation of the broker
10 guidelines in how to price our product. We'd be in violation
11 of the FERC rules.

12 Q Well, let's talk about the broker guidelines. Who
13 regulates the broker guidelines?

14 A I don't know if anybody regulates them per se.

15 Q The fact of the matter is, nobody regulates those
16 guidelines other than the utilities who participate in the
17 Florida broker system, correct?

18 A I don't believe that's true. It's the rules of the
19 road.

20 Q There's no regulatory oversight of how you
21 administer the Florida Energy Broker Program, is there?

22 A At least indirectly there is because everything we
23 sell and buy is -- ultimately winds up in the fuel adjustment
24 and is approved by this Commission.

25 Q But the price you obtain for selling and buying

1 power at wholesale is not regulated by this Commission, is it?

2 A No, it's not.

3 Q And the rules and regulations that govern how the
4 Florida Energy Broker works is not regulated by this
5 Commission or the FERC is it?

6 A It's not regulated by them, no, sir.

7 Q Now let me approach the chart again and make sure I
8 understand what your position is on this subsidy issue that
9 you keep talking about.

10 CHAIRMAN CLARK: Mr. Presnell, how much more do you
11 have for this witness?

12 MR. PRESNELL: 15 minutes.

13 CHAIRMAN CLARK: Okay. Go ahead.

14 MR. PRESNELL: Does a trap door open if I go 16?

15 CHAIRMAN CLARK: That's right.

16 Q (By Mr. Presnell) Let's take the horizontal basis
17 and assume this is a 24-hour period. And on the vertical axis
18 we'll assume that this is -- we'll start at midnight and go a
19 24-hour day until 11:59 p.m. And on this axis we'll take
20 Florida Power's incremental cost or its as-available pricing
21 in 5 megawatt increments, 5, 10, 15, 20, 25, 30, and I suppose
22 one could go higher.

23 A I'm sorry, what was that?

24 Q These are dollars per megawatt-hour of your
25 incremental cost or your as-available rate?

1 A Okay.

2 Q Okay? Now, let's assume that under the QF contracts
3 you're paying those QFs a firm price for energy sales and you
4 understand that to be an aspect of the contracts between the
5 QFs and Florida Power that there's an energy rate Florida
6 Power pays for the energy delivered by the QFs to Florida
7 Power.

8 A You mean do we pay the QFs for the energy they
9 deliver us?

10 Q Yes, sir, at a firm rate, as opposed to a rate that
11 fluctuates with your as-available pricing.

12 A I'm not a real expert on how the pricing works out,
13 but it's my understanding that it's not always the same, no.
14 It depends on which contract we're talking about. There are
15 several different contracts.

16 Q Let's talk about the OCL contract.

17 A I'm not familiar with the OCL contract.

18 Q Well, assume with me for a minute that up until
19 August of last year OCL was paid a firm energy rate for all of
20 the delivery it delivered up to its committed capacity to
21 Florida Power at a rate of \$20 a megawatt-hour.

22 Now, as I understand the way your incremental
23 pricing and as-available pricing works, when you're in low
24 load periods, like early in the morning when demand is low,
25 the incremental cost is low, and your as-available price is

1 low. And as the load picks up and as the demand increases,
2 Economics 101 would dictate that the cost goes up, correct?

3 A Yes.

4 Q So because we have been using \$15, let me draw a
5 line here during the early morning hours when demand is low,
6 your as-available rate is low, and then during the day it
7 picks up and then gradually drops back off again during the
8 evening hours. Is that a fair representation of the way the
9 as-available works during the course of a day as your demand
10 increases?

11 A Could be.

12 Q Now, would you agree with me that in the essence of
13 a firm contract if there are levelized firm energy payments
14 being made to the QF, that as your demand increases during the
15 course of a day and your production costs increase, Florida
16 Power gets the benefit of the period of time during which the
17 as-available rate or your production cost exceeds the firm
18 rate that you're paying the QFs?

19 A Sure. That's the whole purpose.

20 Q And so the whole purpose is to get a subsidy from
21 the QFs during those periods of time in which your production
22 cost is higher than the firm rate?

23 A No, sir, that's why we have such a big capacity
24 payment to the QFs.

25 Q So you would agree --

1 A We're buying, in effect, a coal-based unit, so we
2 can't pay more than a coal price.

3 Q Well, you would agree with me that it's not as
4 simple as determining a difference between the energy cost or
5 the as-available rates in determining whether or not there's a
6 subsidy involved; you have to include things like a capacity
7 commitment, correct?

8 A It depends on what we're looking at here. We're
9 starting to get a little off kilter, I believe. Are we
10 talking about a subsidy during the minimum load period?

11 Q Uh-huh.

12 A No, I believe during a minimum load period that if
13 we're to the point where we have the choice to either curtail
14 the QF suppliers or shut off one of our baseload units, and if
15 we do not curtail the QF suppliers, they will be
16 subsidizing -- the ratepayers will be subsidizing them, that's
17 what I believe during that situation. Now, we can talk about
18 other situations.

19 Q You're talking about during the situation here there
20 would be a subsidy?

21 A Yes.

22 Q And during that period the ratepayers are
23 subsidizing the Southern purchase at \$20 a hour, are they not?

24 A It could be looked at that way, but the difference
25 is of the Southern contract does not have the ability to be

1 curtailed and the QF contract does.

2 Q You just signed a settlement agreement with
3 Auburndale, did you not?

4 A I believe we did.

5 Q And with Auburndale you agreed to pay them within
6 10% of the firm rate even if it's above your production cost,
7 correct?

8 A If you all would like to talk about a settlement
9 agreement, I'm sure we could work on that.

10 MR. PRESNELL: We would like, Chairman Clark, to
11 introduce into the record the Auburndale agreement. A summary
12 was submitted with the understanding that we would receive a
13 copy of it. We have it and we think it's pertinent that the
14 record include the full agreement, so we would ask that that
15 be submitted into evidence.

16 MS. WALKER: Chairman Clark, we would object to the
17 admission of that into evidence at this point.

18 The summary was admitted to update Mr. Dolan's
19 testimony. None of the other curtailment agreements have been
20 admitted into evidence. The settlement agreement is not a
21 subject in this proceeding. It is not relevant. And it is
22 also outside the scope of Mr. Southwick's rebuttal testimony.

23 MR. PRESNELL: I don't have any objection coming
24 from Florida Power. The document was made public yesterday,
25 it was provided to counsel under the commitment of Florida

1 Power to make it available. It is clearly relevant to this
2 witness' cross examination, because they just signed an
3 agreement with Auburndale whereby they concede that there's a
4 subsidy. So it's inconsistent and certainly allowable within
5 the scope of cross examination.

6 CHAIRMAN CLARK: Mr. Presnell, do you have copies of
7 that?

8 MR. PRESNELL: I have a copy. I will be glad to
9 make copies available. I did not bring copies with me.
10 Copies are available.

11 CHAIRMAN CLARK: Are you indicating that you would
12 like to introduce that exhibit at this point and continue
13 cross examining Mr. Southwick on it?

14 MR. PRESNELL: Yes. But I'm not going to ask him
15 specific questions about it, so we don't need to stop the
16 cross examination for that purpose.

17 CHAIRMAN CLARK: Go ahead with your cross
18 examination, and we'll take up your request to have it
19 introduced into the record later.

20 Q (By Mr. Presnell) Do you understand, Mr. Southwick,
21 that the agreement that you've reached with Auburndale would
22 require you to pay Auburndale a rate which on occasion would
23 exceed your incremental cost?

24 A Yes.

25 Q And to that extent you've just agreed with

1 Auburndale to subsidize Auburndale at the expense of your
2 ratepayers?

3 A In exchange for other valuable benefits.

4 Q What benefits are those?

5 A I'd have to pull the thing out and read it to get it
6 back in my head. But that's the whole nature of a settlement
7 agreement, you give and you take.

8 COMMISSIONER DEASON: Let me ask a question.

9 WITNESS SOUTHWICK: Yes, sir.

10 COMMISSIONER DEASON: The question to you concerned
11 Auburndale and whether there would be periods of time when the
12 payment to Auburndale exceeded Florida Power's incremental
13 cost; is that correct?

14 WITNESS SOUTHWICK: That's what I understood him to
15 ask, yes, sir.

16 COMMISSIONER DEASON: The way I view that graph,
17 there's going to be periods of time when the payments to
18 Orlando CoGen would exceed your incremental cost as well; is
19 that correct?

20 WITNESS SOUTHWICK: Yes. The way he drew the graph,
21 yes.

22 COMMISSIONER DEASON: I can't ask Mr. Presnell a
23 question; I'll ask you. What's the significant of that, then?

24 WITNESS SOUTHWICK: I guess he's getting back to the
25 low load period.

1 MR. PRESNELL: I'm sorry, maybe my questioning was
2 not clear enough in my haste not to fall through the trap
3 door.

4 Q (By Mr. Presnell) Mr. Southwick, is it true that
5 you have an arrangement with Auburndale whereby even in low
6 load situations you would agree to pay them a price in excess
7 of your as-available rate; not when they are curtailed but
8 during low load situations?

9 A During low load situations other than during the
10 curtailment period. And I believe as part of that settlement
11 they are not going to contest the curtailment situation, so
12 they won't get paid during that.

13 Q Well, they won't get paid during the period of time
14 that they're not delivering energy?

15 A Right.

16 Q But during the periods of time that they are
17 delivering energy they will be paid at a rate which approaches
18 their firm rate, or is equal to their firm rate, even when
19 that rate exceeds Florida Power's incremental?

20 A There will be times when they will be paid more than
21 incremental cost.

22 COMMISSIONER DEASON: Will there be times when
23 Orlando CoGen will be paid a rate that exceeds Florida Power's
24 incremental cost during a low load situation?

25 WITNESS SOUTHWICK: Not under the current billing

1 practices, as I understand them. I'm not an expert on pricing
2 of the cogeneration.

3 COMMISSIONER DEASON: Okay. Well, then, is that
4 graph incorrect? I would assume --

5 WITNESS SOUTHWICK: He assumes --

6 COMMISSIONER DEASON: Let me ask my question,
7 please.

8 WITNESS SOUTHWICK: I'm sorry, yes, sir.

9 COMMISSIONER DEASON: Okay. Thank you.

10 I had to use my hand. I don't have a gavel anymore.

11 That graph says to me that OCL is going to be paid
12 \$20 per megawatt-hour regardless of the time of day. Is that
13 the way you interpret that graph?

14 WITNESS SOUTHWICK: Yes, sir. I interpreted that he
15 said, "We'll assume that they are paid \$20 all the time." And
16 given that assumption that's the way I interpreted it, yes,
17 sir.

18 COMMISSIONER DEASON: Okay. But you're saying in
19 the real world, though, they are not paid \$20 a megawatt-hour
20 24 hours a day.

21 WITNESS SOUTHWICK: I don't believe they are.

22 COMMISSIONER DEASON: You don't know?

23 WITNESS SOUTHWICK: I don't believe they are, but --
24 I don't believe they are.

25 COMMISSIONER DEASON: Okay. Thank you.

1 MR. PRESNELL: Commissioner Deason, an explanation
2 for that is, and I premise my question, up until August that's
3 the way we were paid. That's when they changed the pricing.
4 That's what is involved in a lot of the litigation that's
5 going on and we're not trying to make that a part of this
6 proceeding because you denied jurisdiction over that, and I
7 think properly so. But that's just an explanation of why I
8 used the example up until August of 1994 in my question.

9 COMMISSIONER DEASON: Okay. Thank you.

10 MR. PRESNELL: That's all the questions I have.
11 Thank you for your patience.

12 CHAIRMAN CLARK: Thank you, Mr. Presnell.

13 We're going to take break until 1:00.

14 Mr. Watson, do you have some questions?

15 MR. WATSON: No.

16 CHAIRMAN CLARK: Mr. Wright?

17 MR. WRIGHT: Madam Chairman, my questioning of
18 Mr. Southwick is very brief, I promise.

19 CHAIRMAN CLARK: We'll do it after lunch at 1:00.

20 MR. WRIGHT: Okay.

21 MS. BROWN: We just have one.

22 CHAIRMAN CLARK: All right. Thank you.

23 (Thereupon, lunch recess was taken at 12:10 p.m.
24 until 1:00 p.m.)

25

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1 CHAIRMAN CLARK: We'll reconvene the hearing.
2 Mr. Wright.

3 MR. WRIGHT: Thank you, Madam Chairman.

4 HENRY I. SOUTHWICK
5 resumed the stand as a witness on behalf of Florida Power
6 Corporation and, having been previously sworn, testified as
7 follows:

8 CROSS EXAMINATION

9 BY MR. WRIGHT:

10 Q Good afternoon, Mr. Southwick. As advertised, I
11 have a few brief questions for you.

12 In your responses to cross examination by
13 Mr. Presnell you stated that it's your belief that the Federal
14 Energy Regulatory Commission regulations prohibit Florida
15 Power from charging less than its incremental cost; is that
16 correct?

17 A That's correct.

18 Q Can you tell me to what FERC regulations you're
19 referring?

20 A No, I can't.

21 Q To your knowledge, are there any FERC regulations
22 that prescribe the calculation of incremental cost?

23 A I'm not personally familiar with the regulations.
24 I've never read any, but I base my opinion on the advice I
25 have been given by my attorney.

1 Q Thank you. Are you familiar with Florida Power
2 Corporation's FERC-approved tariffs for wholesale power
3 transactions?

4 A Somewhat.

5 Q Do you know whether they say that Florida Power will
6 price such sales at incremental cost or whether they prescribe
7 a formula by which those incremental costs will be calculated?

8 A I'd have to look and see if they say that or not. I
9 don't believe there's a formula in them, but I don't know what
10 they say in that respect. I would have to go look and see.

11 Q Okay. I'll just ask the first half of my question.
12 Do you know whether they just say that you will price at
13 incremental cost? If your answer is, "I don't know," then --

14 A I don't know.

15 Q Okay. Also in response to some questioning by
16 Mr. Presnell you indicated that if you were to -- I think in
17 the example he used, or that you and he were discussing, that
18 if you had priced during a certain event at \$11 a
19 megawatt-hour on the broker that you, that is Florida Power
20 Corporation, would have been in violation of broker
21 guidelines. Do you recall that conversation?

22 A Yes.

23 Q My question is what would happen if you violated the
24 broker guidelines?

25 A Well, there's two or three things that I have a

1 problem with that situation.

2 Number one, we can't quote a price below our
3 incremental. I think that would be a violation of the FERC
4 rules. If we did, and in that example that we looked at
5 earlier, the average, after the 50/50 split worked out to be
6 above incremental, and you say, "Well, that would be okay."
7 But you didn't know going in that that was going to be the
8 result. You'd be gaveling that you'd luck out and not be in
9 violation of the FERC rules, and maybe you wouldn't luck out
10 and we wouldn't take that chance.

11 But beyond that in a more generic sense, if we
12 started gaming the broker, the broker is going to fall apart.
13 It's a contract that we all have that we'll follow these rules
14 of the road, and if everybody follows it, the system works
15 beautifully and the ratepayers save an awful lot of money.
16 And if we start gaming it and if everybody else starts gaming
17 it, it's going to fall apart, and we'll lose the advantage of
18 the program.

19 Q Do you mean to suggest that the QFs in this case are
20 advocating that you "game the broker"?

21 A No, I didn't say that.

22 Q I didn't think so; I wanted to make sure, however,
23 because you did use that phrase.

24 You made reference in your last response to a
25 contract that you have. What would the sanctions be if you

1 were to offer a price to sell on the broker at less than what
2 you understand to be required by the broker guidelines?

3 A Well, the broker guidelines simply re-enforce the
4 FERC rule, that we can't quote below incremental cost. I
5 don't know of any sanctions in the broker guideline rules.
6 It's rules of the road that we've all agreed to follow,
7 through our participation in the broker. I would think that
8 the real sanction, if you want to think of it as why we have
9 to do it, is because of the FERC guidelines.

10 Q Okay. Just assume for the purpose of the next
11 question that the FERC rules don't require you to price in any
12 particular way. Would there be sanctions if you were to price
13 below what you say your incremental cost is from your broker
14 or the members of the Florida Electric Power Coordinating
15 Group?

16 A No, there's no sanctions in the broker itself.

17 Q Thank you. That's all I have.

18 CHAIRMAN CLARK: Thank you, Mr. Wright.

19 Staff?

20 CROSS EXAMINATION

21 BY MS. BROWN:

22 Q Mr. Southwick, Mr. Presnell asked you at least one
23 question about the firm nature of your QF contracts. Do you
24 remember that?

25 A Yes.

1 Q And yesterday Mr. Shanker spoke frequently of
2 Florida Power Corporation's obligation to honor its
3 contractual commitments to QFs. Do you remember that?

4 A Yes.

5 Q Would you agree with me that Florida Power
6 Corporation has another fundamental obligation that it must
7 honor at all times, at peak periods and low load periods, and
8 that is the obligation to provide reliable cost-effective
9 electric service to its ratepayers?

10 A Yes.

11 MS. BROWN: No further questions.

12 CHAIRMAN CLARK: Thank you.

13 Commissioners? Redirect?

14 MR. MCGEE: Just one, Madam Chairman.

15 REDIRECT EXAMINATION

16 BY MR. MCGEE:

17 Q Mr. Southwick, you were asked several questions, I
18 believe, by Mr. Presnell and Mr. Wright regarding the
19 arrangements under which Florida Power makes sales on the
20 broker. What I wanted to ask you is that once the broker
21 makes a match between a buyer and a seller, how is that
22 transaction actually carried out?

23 A The transaction is actually carried out through the
24 terms of the interchange contracts between the buyer and the
25 seller.

1 Q And are those interchange contracts on file with
2 FERC?

3 A Yes. They are all FERC-approved contracts.

4 MR. MCGEE: That's all I have.

5 CHAIRMAN CLARK: Thank you, Mr. McGee.

6 MR. MCGEE: We'd ask that -- you may have to help me
7 again -- Composite Exhibit 17, I believe, be admitted into the
8 record, if that's the correct number.

9 CHAIRMAN CLARK: That's correct. Exhibit 17.

10 MR. MCGEE: Thank you.

11 CHAIRMAN CLARK: Be admitted in the record without
12 objection.

13 (Exhibit No. 17 received in evidence.)

14 MR. PRESNELL: And we would move the admission of
15 the settlement agreement, the Auburndale, which I have copies
16 of now.

17 CHAIRMAN CLARK: Okay.

18 MR. FAMA: Chairman Clark Florida Power objects to
19 the admission of the Auburndale agreement.

20 MS. WALKER: Auburndale also renews its objection.

21 MR. FAMA: Commissioner Clark, if I could address
22 that.

23 CHAIRMAN CLARK: Yes, if you'll give me a chance to
24 get the agreement. (Hands document to Commissioners.)

25 Thank you. It will be marked as Exhibit 18.

1 Go ahead, Mr. Fama.

2 MR. FAMA: Thank you.

3 Mr. Dolan offered a summary of the curtailment
4 provisions in that settlement agreement when he sponsored his
5 direct testimony. His direct testimony originally had in it a
6 summary of settlement -- excuse me, of curtailment procedures
7 that were no longer accurate, because there were new
8 curtailment procedures in the new settlement.

9 At that time I told the Commission I had the full
10 copy of the settlement agreement, because I thought that a
11 party might object to our summary and want to check the
12 veracity and the accuracy of what was in the settlement. Not
13 because I intended to introduce the document. I did not offer
14 it in any way; I didn't have Mr. Dolan sponsor it or anything
15 of the sort. So when our summary went into evidence, and
16 there hasn't been any objection to the accuracy of our
17 summary, I thought it was a dead issue up until now.

18 It was well beyond the scope of Mr. Southwick's
19 rebuttal testimony. He didn't attach it. He's not a
20 sponsoring witness. I think Mr. Presnell is missing a crucial
21 element of trying to get a piece of evidence into the record.
22 He doesn't have anybody to sponsor it. I don't believe
23 Mr. Southwick is an expert on that. I know he reviewed some
24 earlier drafts, and I would invite the Commission or
25 Mr. Presnell, or I can ask questions about Mr. Southwick's

1 knowledge, but I don't think he has enough expertise to
2 sponsor the document.

3 As far as Mr. Presnell's cross examination, if you
4 treat it as a hypothetical, then it's okay. But I don't think
5 his cross examination alone is enough to get in that piece of
6 evidence. And so, therefore, I'd urge you to keep it out.

7 CHAIRMAN CLARK: Ms. Walker.

8 MS. WALKER: The settlement agreement should not be
9 admitted into evidence for several reasons. In addition to
10 those just mentioned by Mr. Fama, it is clearly beyond the
11 scope of Mr. Southwick's rebuttal testimony. Mr. Southwick
12 nowhere in his rebuttal testimony mentions the settlement
13 agreement with Auburndale. In fact, he could not have because
14 his rebuttal testimony was submitted on May 2nd, and the
15 agreement wasn't executed until May 3rd.

16 Also, we agree with Mr. Fama that Mr. Presnell has
17 missed the boat. Mr. Dolan would have been the appropriate
18 witness that possibly could have sponsored the settlement
19 agreement. Mr. Presnell had the opportunity to cross examine
20 Mr. Dolan at that time; that was not done. Mr. Southwick
21 cannot support this document.

22 It is also not relevant to the issue before the
23 Commission in this proceeding to the extent that the
24 curtailment provisions or agreements that APP has reached with
25 FPC are relevant. Those have been submitted with Mr. Dolan's

1 testimony and his augmented summary. The other terms of the
2 settlement agreement are not relevant to what is before the
3 Commission in this proceeding, and it would not be appropriate
4 for it to be admitted at this time.

5 MS. BROWN: Madam Chairman, could I just make one
6 mention, just by way of information?

7 CHAIRMAN CLARK: Okay.

8 MS. BROWN: Not to take a position on the ultimate
9 decision you have to make.

10 I just wanted you to be aware that this agreement
11 has not been submitted to the Commission for approval yet, and
12 it is probably in the nature of a modification to their
13 contract that would have to come to us for approval. I just
14 wanted to let you know the status of it.

15 CHAIRMAN CLARK: Mr. Presnell?

16 MR. PRESNELL: Chairman Clark, Commissioners, let me
17 respond in reverse order. Yes, it's our understanding this
18 will be filed with the Commission shortly in support of a
19 petition and the Commission will consider it in that context.

20 With respect to counsel for Auburndale's comments, I
21 submit that Auburndale has no standing to object. This
22 document has been made available. This is a dispute on this
23 issue between Florida Power and Orlando and Pasco. Auburndale
24 has taken no position on the issue and, therefore, has no
25 standing to object whatsoever.

1 With respect to the objections raised by Mr. Fama,
2 there are two essential elements with respect to the
3 admissibility of a document. The first is whether it is
4 authentic. There's no question but that this is an authentic
5 document.

6 Second the question is whether it is relevant.
7 There's no rule of evidence that says someone has to sponsor
8 the document.

9 The real issue and the only issue, I submit, is
10 whether it is relevant. It is relevant in part because Mr.
11 Dolan made it relevant when he mentioned in his testimony and
12 discussed during his testimony the Auburndale curtailment
13 agreement.

14 So Florida Power is the one who put in play the
15 relevancy of the Auburndale agreement. They cannot do so,
16 submit a summary and then object to the relevancy of the very
17 exhibit which they contend is relevant in the first place.

18 With respect to that issue, one of the key elements
19 of Florida Power's position, as I understand it, is that they
20 object to pricing energy on a basis that would, according to
21 their calculation, cause a subsidy to the ratepayers or cause
22 the ratepayers harm in some sort of subsidy.

23 This agreement shows that Florida Power last week
24 just entered into an agreement by which they have agreed to do
25 just that. And so it is certainly from a impeachment

1 standpoint relevant. It's relevant in support of Mr. Dolan's
2 own testimony when he put the issue at play during his direct
3 testimony. It is clearly relevant. It is obviously authentic
4 and it is certainly admissible.

5 CHAIRMAN CLARK: I'm going to allow the exhibit into
6 the record as Exhibit 18.

7 (Exhibit No. 18 marked for identification and
8 received in evidence.)

9 CHAIRMAN CLARK: Anything further?

10 MS. BROWN: That's our last witness?

11 CHAIRMAN CLARK: I believe so.

12 MS. BROWN: Oh. Well, let me get the CSAR.

13 CHAIRMAN CLARK: Did we catch you by surprise?

14 MS. BROWN: Well, we've just been going on for so
15 long.

16 CHAIRMAN CLARK: Let me ask this: Is there anything
17 else that we need to take up before we adjourn today?

18 MR. MCGLOTHLIN: One quick matter, during the
19 prehearing conference I requested that you allow parties 75
20 words per issue in the posthearing positions, rather than the
21 usual 50. You said you would reserve ruling on that.

22 CHAIRMAN CLARK: Uh-huh.

23 MS. BROWN: Chairman Clark, we're talking about
24 summary of positions to each of the issues?

25 CHAIRMAN CLARK: Yes, and I unders^{and} and it has to be

1 MS. BROWN: I really don't have all that much of
2 an opinion on it, though I do think that 50 words is plenty to
3 state the parties positions. If you can't say it in 50 words
4 -- what did you say?

5 CHAIRMAN CLARK: Commissioner Garcia has just
6 pointed out that you do have a opinion.

7 MR. MCGLOTHLIN: I make the request from the
8 standpoint of one who has counted sentences and compared words
9 and left out prepositions many times to get within the 50.

10 MS. BROWN: I'm sorry, I didn't hear that because I
11 had not quite finished what I wanted to say.

12 If you can't say it in 50 words, it probably is not
13 worth saying.

14 That being said, though, if you want to read 75
15 words, go ahead.

16 CHAIRMAN CLARK: Anything else? Anything else? Is
17 that the only thing we have to decide?

18 MS. BROWN: No, there is one other thing. And then
19 I need to read the CSAR.

20 The other thing is that in the Prehearing Order in
21 other matters, Orlando CoGen specifically requested that the
22 Commission vote on each of the subissues identified in the
23 Prehearing Order, particularly, I think, it's Issue 2 and
24 Issue 6.

25 MR. MCGLOTHLIN: The mitigation issues and the time

1 frame and nature of cost in the avoided cost comparison. I
2 don't recall the number of the issues, but they are set out
3 there.

4 MS. BROWN: As you said in the prehearing
5 conference, Chairman Clark, that's well within the sound
6 discretion of the Commission to decide whether they want to do
7 that or not. I recommend that it's not necessary.

8 CHAIRMAN CLARK: I think it's premature at this
9 point to make a decision on that. It seems to me when a Staff
10 makes a recommendation on this with regard to the matters in
11 this docket, and the Commission considers it, then the
12 Commission can decide whether they feel that they are
13 compelled to vote on each of the issues.

14 Commissioners, there were some issues or points
15 raised by the parties that I felt were subissues of a larger
16 issue, and it became apparent that the reason -- one of the
17 reasons they were being identified as an issue was a desire on
18 the part of some parties to have Commission vote policy on
19 some of these items.

20 I view that as something within our discretion to do
21 or not do as we find it necessary in a particular case. And I
22 pointed out to the parties that they have the option of using
23 findings of fact or conclusions of law if they feel that
24 there's a particular point on which we should rule one way or
25 the other. I still think that can be done at the time we

1 decide to take a vote. I mean we'll have all the matters
2 before us, and we will each have the opportunity to review the
3 record and the recommendation and decide what is necessary and
4 appropriate for us to draw conclusions on and make decisions
5 on.

6 MS. BROWN: Chairman Clark, the transcripts from
7 this proceeding are due May 23rd. The parties briefs are due
8 June 15th. Our recommendation will be filed the 6th of July,
9 for your consideration at your regular agenda the 18th of
10 July, standard order to be issued the 7th of August.

11 CHAIRMAN CLARK: Mr. McGlothlin, with respect to
12 your request of more than 50 words, I think the Commission has
13 adopted a rule calling for 50 words except where there is just
14 cause, and I don't find that the issues in this case or the
15 explanation of positions on this issue would require more than
16 50 words. I think if this does, then everything does, and for
17 that reason I would not allow more than 50 words. I would
18 follow the rule in this case.

19 MR. MCGLOTHLIN: All right.

20 MS. BROWN: There's nothing further that I'm aware
21 of.

22 CHAIRMAN CLARK: Thank you very much. This hearing
23 is adjourned.

24 (Thereupon, the hearing concluded at 1:25 p. m.)
25

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1 STATE OF FLORIDA)
2 :
3 COUNTY OF LEON)

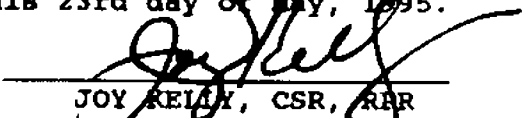
CERTIFICATE OF REPORTERS

3 We, JOY KELLY, CSR, RPR, Chief, Bureau of Reporting,
4 SYDNEY C. SILVA, CSR, RPR, and ROWENA NASH HACKNEY, Official
5 Commission Reporters,

6 DO HEREBY CERTIFY that the Hearing Docket No.
7 941101-EQ was heard by the Florida Public Service Commission
8 at the time and place herein stated; it is further

9 CERTIFIED that we stenographically reported the said
10 proceedings; that the same has been transcribed under our
11 direct supervision; and that this transcript, consisting of
12 1,026 pages, Volumes 1 through 7, constitutes a true
13 transcription of our notes of said proceedings.

DATED this 23rd day of May, 1995.

14 
15 _____
16 JOY KELLY, CSR, RPR
17 Chief, Bureau of Reporting,

18 
19 _____
20 SYDNEY C. SILVA, CSR, RPR

21 
22 _____
23 ROWENA NASH HACKNEY

24 STATE OF FLORIDA)
25 :
COUNTY OF LEON)

The foregoing certificate was acknowledged before me
this 23rd day of May, 1995, by JOY KELLY, SYDNEY C. SILVA and
ROWENA NASH HACKNEY, who are personally known to me.

26 
27 _____
28 PATRICIA A. CHURCH
29 Notary Public - State of Florida

