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BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

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|----------------------------------|---|------------------------|
| In The Matter of | : | DOCKET NO. 891345-EI |
| | : | |
| Application of GULF POWER | : | <u>HEARING</u> |
| COMPANY for an increase in rates | : | <u>SIXTH DAY</u> |
| and charges. | : | <u>EVENING SESSION</u> |

VOLUME - XIV

Pages 2030 through 2183

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JUN 18 1990

Florida Public Service Commission

FPSC Hearing Room 106
Fletcher Building
101 E. Gaines Street
Tallahassee, Florida 32399

Monday, June 18, 1990

Met pursuant to adjournment at 12:30 p.m.

BEFORE: COMMISSIONER MICHAEL MCK. WILSON, CHAIRMAN
COMMISSIONER GERALD L. GUNTER
COMMISSIONER THOMAS M. BEARD
COMMISSIONER BETTY EASLEY

APPEARANCES:

(As heretofore noted.)

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SYDNEY C. SILVA, CSR, RPR
Official Commission Reporters
and
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I N D E XWITNESSESName:Page No.

KATHRYN DYAL BROWN

| | |
|------------------------------------|------|
| Direct Examination by Mr. Vandiver | 2034 |
| Prefiled Testimony Inserted | 2036 |
| Cross Examination by Mr. Holland | 2042 |

ROBERT SCHEFFEL WRIGHT

| | |
|--|------|
| Direct Examination by Mr. Burgess | 2046 |
| Prefiled Testimony Inserted | 2050 |
| Cross Examination by Mr. McWhirter | 2099 |
| Cross Examination by Mr. Stone | 2131 |
| Cross Examination by Mr. Palecki | 2139 |
| Redirect Examination by Mr. Burgess | 2156 |
| Voir Dire Examination by Mr. McWhirter | 2169 |
| Continued Redirect Examination by Burgess | 2179 |

1 Index Continued:

EXHIBITS

2

Number:Identified Admitted

3

385 (Brown)

2035 2035

4

606 (Brown)

2043 2045

5

350 Through 353 (Wright)

2049

6

607 (Wright)

2164 2181

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EVENING SESSION

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(Transcript follows in sequence from Volume XIII.)

MR. STONE: Commissioner, that completes Gulf's direct case.

CHAIRMAN WILSON: All right.

MR. STONE: There has been some discussion about a change in the order of witnesses that I was supposed to check into during the last break, and I have some additional information to share with the Commission. I don't know if you want to discuss it now or --

CHAIRMAN WILSON: Let's go off the record for about five minutes, and we'll talk about what we're going to do.

(Discussion off the record)

CHAIRMAN WILSON: Back on the record.
Call your witness, Mr. Burgess.

MR. BURGESS: We call Mr. Wright.

MR. McWHIRTER: What about Ms. Brown, do you want to do her?

CHAIRMAN WILSON: Following Mr. Wright.

MR. VANDIVER: Very well. May I send Mr. Freeman home, then?

CHAIRMAN WILSON: Yes.

1 MR. MCWHIRTER: You can probably get Ms.
2 Brown done.

3 CHAIRMAN WILSON: If she's going to take 10
4 or 15 minutes, bring Ms. Brown down and take her, and
5 then she can go home and be done with her.

6 MR. VANDIVER: I'll run up and get her.

7 CHAIRMAN WILSON: We'll stand in informal
8 recess while you run up and get her.

9 (Brief recess.)

10 THE REPORTER: Was she sworn?

11 MR. HASKINS: No.

12

- - - - -

13

KATHRYN DYAL BROWN

14 appeared as a witness on behalf of the Staff of the
15 Florida Public Service Commission, and after being
16 first duly sworn, testified as follows:

17

DIRECT EXAMINATION

18 BY MR. VANDIVER:

19 Q Could you state your name and address for the
20 record, please?

21 A Kathryn Dyal Brown, Consumer Affairs
22 Division, 101 East Gaines Street, Tallahassee.

23 Q Did you cause to be filed six pages of
24 prefiled direct testimony in this case?

25 A Yes, I did.

1 Q Do you have any additions or corrections to
2 make to that testimony at this time?

3 A I have one correction. On Page 5, Line 20.
4 it should read "Gulf Power complaints increased by 33%
5 in 1989."

6 Q With that correction, if I were to ask you
7 the questions contained in your direct prefiled
8 testimony, would your answers be the same?

9 A Yes. They would.

10 MR. VANDIVER: Commissioner, I would like to
11 have Ms. Brown's testimony inserted into the record as
12 though read.

13 CHAIRMAN WILSON: Without objection it will
14 be so inserted into the record.

15 MR. VANDIVER: I believe her exhibits have
16 been previously stipulated into the record.

17 (Exhibit No. 385 stipulated into evidence.)
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- 1 Q. State your name and address.
- 2 A. Kathryn Dyal Brown, 101 E. Gaines Street, Tallahassee,
3 Florida 32399.
- 4 Q. Where are you employed?
- 5 A. I am employed in the Consumer Affairs Division of the Florida
6 Public Service Commission.
- 7 Q. Briefly describe your position and duties.
- 8 A. As a Senior Consumer Affairs Analyst, I receive and
9 investigate complaints against regulated utilities. I work
10 with utility companies and their customers to achieve
11 resolution of complaints. I provide explanation and
12 counseling on various matters related to utility company rates
13 and service and compliance with PSC rules and utility company
14 tariffs. I keep records of complaint activity filed against
15 utilities and prepare reports and charts outlining this
16 activity.
- 17 Q. Describe the nature of your testimony.
- 18 A. My testimony will set forth the complaint activity in the
19 Consumer Affairs Division involving Gulf Power Company.
20 Exhibits will show the number and type of complaints received,
21 the justification for the customer having contacted the
22 commission, and the complaint activity of Gulf Power Company
23 compared with other electric companies.
- 24 Q. What time period will your testimony encompass?
- 25 A. My testimony will focus on the complaint activity of calendar

1 years 1985-1989. The months of January, February and March
2 1990 will also be included.

3 Q. Describe any preliminary screening that may take place before
4 a complaint is logged to be investigated.

5 A. A complaint is not logged unless the analyst receiving the
6 contact determines that the matter appears to be within the
7 jurisdiction of the commission and that there is reason to
8 believe that the complaint may be justified. If it appears
9 there is nothing the commission can do to help, or the
10 complaint is clearly not justified, the citizen is so advised.

11 Q. What procedure is followed when a complaint is logged?

12 A. Information is entered on a consumer request form and the
13 company is requested to review the complaint and respond.
14 When the response has been received, both the complaint and
15 the response are reviewed by Consumer Affairs personnel to
16 determine compliance with commission rules and company tariffs
17 and to determine what other action, if any, needs to be taken.
18 Before a complaint is closed, the analyst handling the case
19 customarily contacts the complainant to verify his
20 satisfaction or discuss the action taken and the applicable
21 rules and tariffs.

22 Q. How many complaints were logged against Gulf Power Company
23 during 1989?

24 A. Records show that 76 complaints (.308 per 1000 customers) were
25 logged against Gulf Power Company during 1989.

- 1 Q. How do these figures compare with complaint activity for 1988?
- 2 A. Complaints were up 33% from 1988. There were 76 complaints
3 logged against the company during 1989, compared to 57 during
4 1988.
- 5 Q. How do these figures compare with complaint activity figures
6 for the preceding calendar years?
- 7 A. This comparison is shown in Attachment I. Attachment I is a
8 graph of Gulf Power's complaint activity for the past 10
9 years. Listed below the graph are the actual number of
10 complaints received during those years and the number of
11 complaints received per 1000 customers.
- 12 Q. Do Consumer Affairs records show what part of Gulf Power's
13 service area had the most complaints?
- 14 A. The majority of the company's complaints originated in
15 Escambia county, where complaints more than doubled from 1988
16 figures. During 1989 customers in Escambia county logged 33
17 complaints followed by Santa Rosa (18), Bay (10), Okaloosa
18 (12), and Washington (3).
- 19 Q. What types of complaints were received against Gulf Power
20 Company during 1989?
- 21 A. During 1989, Consumer Affairs received 45 complaints about
22 billing and 31 about service related matters.
- 23 Q. Are complaints classified more specifically?
- 24 A. Yes. After an analyst takes a complaint he or she determines
25 whether the complaint is related to a service or billing

1 | problem. Then the analyst chooses one of approximately 30
2 | more specific classification categories to further identify
3 | the complaint.

4 | Q. What were the major types of complaints received against Gulf
5 | Power during 1989?

6 | A. The two major complaint categories were high bills and delayed
7 | new connections. Although complaints were up slightly in a
8 | number of different categories, no one particular type of
9 | complaint contributed to the increase.

10 | Q. Have you made a more specific study on the type of problems
11 | complained about?

12 | A. Yes. Attachment IIA sets forth in more detail the various
13 | types of complaints which were received and closed during
14 | 1989, and the justification for each type. Attachment IIB is
15 | a chart illustrating the major types of complaints received
16 | against Gulf Power.

17 | Q. How is justification for a complaint determined?

18 | A. When the complaint analyst reviews the company's report and
19 | closes the complaint, the analyst determines whether the
20 | complaint was justified, not justified or had some
21 | justification. The determination is noted on the complaint
22 | file. In each case, determination is based on commission
23 | rules, company tariffs, and/or common sense guidelines. Every
24 | effort is made to be as objective as possible.

25 | Q. What was the justification for the Gulf Power Company

- 1 | complaints closed during 1989?
- 2 | A. During 1989, 66 complaints against the company were received
- 3 | and closed. Of these, 14 were found to be justified, 34 were
- 4 | not justified, and 18 were found to have some justification.
- 5 | These figures are shown in Attachment III.
- 6 | Q. Have you compared the justification for the complaints closed
- 7 | to previous periods?
- 8 | A. Yes. These figures are also in Attachment III.
- 9 | Q. Have you compared the complaint activity of Gulf Power Company
- 10 | with that logged against other companies?
- 11 | A. Yes. Attachments IVA and IVB compare all electric companies
- 12 | for the calendar years 1985 through 1989 and include the
- 13 | number and type of complaints logged, the percentage of
- 14 | increase from the previous year, a breakdown of the
- 15 | justification, the number of complaints and justified
- 16 | complaints per 1000 customers and industry totals.
- 17 | Q. How does Gulf Power Company compare to the other electric
- 18 | utilities in the areas you have analyzed?
- 19 | A. After a two year downward trend in complaint activity, Gulf
- 20 | Power complaints increased by 33 percent in ¹⁹⁸⁹~~1988~~. The
- 21 | percentage of logged complaints found to be justified
- 22 | increased from 13 percent in 1988 to 21 percent in 1989.
- 23 | Fifty-two percent of Gulf Power complaints were found to have
- 24 | no justification. After three years of maintaining the lowest
- 25 | number of complaints and justified complaints per 1000

1 customers, Gulf Power had the second highest number of
2 complaints and justified complaints of any of the four major
3 electric utilities during 1989. There were .308 complaints
4 per 1000 customers, and .057 justified complaints per 1000
5 customers as shown on Attachment IVA and IVB.

6 Q. Have you compiled data on the number and type of complaints
7 received against Gulf Power in 1990?

8 A. Yes, Attachment V shows the number, major type and
9 justification of complaints received against Gulf Power and
10 all other electric utilities during the first quarter of 1990.

11 Q. What observations have you made from the 1990 complaint data?

12 A. For the first three months of 1990 Gulf Power had the fewest
13 complaints per 1000 customers of the five regulated electric
14 companies. Of the complaints closed in January, February and
15 March of 1990 only Florida Power Corporation had fewer
16 justified complaints per 1000 customers than Gulf Power
17 Company. Gulf Power is the only company that had a drop in
18 the total number of complaints received during 1990 in
19 comparison with the same three months of 1989.

20 Q. Does this conclude your testimony?

21 A. Yes.

(End of Prefiled Direct Testimony)

1 Q (By Mr. Vandiver) Ms. Brown, could you
2 provide us with a brief summary of your testimony,
3 please?

4 A Yes. My testimony describes the complaint
5 activity in the Consumer Affairs Division involving
6 Gulf Power Company. It compares Gulf Power Company's
7 complaint activity with that of the other regulated
8 electric companies. The number of complaints received
9 against Gulf Power Company decreased in 1987 and 1988,
10 but increased by 33% in 1989. During the first three
11 months of 1990, the number of complaints received
12 dropped by 13%, while complaints for the electric
13 industry as a whole showed a 26% increase.

14 The number of complaints received per 1,000
15 customers was less than the industry average in each of
16 the five years studied except for 1989. The number of
17 justified complaints received per 1,000 customers was
18 below the industry average for each of the other years.

19 Q Does that complete your summary?

20 A Yes.

21 MR. VANDIVER: The witness is tendered for
22 cross examination.

23 CROSS EXAMINATION

24 BY MR. HOLLAND:

25 Q Ms. Brown, just a few brief questions. Do

1 you have with you the complaint data for the month of
2 April 1990?

3 A Yes, I do. I have it through May.

4 Q Through May? Can you give us the updated
5 figures?

6 A I can give one to everyone, if you would
7 like.

8 Q Okay. That might facilitate. (Document
9 distributed)

10 CHAIRMAN WILSON: Witnesses shouldn't have to
11 hand out their own exhibits. Witnesses shouldn't do
12 this.

13 WITNESS BROWN: Those are the totals for
14 January through May 1990.

15 CHAIRMAN WILSON: Would you like to mark this
16 as an exhibit?

17 MR. HOLLAND: Could I have just a second?
18 (Pause)

19 Commissioners, I think we should go ahead and
20 mark it.

21 CHAIRMAN WILSON: That would be Exhibit No.
22 606?

23 MR. PRUITT: That's correct.

24 (Exhibit No. 606 marked for identification)

25 COMMISSIONER GUNTER: Can I ask you one

1 question, just looking real quick?

2 WITNESS BROWN: Uh-huh.

3 COMMISSIONER GUNTER: I don't understand
4 Florida Public Utilities. They had one service, one
5 billing, and there's two yes, and two no.

6 WITNESS BROWN: Okay. That's because -- that
7 will be confusing on all the charts. That's a good
8 question. It's because we received only two complaints
9 from January to May, but we closed more than that, we
10 could have closed some from previous months.

11 COMMISSIONER GUNTER: Got you.

12 WITNESS BROWN: And that will happen on a lot
13 of the figures.

14 Q (By Mr. Holland) Ms. Brown, let me --
15 Commissioner, may I proceed?

16 COMMISSIONER GUNTER: Go ahead.

17 Q (By Mr. Holland) Just to make sure that I
18 understand Exhibit 606, and I'm looking at the bottom
19 set of numbers, in terms of the total number of
20 complaints received year-to-date, Gulf Power Company is
21 the lowest, is that correct?

22 A Of the majors and not counting Florida Public
23 Utilities.

24 Q Yes. Did you say yes?

25 A Yes. I did.

1 Q I'm sorry. The percent change is the lowest?

2 A That's correct.

3 Q The complaints per 1,000 customers, I
4 believe, is the lowest?

5 A For 1990, yes.

6 Q Yes, year-to-date. And the justified per
7 1,000 customers, I believe, would be second to Florida
8 Power, if I'm reading this correctly?

9 A You're correct.

10 MR. HOLLAND: That's all I've got.

11 MR. BURGESS: No questions.

12 MR. McWHIRTER: No questions.

13 MAJOR ENDERS: No questions.

14 CHAIRMAN WILSON: Redirect?

15 MR. VANDIVER: None.

16 CHAIRMAN WILSON: Thank you very much, you
17 may be excused.

18 (Witness Brown excused.)

19 CHAIRMAN WILSON: Move admission of Exhibit
20 606? Without objection, admitted into evidence.

21 (Exhibit No. 606 received in evidence.)

22 CHAIRMAN WILSON: Call your next witness.

23 MR. VANDIVER: Mr. Wright.

24 CHAIRMAN WILSON: We can see what he's been
25 doing all day. (Pause)

1 MR. BURGESS: Would you give us your name and
2 business address?

3 WITNESS WRIGHT: Mr. Burgess, may it please
4 the Commission, I haven't been sworn. Do you want to
5 do that first?

6 MR. BURGESS: Yes.

7 ROBERT SCHEFFEL WRIGHT
8 was called as a witness on behalf of the Citizens of
9 the State of Florida and, having been first duly sworn,
10 testified as follows:

11 DIRECT EXAMINATION

12 BY MR. BURGESS:

13 Q Now that we know that you're going to tell
14 the truth about it, would you give us your name and
15 business address?

16 A Yes, my name is Robert Scheffel Wright. My
17 business address is 501-D East Tennessee Street,
18 Tallahassee, Florida, 32308.

19 Q Did you prepare prefiled testimony in this
20 docket, file it with the Commission?

21 A Yes, sir, I did.

22 Q Do you have any corrections or amendments to
23 make to that direct prefiled testimony?

24 A Yes, sir, I have a few minor corrections. I
25 believe the reporter has been furnished a complete

1 clean copy reflecting these corrections.

2 Q Yes, sir.

3 A At Page 8, Line 14, after the word "Gulf's,"
4 insert the word "large."

5 At Page 30, Line 4 --

6 Q 30.

7 A Correct. Page 30, Line 4, after the word
8 "other," insert the word "similar."

9 At Page 34, Line 7, the third word should be
10 "affect," a-f-f-e-c-t, not "effect."

11 At Page 40, Line 13, strike the phrase, "all
12 of its demand-metered," and insert the word "these."

13 CHAIRMAN WILSON: What line was that one?

14 WITNESS WRIGHT: Line 13 on Page 40.

15 CHAIRMAN WILSON: And strike what?

16 WITNESS WRIGHT: Strike the phrase, "all of
17 its demand-metered," and insert the word "these." So
18 it reads, "charge for these rate classes."

19 At Page 43, Line 6, following the word "its,"
20 insert the word "large."

21 Final correction is on Exhibit RSW-1, which
22 is the next page immediately following Page 43, in the
23 diagram in the prefiled testimony, there is an arrow
24 drawn from the box labeled "Production" under the
25 "Functionalization" heading to the box labeled

1 "Customer" under the "Classification" heading. That
2 arrow should not be there. I thought that I had gotten
3 it out earlier, but when I went back and looked, I saw
4 that it was there. So in the clean copy, the arrow
5 from "Production" to "Customer" is whited out.

6 Q Other than those changes, Mr. Wright, if you
7 were asked the same questions posed in your prefiled
8 testimony, would your testimony today be substantially
9 the same?

10 A Yes, sir.

11 MR. BURGESS: Commissioner, we have produced
12 for the court reporter a clean copy that reflects these
13 changes, and we would ask that Mr. Wright's prefiled
14 testimony be entered into the record as though read.

15 CHAIRMAN WILSON: Without objection, it will
16 be so inserted into the record.

17 MR. BURGESS: And Mr. Wright, I believe that
18 you also have attached a number of exhibits which have
19 been identified with exhibit numbers. I'm not sure
20 what they are.

21 WITNESS WRIGHT: Was that a request to
22 describe them, Mr. Burgess?

23 MR. BURGESS: Beg your pardon?

24 WITNESS WRIGHT: Was that a request to
25 describe them briefly?

1 MR. BURGESS: No, no.

2 CHAIRMAN WILSON: He's just stalling for time
3 while he tries to identify the exhibit numbers.

4 MR. BURGESS: I'm afraid my copy in the pre
5 prehearing doesn't have that, so I'm looking for some
6 help in identifying the four exhibits.

7 CHAIRMAN WILSON: Do you know what the
8 numbers assigned to those exhibits are? (Pause)

9 MR. VANDIVER: 350 through 353, I believe,
10 Commissioners.

11 MR. BURGESS: Thank you, Rob.

12 (Exhibit Nos. 350 through 353 previously
13 stipulated into the record.)

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
DOCKET NO. 891345-EI, APPLICATION OF GULF POWER COMPANY
FOR A RATE INCREASE

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 Q: Please state your name, occupation and business address.

2

3 A: My full name is Robert Scheffel Wright. I am employed
4 as Vice President and Principal Consultant with the
5 consulting firm, West Park Group, Inc. The firm's
6 business address is 501 East Tennessee Street, Suite D,
7 Tallahassee, Florida 32308. I am also employed as
8 Resident Economist and Special Consultant on regulatory
9 and economic matters with the law firm of Wiggins &
10 Villacorta, Post Office Drawer 1657, Tallahassee,
11 Florida 32302.

12

13 Q: Please describe your educational background.

14

15 A: I received a B.A. degree with High Honors in Economics
16 from the University of Florida in 1971. I received a
17 M.A. degree in Economics from Duke University in 1973,
18 upon passing my preliminary examinations for admission
19 to candidacy for the Ph.D. degree. My examination
20 fields were Environmental Economics; Industrial
21 Organization, Regulatory, and Antitrust Economics; and
22 Public Finance. I have also attended numerous seminars

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 and training sessions on electric utility regulation,
2 cogeneration, and other regulatory subjects while I was
3 employed by the Florida Public Service Commission. In
4 1988, as one of the instructors of the PSC's Public
5 Utility Regulatory Seminar presented for the Commission
6 staff, I gave a presentation on Current Issues in
7 Energy.

8
9 Q: Please describe your employment experience.

10
11 A: Upon leaving Duke in 1974, I accepted a position as
12 Assistant Professor of Economics at Saint Olaf College
13 in Northfield, Minnesota, where I taught various courses
14 in Economics, including Industrial Organization,
15 Environmental Economics, and Principles of Economics
16 from 1974 through 1976. I was employed as an
17 economist/program analyst by the Minnesota Legislative
18 Auditor's Office from 1976 until 1979, and as an
19 economist/analyst by the Kentucky General Assembly from
20 1979 to 1980. In December 1980, I accepted an analyst
21 position with the Florida Governor's Energy Office,
22 where my responsibilities included research, analysis,
23 and statewide energy use forecasting. I worked in the
24 Governor's Energy Office until March 1982, when I joined

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 the Research Division of the Florida Public Service
2 Commission.

3
4 In the Research Division, most of my work related to
5 electric utilities. I wrote several economic impact
6 statements for proposed rules affecting electric
7 utilities, and I participated fairly extensively in
8 framing and drafting some of those rules. I was also
9 the project manager and principal author of three
10 substantial reports, Analyzing Future Values: Present
11 Value Analysis, Benefit-Cost Analysis, and Inflation
12 Adjustment Techniques; Rate Case Procedures at the
13 Florida Public Service Commission; and Minimum Appliance
14 Efficiency Standards for Florida.

15
16 I transferred to the Bureau of Electric Rates in the
17 Commission's Electric and Gas Division in November 1984.
18 As an Economic Analyst in the Rate Bureau from then
19 until January 1988, my main assignments were (1) the
20 Commission's generic cost of service docket; (2) its
21 generic non-firm rates docket, Docket No. 830512-EU; (3)
22 Tampa Electric Company's 1985 general rate case, Docket
23 No. 850050-EI, in which I served as the staff's witness
24 on cost of service and some rate design issues; (4) the
25 self-service wheeling petition of W.R. Grace Company v.

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 Tampa Electric Company, Docket No. 861180-EU; and (5)
2 the Commission's generic docket on appropriate rates for
3 standby and supplemental service for cogenerators,
4 Docket No. 850673-EU. I also processed tariff filings
5 by investor-owned, municipal, and cooperative utilities,
6 and I authored and defended numerous recommendations on
7 tariff filings at PSC agenda conferences.

8
9 In January 1988, I was promoted to Chief of the Bureau
10 of Electric Rates, where my responsibilities were to
11 supervise, recruit, train, and review the work of a
12 professional staff of five persons besides myself.

13
14 During 1987 and 1988, I served on the NARUC Task Force
15 charged with re-writing the NARUC Electric Utility Cost
16 Allocation Manual. I authored the first and second
17 drafts of the chapter on Embedded Production Cost
18 Allocation Methods before I resigned from the Commission
19 staff. When I left, my chapter had been through a
20 thorough review by the other members of the Task Force
21 and had been accepted by them.

22
23 Q: What was your next employment?
24

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 A: I joined the law firm that is now Wiggins & Villacorta
2 in November 1988, and we incorporated West Park Group in
3 1989. My responsibilities to law firm clients have
4 included providing legal and case strategy services to
5 cogenerators and cogeneration developers, a utility
6 seeking to establish joint ownership of a transmission
7 line through its territory, different parties with
8 specific complaints regarding their electric service,
9 and two water utilities. As a certified Class B
10 Practitioner, I have made appearances on behalf of
11 clients before this Commission.

12

13 My consulting engagements include (1) preparing and
14 filing expert testimony on behalf of the City of
15 Tallahassee, Florida, in a territorial dispute
16 proceeding before the PSC, Docket Nos. 881602-EU and
17 890326-EU; (2) preparing and filing expert testimony on
18 behalf of the Citizens of the State of Florida in Docket
19 No. 881167-EU, the predecessor to this case; (3)
20 providing advice on standby rates and cost of service
21 issues to an investor-owned utility in New England; (4)
22 providing advice and consulting services to a
23 cogeneration developer participating in the Commission's
24 docket to revise its cogeneration rules, Docket No.
25 890149-EU; (5) preparing testimony and appearing as an

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 expert witness on behalf of the People of the State of
2 Michigan, through their Attorney General, in Consumers
3 Power Company's 1989 Power Supply Cost Recovery case,
4 Case No. U-8866R; and (6) a contract research project on
5 energy efficiency standards for manufactured housing and
6 home appliances, for the Governor's Energy Office of
7 Florida.

8
9 Q: Have you previously testified in proceedings before the
10 Florida Public Service Commission?

11
12 A: Yes. I was a witness on behalf of the Commission Staff
13 in Tampa Electric Company's 1985 general rate case,
14 Docket No. 850050-EI; in the rulemaking hearing on non-
15 firm electric service and rates, Docket No. 830612-EI;
16 and in the self-service wheeling petition of W. R. Grace
17 Company, Docket No. 861180-EU. I submitted testimony on
18 behalf of the City of Tallahassee in its 1989
19 territorial dispute with Talquin Electric Cooperative,
20 Docket Nos. 881602-EU and 890326-EU, but that case was
21 settled without hearings. Finally, I submitted
22 testimony in the predecessor case to this proceeding,
23 Docket No. 881167-EU, but the Company withdrew its
24 petition for rate relief prior to the hearing.

25

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 Q: Have you testified in proceedings before other states'
2 utility regulatory commissions?

3

4 A: Yes. I testified on behalf of the People of the State
5 of Michigan, through their Attorney General, in
6 Consumers Power Company's 1989 Power Supply Cost
7 Recovery reconciliation proceeding, Case No. U-8866R.

8

9 Q: What is the purpose of your testimony in this
10 proceeding?

11

12 A: I am testifying on behalf of the Citizens of the State
13 of Florida to recommend that the Public Service
14 Commission adopt the Equivalent Peaker Cost (EPC or
15 Equivalent Peaker) method as its primary guide to cost
16 of service allocation and rate design for Gulf Power
17 Company's retail customer classes. I will also testify
18 regarding proper ratemaking for Gulf's General Service
19 rate class, proper time of use rate design, and the
20 minimum bill provision proposed by the Company for its
21 LP/LPT and PX/PXT rate classes.

22

23 Q: Please briefly summarize your testimony.

24

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 A: My testimony will demonstrate that, from its foundations
2 in utility generation planning practices, the Equivalent
3 Peaker cost allocation method tracks the "cost-causer-
4 pays" principle more closely than any other. It results
5 in price signals that more closely reflect cost
6 causation, and thus it is more fair than other methods.
7 Therefore it should be adopted by the Commission.

8
9 While I support appropriately designed "ratcheted"
10 demand charges for certain cost elements, particularly
11 local distribution plant and operations costs, I would
12 urge the Commission to reject the Company's proposed
13 minimum bill provision and instead to implement for
14 Gulf's large demand-metered classes an appropriate local
15 facilities demand charge calculated in the same way as
16 that prescribed by this Commission for standby service
17 in Docket No. 850673-EU, Generic Investigation of
18 Standby Rates. The Company's proposal is not
19 appropriately designed in that it may allow non-fuel
20 energy charges and fuel charges to count towards the
21 minimum bill amount based on the customer's
22 contractually specified amount of local distribution
23 capacity. If, as it appears, the provision would allow
24 fuel and non-fuel energy charges to count toward the
25 minimum bill, it sends improper price signals in that

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 for some range of consumption, the incremental or
2 marginal cost to the customer of additional energy
3 consumption is zero. This is anti-conservation and
4 should not be permitted.

5
6 The Commission should require Gulf to set its General
7 Service (GS, non-demand-metered) rates equal to its
8 Residential Service (RS) rates. Finally, I support
9 time-of-use rates for all customers.

10
11 Q: What is the purpose of cost of service studies?

12
13 A: Cost of service studies analyze the costs of providing
14 electric service to the various classes of customers.
15 They are in turn used by utilities and regulators to
16 establish rates. Fair, just, and reasonable rates are
17 those that track cost most closely. The goal of cost of
18 service studies should thus be to reflect cost-
19 causation, that is, the way in which the utility incurs
20 costs or the specific considerations that utilities make
21 in their internal decision-making processes.

22
23 Exhibit 350 (RSW-1) is a flow chart that shows the
24 steps in cost allocation and ratemaking.

25

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 Q: How closely should regulators follow cost of service
2 studies in setting rates?

3
4 A: In the long run, I believe that rates should be set
5 equal to unit costs as indicated by cost studies. In
6 the short run, rates should be set as close to unit
7 costs as is practically possible. For reasons of rate
8 continuity or stability, or to avoid rate shock on
9 specific groups, utilities and regulators may find it
10 desirable in some cases to move toward unit costs
11 gradually.

12
13 To the degree that rates are not set at costs, subsidies
14 exist. They may be inter-class, if classes' rates
15 generate more or less than their allocated revenue
16 responsibility, or they may be intra-class, as occurs
17 when demand charges recover energy-related costs, or
18 vice versa. Subsidies should be avoided to the maximum
19 extent possible. In the long run, they should be
20 avoided altogether.

21
22 Q: Please describe the Equivalent Peaker Cost allocation
23 method.

24

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 A: This method differs from most other cost of service
2 methods in its treatment of production plant costs. The
3 Equivalent Peaker method classifies all of the utility's
4 actual peaking units as demand-related and classifies,
5 analytically, the utility's intermediate and baseload
6 units into demand-related and energy-related components
7 as follows: the estimated cost of peaking units with
8 capacity equivalent to that of the utility's
9 intermediate and baseload units is classified as
10 demand-related and allocated on the basis of the
11 classes' contributions to the utility's peak demands,
12 the twelve monthly coincident peak demands in Gulf's
13 case. The additional investment in those plants above
14 the cost of equivalent peaking capacity is classified as
15 energy-related and allocated on the basis of the
16 classes' proportionate shares of Gulf's retail energy
17 consumption, measured at the generation level.

18

19 Q: Please explain the rationale that underlies and supports
20 this cost of service methodology.

21

22 A: The Equivalent Peaker method recognizes that electric
23 utilities build different types of generating plants for
24 different reasons. Peaking units are built to serve a
25 given level of KW demand when that demand is not

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 expected to be of long duration. Baseload units are
2 usually built to serve a given level of KW demand when
3 there is also a substantial KWH energy load to be
4 served. In some cases, baseload units are constructed
5 to obtain energy cost savings even when the utility has
6 adequate capacity to meet its peak demands.

7
8 More specifically, the EPC method tracks utility
9 generation expansion practices, which generally consist
10 of two phases. First, the utility identifies a need for
11 additional capacity, and the timing of that need, by
12 analyzing its reliability criteria. These may include
13 reserve margin, loss of load probability (LOLP), loss of
14 load hours (LOLH), or expected unserved energy (EUE).
15 The utility will plan to add capacity when its projected
16 peak demands cause these criteria to violate established
17 critical values. Second, after a need for additional
18 capacity is identified, an economic analysis is done to
19 determine the least-cost generation expansion plan,
20 i.e., what type of capacity to add, based on the
21 utility's projected energy loads.

22
23 The EPC method recognizes that the additional production
24 plant costs incurred by electric utilities above the
25 cost of peaking units -- e.g., the additional cost of a

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 baseload coal unit above the cost of gas or oil fired
2 combustion turbines -- are incurred because the KWH
3 energy loads of the utility's customers are sufficient
4 to justify the additional initial capital expense.
5

6 In other words, if the utility were building generating
7 plant only to serve a brief peak demand, it would build
8 or buy the least expensive peaking units available.
9 However, since the utility has to serve a significant
10 energy or KWH load, it is economically sound for it to
11 build baseload generating units that use relatively
12 inexpensive fuel, such as coal. The fuel cost savings
13 realized because the plant serves a broad energy load
14 are sufficient to justify the additional plant costs.
15 Thus, these additional plant costs are properly
16 classified as energy-related and allocated to rate
17 classes according to their proportionate shares of KWH
18 consumption.
19

20 Only the cost of equivalent peaking capacity, plus the
21 cost of the utility's actual peaking units, is properly
22 classified as demand-related. These demand-related
23 production plant costs are allocated to rate classes
24 based on their contributions to the utility's peak
25 demands.

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1

2 Q: Please explain the difference between the Equivalent
3 Peaker method and the 12 CP and 1/13th Weighted Average
4 Demand (12 CP and 1/13th) method.

5

6 A: The two methods differ in their treatment of production
7 plant costs. The Equivalent Peaker method classifies as
8 demand-related only the estimated cost to build peaking
9 units with capacity equivalent to that of the utility's
10 total generating plant. These demand-related costs are
11 allocated in proportion to the classes' proportionate
12 shares of system coincident peak demands, the twelve
13 monthly peaks in Gulf's case. Recognizing and tracking
14 the prudent system planning practice of determining,
15 based on energy loads to be served, what type of unit is
16 most economic to build after a need for additional
17 capacity to satisfy reliability criteria is
18 established, the EPC method classifies the remaining
19 costs above the estimated cost of equivalent peaking
20 capacity as energy-related. These energy-related costs
21 are allocated to the classes according to their
22 proportions of total jurisdictional energy consumption
23 at the generation level, excluding plant and company
24 use.

25

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 The 12 CP and 1/13th method, on the other hand,
2 classifies 92.31 percent (12/13ths) of production plant
3 as demand-related and 7.69 percent (1/13th) as energy-
4 related. This is a judgmental approach that attempts to
5 recognize that both peak demands and energy requirements
6 are important in determining total production plant
7 costs. In my opinion, the EPC method is clearly
8 superior to the judgmental 12 CP and 1/13th method
9 because of its analytical approach to measuring the cost
10 effects of both peak demands and energy requirements.

11
12 **Q: How is this different from the cost allocation methods**
13 **that have historically been used by the Florida Public**
14 **Service Commission?**

15
16 **A: Basically, the EPC method classifies production plant**
17 **costs into demand-related and energy-related components**
18 **using an analytical approach grounded in the system**
19 **planning considerations that drive the utility's plant**
20 **investment decisions, as compared to the various**
21 **judgmental approaches followed by the PSC in most cases**
22 **in the past. As described above, the first step is to**
23 **estimate the cost of building peaking units of**
24 **equivalent generating capacity to that of the utility's**
25 **intermediate and baseload units. This estimated cost**

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 of peaking units is classified as demand-related and
2 allocated according to the classes' proportionate shares
3 of significant peak demands. The additional amount
4 invested in the utility's generating plants is
5 classified as energy-related and allocated according to
6 the classes' proportionate shares of energy consumption,
7 measured at the generation level.

8
9 The Public Service Commission has historically used a
10 variety of cost allocation methodologies, ranging from
11 heavily demand-weighted methods all the way to full
12 implementation of the Equivalent Peaker method. To the
13 best of my knowledge, through most of the 1970s, the
14 Commission relied on cost allocation studies using a
15 peak-and-average demand approach; these studies
16 allocated production plant costs to the rate classes
17 according to their contributions to the utility's
18 jurisdictional peak demand and jurisdictional average
19 demand. These methods generally resulted in allocations
20 weighted about two-thirds to peak demand responsibility
21 and one-third to energy or average demand. (Because
22 average demand is simply total energy consumption
23 divided by the number of hours in the year, the
24 allocation factors calculated using either class average
25 demand or class energy consumption are identical.)

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1

2 In the late 1970s and early 1980s, the Commission
3 generally used a more heavily demand-weighted method,
4 the 12 CP and 1/13th weighted average demand method. By
5 this method, 12/13ths (92.31 percent) of production
6 plant costs were classified as demand-related and
7 allocated to rate classes according to their percentage
8 shares of the utility's twelve monthly jurisdictional
9 peak demands. The remaining 1/13th (7.69 percent) was
10 classified as energy-related and allocated to the
11 classes according to their percentage shares of
12 jurisdictional energy consumption.

13

14 By 1983, the Commission had begun to re-think its move
15 toward demand-weighted cost allocation methods. At
16 least three of the state's four large investor-owned
17 utilities also proposed and supported cost of service
18 methods that incorporated heavier weighting of class
19 energy consumption in allocating production plant costs.
20 In the so-called "St. Lucie II Mini-Rate Case" of
21 Florida Power & Light Company, the second phase of
22 Docket No. 820097-EI, the Commission classified the
23 fixed revenue requirements of FPL's newest nuclear
24 generating unit into an energy-related component, equal
25 to the annual fuel expense savings that the plant was

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 projected to provide, and a demand-related component
2 equal to the balance. By this approach, \$179,000,000
3 (75 percent) of the plant's revenue requirements was
4 classified as energy-related and allocated to the
5 classes on the basis of their energy consumption, while
6 the remaining \$58,816,000 (25 percent) was allocated so
7 as to move the classes closer to parity in rate of
8 return. In FPL's next (and most recent) general rate
9 case, Docket No. 830465-EI, the Commission again
10 addressed the energy-relatedness of the Company's
11 investment in St. Lucie II. This time, the Commission
12 classified St. Lucie II by an equivalent peaker
13 approach, with the result that 78 percent of the plant
14 was classified as energy-related and 22 percent was
15 classified as demand-related. In its Order No. 13537,
16 the Commission went on to note its intent to consider
17 classifying FPL's three other nuclear generating units
18 by the same equivalent peaker approach in future rate
19 cases. Order No. 13537 at 60.

20
21 In Tampa Electric Company's 1983 general rate case,
22 Docket No. 830012-EI, the Company proposed a cost method
23 that classified a significant portion of the Company's
24 CWIP investment in its Big Bend 4 baseload generating
25 unit, then under construction, as energy-related. The

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 Commission adopted this proposal, with the overall
2 result that significantly more of the Company's
3 production plant revenue requirements was classified as
4 energy-related and allocated to the classes on the basis
5 of their energy use than would have been so allocated
6 using the 12 CP and 1/13th approach.

7
8 In Tampa Electric's 1985 general rate case, Docket No.
9 850050-EI, several cost studies were put on the table:
10 (1) a pure peak demand (7 CP) study sponsored by
11 industrial intervenors, which would have allocated 100
12 percent of production plant costs on the basis of the
13 classes' peak demand responsibility; (2) the Company's
14 study, which utilized a 12 CP and 1/13th approach with
15 certain pollution control and fuel handling equipment
16 classified as energy-related, resulting in an overall
17 classification of about 34 percent of production plant
18 as energy-related and 66 percent demand-related; (3) an
19 EPC study, which classified about 75 percent of
20 production plant as energy-related and 25 percent as
21 demand-related; and (4) a production stacking method
22 that classified about 79 percent as energy-related and
23 21 percent as demand-related. The Commission adopted
24 the Equivalent Peaker Cost study as its primary guide to
25 class cost allocation and rate design.

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1

2 Q: Are you sponsoring any cost of service studies into
3 evidence in this case?

4

5 A: Yes, at this time I am sponsoring into evidence an EPC
6 study prepared by Gulf's Witness Michael T. O'Sheasy in
7 response to Interrogatory No. 1, Staff's First Set, and
8 a so-called "Refined" EPC study prepared by Mr. O'Sheasy
9 in response to Interrogatory No. 2, Staff's First Set.
10 These are identified as one document, Exhibit 351
11 (RSW-2). Additionally, I intend to sponsor enhanced,
12 revised versions of these two studies into evidence as
13 soon as possible. The revisions, which improve the
14 studies but which should not produce dramatic changes in
15 their results, are addressed later in my testimony.

16

17 Q: Please describe the results of the Basic Equivalent
18 Peaker Cost method for Gulf Power Company, and compare
19 them to the 12 CP and 1/13th Weighted Average Demand
20 method shown in MFR Schedule E-1.

21

22 A: Exhibit 352 (RSW-3), consisting of 4 pages, presents
23 a comparison of net operating income and class rates of
24 return at present rates for the 12 CP and 1/13th
25 Weighted Average Demand method, the basic EPC method,

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 and the Refined Equivalent Peaker Cost method, which is
2 discussed later in my testimony. To summarize briefly,
3 this side-by-side comparison shows that the 12 CP and
4 1/13th method allocates more costs to the RS, GS, and SS
5 rate classes, as reflected by their lower rates of
6 return and lower NOI at present rates, and less to the
7 other classes than the Basic EPC method. For the RS,
8 GS, PXT, and OS classes, the Refined EPC yields results
9 between those of the 12 CP and 1/13th method and the
10 Basic EPC method. However, the GSD class is allocated
11 more cost responsibility, reflected by less NOI and a
12 lower rate of return, using the Refined EPC than under
13 either of the other studies, while the LP/LPT, OS-III,
14 and SS classes are allocated less cost responsibility by
15 the Refined EPC study than under either of the other
16 studies. While these results are somewhat counter-
17 intuitive, they appear to result from different
18 relationships between demands in the 12 monthly
19 coincident peaks and those in the company's 1,430
20 highest-demand hours.

21
22 **Q: How would fuel expense be treated in ratemaking using**
23 **these cost of service principles?**
24

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 A: The EPC method does not create a need to alter the
2 Commission's current average-cost-based ratemaking
3 treatment of fuel expense.

4

5 Q: The Equivalent Peaker Cost method would shift some
6 production plant cost responsibility away from low-load
7 factor customers and classes and toward high-load factor
8 customers and classes, would it not?

9

10 A: Yes.

11

12 Q: Yet you are not advocating any accompanying change in
13 the Commission's ratemaking procedure for fuel cost
14 recovery, is that correct?

15

16 A: Yes.

17

18 Q: Why not?

19

20 A: Because no such change in fuel cost recovery is
21 necessary. The Equivalent Peaker method actually moves
22 the overall relationship between production plant cost
23 allocation, fuel cost allocation, and fuel cost recovery
24 toward a matched, equitable relationship.

25

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 A fair apportionment of baseload plant costs and
2 baseload-generated energy, which is less expensive than
3 peaker-generated energy, would be one by which each
4 class's share of baseload plant cost responsibility--
5 or baseload plant paid for -- would approximate the
6 share of inexpensive baseload energy received at the
7 baseload fuel cost. Since average-cost pricing of fuel
8 implies that each class gets a share of baseload energy
9 proportional to its share of total energy consumption,
10 we need only look at each class's share of total energy
11 use to identify how much baseload energy it received at
12 the baseload price. This is particularly obvious in
13 Gulf's case, since 99.8 percent of Gulf's total energy
14 is generated from coal (1990 projected).

15
16 Exhibit 353 (RSW-4) shows that the residential (RS)
17 class should receive in 1989 about 44 percent of the
18 Company's baseload coal-fired electricity. By the EPC
19 method, residential customers would pay for about 43
20 percent of Gulf's baseload plants. By the Refined EPC
21 method, they would pay for nearly 51 percent, and by the
22 12 CP and 1/13th method, they would pay for nearly 53
23 percent. On the other hand, while Gulf's LP and LPT
24 rate classes should receive about 19 percent of the
25 Company's baseload coal-fired energy, by the 12 CP &

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 1/13th method, they would pay for only 15.56 percent of
2 the baseload plants, and by the Refined EPC method, they
3 would pay for even less, 15.49 percent. By the basic
4 EPC method, however, they would pay for 17.25 percent.
5 In summary, the closest match between baseload plant
6 cost responsibility and baseload fuel received is
7 achieved by the basic Equivalent Peaker method. This
8 holds true across all three cost studies for all classes
9 except the GSD class, for which the closest match is
10 provided by the Refined EPC study.

11
12 Q: Doesn't your position really reduce to a simple equity
13 argument, that those who use or benefit from baseload
14 plants should pay for them?

15
16 A: No. Although this is a sound argument, it is not the
17 foundation for my position. My position is based on the
18 "cost-causer-pays" principle rather than on a "benefits
19 received" principle. If I desired only to promote
20 simple economic equity, I would advocate simply
21 allocating the full cost of baseload units on energy,
22 because that's the only way of getting the baseload
23 plant cost responsibility to match up with the fuel
24 savings benefits. In contrast to this simple equity
25 approach, the EPC method recognizes that all customers

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 and classes do contribute to the need to build capacity
2 necessary to serve peak demands, and it allocates the
3 cost of peaking capacity to them accordingly. Although
4 the EPC method is frequently attacked for allegedly
5 shifting cost responsibility onto industrial and
6 commercial classes, applying the EPC method could in
7 fact reduce the rates of industrial and commercial
8 customer classes in cases where a utility's industrial
9 rates had historically been set high in order to hold
10 down residential rates (and, of course, in cases where
11 applying the EPC method to the classes' usage
12 characteristics produces such results).

13
14 Additionally, it is because of the "cost-causer-pays"
15 principle -- i.e., because it is appropriate to
16 recognize the role of peak demands in causing the
17 utility to incur some production plant costs, and
18 because baseload units do serve to meet peak demands--
19 that I find it acceptable to live with the "fuel in-
20 equity" or "fuel mis-match" that remains even using the
21 Equivalent Peaker method.

22
23 Q: Do you believe that the Equivalent Peaker method sends
24 an appropriate price signal relative to the long run

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 marginal or incremental plant costs associated with
2 serving off-peak load?

3
4 A: Yes. I believe that, because of the way utilities
5 determine what type of plant to build, and therefore the
6 cost of additional generating plant, there may well be
7 a long run marginal generating plant cost of off-peak
8 energy use. This would be the additional cost that a
9 utility would incur to build a baseload plant to take
10 advantage of fuel savings available from running the
11 plant in off-peak as well as on-peak periods. As
12 utilities plan, all KWH loads are considered in
13 determining what type of plant is to be built. In some
14 cases, utilities have even found it economically
15 desirable to build a baseload coal plant to obtain
16 energy cost savings in serving broad on-peak and off-
17 peak loads, even when no additional capacity was
18 required for reliability purposes. Rates based on an
19 Equivalent Peaker Cost method will embody an appropriate
20 reflection of this cost. (These rates will not equal
21 the actual incremental cost of new baseload plant above
22 the cost of new peaking plant, which could be \$.015/KWH
23 to \$.035/KWH, because the actual rates will be based on
24 embedded costs. These rates will, however, provide an

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 appropriate price signal reflecting the potential real
2 incremental cost of off-peak use.)

3

4 Q: Have you reviewed the so-called Refined Equivalent
5 Peaker Cost (REPC) study filed by Gulf Power in response
6 to the Commission Staff's Interrogatory No. 2?

7

8 A: Yes.

9

10 Q: Do you believe that the Refined EPC study is superior to
11 the basic EPC study method that you have described and
12 supported above?

13

14 A: No, I do not.

15

16 Q: Please explain.

17

18 A: The Refined Equivalent Peaker method closely follows the
19 basic EPC method except that using the Refined EPC
20 method, the energy-related component of production plant
21 rate base is allocated to the classes according to their
22 shares of energy consumption in the highest-demand hours
23 under the utility's load duration curve. The number of
24 hours is determined according to a break-even cost
25 analysis between building a peaker and building a

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 baseload unit. While this approach has some appeal, I
2 cannot give the method my full support for the following
3 reasons:

4
5 1. It does not track utilities' actual generation
6 expansion planning processes. Specifically, it
7 ignores the utility's total energy loads which are
8 included as an input to the economic analysis phase
9 of the generation expansion planning process.

10
11 2. It does not recognize potential long run
12 marginal or incremental plant costs of off-peak
13 energy use.

14
15 3. It results in a lesser degree of "fuel cost
16 matching", or less fuel equity than the basic EPC
17 study. This is particularly pronounced in the case
18 of Gulf Power Company, because some 99.8 percent of
19 Gulf's energy sales are generated from coal-fired
20 generating plants. As shown in Exhibit 253 (RSW-
21 4), applying the Refined EPC method would have
22 Gulf's LP/LPT and PXT classes pay for only 23.64
23 percent of the Company's baseload coal plants while
24 receiving 29.87 percent of their generation. On
25 the other hand, using the basic EPC method, these

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 classes would pay for 26.52 percent of the
2 Company's baseload coal plants while still
3 receiving 29.87 percent of these units' generation.
4

5 4. Using the highest-demand hours under the load
6 duration curve is not appropriate. In the first
7 place, if the unit were expected to dispatch in any
8 number of hours greater than the break-even number
9 of hours, then, by the break-even hypothesis, it
10 would be built, regardless whether these hours were
11 in the high-demand end or the low-demand end of the
12 load duration curve. Secondly, for technical
13 reasons, a utility would almost surely not build a
14 baseload plant to operate only in the highest
15 demand hours of the year. This is because these
16 hours generally fall within daily peak periods, of
17 a few hours per day, and utilities strenuously
18 endeavor to avoid frequent cycling of baseload
19 units in order to avoid wear on boiler components
20 that results from frequent heating and cooling.
21

22 5. Adopting this approach would place the
23 Commission in a clearly and uncomfortably
24 inconsistent position with respect to production
25 plant cost allocation and the pricing of

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 cogeneration power purchased by utilities. If the
2 Commission determines that all production plant
3 costs are attributable to the highest 1,430 hours
4 (or 1,500 hours or any other similar number of
5 hours) under the load duration curve, then
6 consistency would dictate that Qualifying
7 Facilities should receive the full baseload revenue
8 requirement if they generate for the same period.
9 I do not believe that this would be appropriate,
10 because QFs should be paid baseload revenue
11 requirements only for providing baseload-type
12 service, and I most strongly doubt that either this
13 Commission or Florida's electric utilities would
14 support such a proposal.

15
16 Q: Does the Refined EPC method represent a reasonable
17 compromise between the basic EPC method and the 12 CP
18 and 1/13th Weighted Average Demand method supported by
19 the Company?

20
21 A: It may, but only if one is looking for a compromise.
22 The Refined EPC produces results that generally lie
23 within or not far outside the range defined by the
24 results of the basic EPC method and the 12 CP and 1/13th
25 Weighted Average Demand method. However, as I

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 discussed earlier, I believe the Basic EPC is superior
2 to the Refined EPC (1) because it more closely tracks
3 actual generation expansion planning considerations, and
4 (2) because it more closely matches baseload plant cost
5 responsibility with the inexpensive coal-fired power
6 which predominates Gulf's actual energy production.
7 Where, as here, an analytically correct approach is
8 available, compromises are inappropriate.

9
10 Additionally, while compromises may represent acceptable
11 means of smoothing transitions from one cost of service
12 methodology to a better one, this function is probably
13 fulfilled at least as well by the Commission's
14 traditional "transition rules of thumb" that limit the
15 increases that any class can receive relative to other
16 classes.

17
18 Q: If the Commission determines that using a Refined EPC
19 approach is appropriate in this case, should any
20 modifications be made to the study shown in your Exhibit
21 351 (RSW-2)?

22
23 A: Yes. If the Commission determines that a Refined EPC
24 approach should be used to guide cost allocation in this
25 case, then the Commission should at least require the

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 use of a study that uses the classes' relative shares of
2 energy consumption in the Company's actual on-peak
3 hours, not the energy use in the highest-demand hours
4 under the load duration curve, to allocate the energy-
5 related component of production plant. This would at
6 least tend to capture some of the effects that off-peak
7 energy consumption has on the Company's investment
8 decisions and also to reflect the fact that utilities
9 would not build baseload plants for cycling duty only
10 during peak demand hours.

11
12 Q: What modifications or corrections need to be made to the
13 EPC and REPC studies filed by the Company in response to
14 Staff's Interrogatories No. 1 and No. 2?

15
16 A: Not all primary voltage conductor, subtransmission
17 voltage conductor, and transmission voltage conductor
18 serve common functions. Some function as dedicated
19 facilities. Yet, they are allocated on the basis of all
20 classes' NCPs. The company has allocated all of Account
21 369 - Services, which includes secondary service drops,
22 to secondary voltage-level customers. To be consistent,
23 the company should estimate the rate base value of
24 primary and higher voltage-level conductor that
25 functions as dedicated distribution facilities, or as

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 higher voltage service drops, and directly assign these
2 estimated amounts to the classes that include the
3 customers who are served by these facilities.

4
5 Another important revision is that fuel inventory
6 should be classified as energy-related; the Company's
7 study has classified fuel inventory as demand-related.
8 The re-classification of fuel inventory is not a feature
9 unique to the Equivalent Peaker Cost method; this is a
10 correction that should be made even if the Commission
11 were to adopt the 12 CP and 1/13th Weighted Average
12 Demand method or any other method, simply because fuel
13 is energy-related and allowable fuel inventory is a
14 function of projected generation.

15

16 Q: In your opinion, is there a generic problem with the
17 cost of service methods that allocate most or all
18 production plant costs on the basis of peak demands?

19

20 A. Yes. The problem is that peak demand responsibility
21 methods assume that all production plant costs are
22 incurred to serve peak demand. While it is true that
23 all plant has the capacity to serve instantaneous peak
24 demands in addition to energy loads, allocating all
25 costs on the basis of class peak demands simply ignores

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 the fact that plant costs are incurred not only in
2 consideration of meeting peak demands but also because
3 of the energy loads to be served. Peak demands
4 determine the timing and amount of capacity additions;
5 energy requirements determine the type, and therefore
6 the cost, of capacity to be added. Energy requirements
7 can even affect the timing of a baseload plant
8 addition: by yielding fuel cost savings realized by
9 displacing existing oil-fired capacity, a utility may
10 find it economic to add a baseload coal unit several
11 years before its capacity is needed for reliability
12 purposes. In such a case, it would be technically
13 correct to classify all of that plant's investment as
14 energy-related for the period before its capacity was
15 actually needed for reliability.

16
17 **Q: Why is the Basic Equivalent Peaker Cost method superior**
18 **to the other methods proposed in this case?**

19
20 **A: As I stated at the outset of my testimony, the purpose**
21 **of cost of service analyses is to allocate costs to the**
22 **various customer classes according to the way in which**
23 **the utility incurs them, or according to the utility's**
24 **considerations in incurring costs. This in turn enables**
25 **utilities and regulators to set rates in accordance with**

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 how the underlying costs were incurred. For production
2 plant costs, the EPC method more accurately tracks and
3 reflects the utility's own decision-making processes
4 than any other study in this case. It comes closer than
5 any other to accurately reflecting the utility's
6 considerations (1) in adding capacity to meet peak
7 demands, and subsequently (2) in determining what type
8 of capacity to add, and therefore how much it will
9 spend.

10
11 **Q. Mr. Wright, do you support time of use rates for all**
12 **customers?**

13
14 **A:** Yes. I think that everyone familiar with the subject
15 recognizes that costs vary according to time of day, and
16 perhaps the time of year, when electricity is generated
17 and consumed. I believe that time of use rates can be
18 designed that more accurately reflect cost of service
19 than do standard or non-time-differentiated rates.
20 Because implementing rates that accurately reflect costs
21 should be the goal of ratemaking, I support time of use
22 rates.

23
24 **Q:** Please describe the implications of the Equivalent
25 Peaker Cost method for time of use rate design.

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

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A: For ratemaking purposes, I would recommend that the non-fuel energy charge in both the on-peak and off-peak periods be set equal to the energy unit cost for each class. This would include the cost of production plant classified as energy-related plus energy-related operations and maintenance expenses. If it were possible to directly assign the non-fuel variable operations and maintenance expenses associated with peaking units to the on-peak energy charge, that would be desirable. Additionally, to the degree that true differences between on-peak and off-peak variable production operation and maintenance expenses can be identified and calculated, it would be desirable to assign them to the on-peak and off-peak energy charges accordingly. However, I believe that these refinements are probably so small as to be non-essential, if indeed they are measurable at all. The maximum demand charge, applicable to the customer's highest measured demand in the current month or a preceding "ratchet period" of one to two years, regardless whether it occurred on-peak or off-peak, would be an amount sufficient to recover the cost of local distribution facilities, including O&M costs, plus possibly some component of non-local distribution costs, e.g., substations. The on-peak

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 demand charge would be set to recover the revenue
2 requirement for demand-related production and
3 transmission costs, plus any distribution costs not
4 recovered through the maximum demand charge.
5 Appropriate time-of-use rates should also include a
6 cost-based customer charge and time-differentiated fuel
7 charges.

8
9 Because residential and general service, non-demand
10 customers do not pay demand charges, their demand-
11 related revenue requirements would be recovered through
12 the on-peak non-fuel energy charge for these classes.
13 The customer charge would be the same as that for non-
14 TOU members of the same class, adjusted to reflect
15 higher costs of metering and billing, as appropriate.

16
17 Q: In your opinion, would the higher metering costs
18 associated with time-of-use rates be cost-effective?

19
20 A: Possibly. The evidence with which I am familiar seems
21 to indicate that for relatively slight differentials
22 between on-peak and off-peak rates, the effects on peak
23 demand reduction are correspondingly slight. On the
24 other hand, because time-differentiating meters are
25 relatively inexpensive, no more than \$200 for watt-

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 hour meters which would be used for the residential and
2 small commercial classes where the effects of time-of-
3 use rates would be the least, it would only take a
4 reduction of one-half to two-thirds of a diversified kW
5 per customer to make the investment cost-effective.

6

7 Q: How should rates be set for Gulf's General Service (GS)
8 rate class?

9

10 A: The GS rates should be set equal to the Company's RS
11 rates. I believe that Gulf's GS rates got off the
12 proper track several years ago due to problems with load
13 research estimating procedures, and it is past time to
14 rectify the inequitable situation that presently exists.
15 Gulf itself proposed setting the RS and GS rates equal
16 in its 1984 general rate base.

17

18 Cost of service studies almost invariably show that it
19 costs no more, and frequently less, to serve the GS
20 class than it costs to serve the RS class, on a unit
21 cost basis. For reasons of administrative efficiency,
22 the Commission has wisely supported a policy of setting
23 the GS and RS rates equal for other utilities in the
24 state rather than attempting to set the GS rates at unit
25 cost.

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1

2 I recommend that the Commission follow this policy in
3 this case, even though it means that the GS class will
4 receive a decrease. In my opinion, the decrease is long
5 overdue.

6

7 Q: Have you reviewed the minimum bill provision proposed
8 by Gulf in its rate schedules?

9

10 A: Yes, I have.

11

12 Q: Do you believe that this proposal is sound?

13

14 A: No.

15

16 Q: Please explain.

17

18 A: By the language proposed by the Company in its response
19 to Interrogatory No. 48, Staff's Third Set, the minimum
20 bill provision of Gulf's LP/LPT and PX/PXT tariffs
21 appears to permit non-fuel energy charges and fuel
22 charges to count toward satisfying the customer's
23 minimum bill under some circumstances. This is contrary
24 to the Commission's energy conservation policies in
25 that for some range of consumption, it may send a signal

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 to customers that their incremental cost for additional
2 energy consumption is zero. Considering a simplified
3 example, if a customer is faced with a minimum bill of
4 \$5,000, and he is allowed to count all charges,
5 including fuel and non-fuel energy charges, towards the
6 minimum, the real incremental cost to the customer of
7 using the first \$5,000 worth of energy is zero.

8
9 Q: Do you have an alternate proposal?

10
11 A: Yes. I would recommend that the Commission direct Gulf
12 to implement a local facilities or distribution demand
13 charge for these rate classes
14 calculated in exactly the same way as that prescribed by
15 the Commission for standby customers in Docket No.
16 850673-EU. That charge is based on each class's
17 distribution unit cost, calculated using 100 percent
18 ratcheted billing demand, and is applied to the
19 customer's highest measured demand during the current
20 month or in a specified period preceding the current
21 billing month; the "ratchet period" for standby rates is
22 generally two years.

23
24 This rate design assures that customers pay more

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 directly the costs of maintaining the distribution plant
2 and capacity necessary to serve their maximum demands.

3

4 Q. Please summarize your testimony.

5

6 A: Despite the thousands of steps and individual
7 calculations involved, cost of service allocation is not
8 conceptually difficult. Utilities and regulators should
9 strive to allocate cost responsibility to the classes so
10 as to track the considerations and decisions that
11 determine how costs are incurred. Of the cost of
12 service allocation methods proposed in this case, the
13 Equivalent Peaker method is the best in this regard: it
14 assigns peak-demand-related production plant costs to
15 classes on the basis of their contributions to peak
16 demands, and it assigns the additional plant costs
17 incurred because of energy loads to be served on the
18 basis of the classes' energy use. In so doing, it
19 reflects cost causation more accurately and more fairly
20 than do the other studies in this case.

21

22 Additionally, it results in a fairer apportionment of
23 the additional costs of building a baseload plant, as
24 opposed to a peaker, in relation to the classes' shares
25 of cheap baseload energy received.

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

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Time of use rates for demand-metered classes should be designed to include (1) an appropriate cost-based customer charge, (2) a non-fuel energy charge set equal to the respective class energy unit costs for both on-peak and off-peak energy use, (3) an on-peak demand charge designed to recover each class's demand-related production and bulk transmission revenue responsibility, (4) a maximum demand charge designed to recover the costs of local facilities, plus appropriate non-local distribution facilities, applied to the customer's maximum demand during the past one to two years, and (5) time-differentiated on-peak and off-peak fuel charges. TOU rates for non-demand-metered customers should include (1) a customer charge, (2) an off-peak non-fuel energy charge equal to class energy unit cost, (3) an on-peak non-fuel energy charge equal to the class energy unit cost plus the class's demand-related production, transmission and distribution cost responsibility expressed on a cents-per-on-peak-KWH basis, and (4) time differentiated fuel charges.

To have rates that more closely track costs yet are administratively efficient and manageable, Gulf's

DIRECT TESTIMONY OF ROBERT SCHEFFEL WRIGHT

1 general service non-demand (GS) rates should be set
2 equal to the company's RS rates.

3

4 The Commission should require Gulf to implement a local
5 facilities demand charge (or distribution demand charge)
6 for its large demand-metered classes. This charge
7 should be calculated in the same way as the local
8 facilities charge for standby customers prescribed by
9 this Commission in Docket No 850673-EU.

10

11 Q: Does this conclude your direct testimony?

12

13 A. Yes, it does.

14

15 C:\gulftest

1 Q (By Mr. Burgess) Mr. Wright, have you
2 prepared a summary of your direct testimony?

3 A Yes, sir.

4 Q Would you please deliver that summary to the
5 Commission?

6 A Yes, sir. Cost of service studies allocate
7 costs incurred by the electric utility to rate classes,
8 and they should be used to guide rate design. To the
9 extent possible, cost of service studies should reflect
10 cost causation factors that determine utility's cost
11 incurrence decisions. It's my testimony that the
12 equivalent peaker method or basic equivalent peaker
13 method, as it is specifically denominated, tracks the
14 cost-causing factors that determine electric utility's
15 spending decisions regarding production plant
16 investment, better than any other method in this case.

17 The equivalent peaker method closely tracks
18 the two-stage process of electric utility generation
19 expansion planning. The method recognizes that
20 reliability index values, which achieve critical
21 magnitude in a number of peak hours, drive the Utility
22 to add capacity, and that energy loads incorporated
23 into the economic analysis component of generation
24 expansion planning determine the type of plant and
25 therefore how costly a plant that the electric utility

1 will add once a need for additional capacity and the
2 timing of that need have been identified.

3 The peaker method reflects this process first
4 by classifying the cost of peakers, plus the cost of
5 peaking capacity equivalent to that of the Utility's
6 intermediate and baseload units as demand related, and
7 by allocating them on the basis of an appropriate
8 demand, peak demand allocator.

9 It secondly tracks the process by classifying
10 the extra costs incurred by the Utility to build
11 intermediate and baseload plants, which decisions are
12 driven by the economic analysis component of system
13 planning as energy related and allocationg them to the
14 classes according to their respective shares of the
15 Utility's energy loads.

16 Pure demand classification methods fail to
17 accurately reflect the factors that determine the
18 electric utility's planning decisions. Specifically,
19 they fail completely to recognize the important role of
20 energy loads in determining what type of and therefore
21 how costly plant the utility builds.

22 The 12 CP and 1/13th method, while it
23 attempts to address the role of energy in generation
24 expansion planning, is judgmental. It basically adds a
25 thirteenth number to 12 other numbers and understates

1 the true role of energy in determining generation
2 expansion planning decisions.

3 The refined equivalent peaker Method, while
4 it has some intuitive appeal, is incorrect for several
5 reasons. It does not track actual generation expansion
6 planning decision processes as well as the basic
7 equivalent peaker method does. Utilities conduct the
8 economic analysis component of generation planning
9 based on serving all the loads in all the years of the
10 expansion studies on a system basis, not on the basis
11 of loads to be served in some number of hours under the
12 high-use end of the load duration curve.

13 The refined equivalent peaker method does not
14 recognize potential long-run marginal or incremental
15 plant costs of off-peak energy use. With one very
16 slight exception in Gulf's case, the refined equivalent
17 peaker method results in a lesser degree of fuel cost
18 equity or fuel cost matching or fuel symmetry than does
19 the basic equivalent peaker method.

20 Fourth, using the high demand hours under the
21 low duration curve is not appropriate and it ignores
22 realistic cases where off-peak use can cause the
23 Utility to build baseload plant. It fails to recognize
24 that utilities generally will not build a baseload unit
25 to run only in 1430 or 1500 or 1600 hours a year.

1 Finally, adopting a refined Equivalent Peaker
2 approach would place the Commission in an uncomfortable
3 position of having adopted conflicting judgments on the
4 costs caused by and avoided by energy loads. If you
5 adopt the refined equivalent peaker method, it's
6 explicting adopting the position that usage under the
7 high end of the load duration curve causes the Utility
8 to build a baseload unit. Logically, if usage in these
9 hours, 1430 or 1500, or whatever similar number of
10 hours are indicated, causes the Utility to build a
11 baseload unit, then power provided during these same
12 hours would avoid that unit.

13 I believe this indicates a conflict in cross
14 principles that would be applied to cost of service
15 analysis and that which is applied to the evaluation of
16 QF power.

17 I don't believe that this Commission, nor
18 Florida's electric utilities, are ready to pay baseload
19 revenue requirements to QFs or IPPs for power delivered
20 only during 1500 peak hours a year, nor would I advise
21 the Commission to do so.

22 Having said all that, if the Commission wants
23 to use a refined equivalent peaker method, it should at
24 least use the class shares of energy use in the
25 Company's actual on-peak hours as the energy allocator,

1 and by actual on-peak hours, I mean those hours that
2 are within the period designated as on peak for
3 time-of-use rate purposes. This will capture some of
4 the contributions of off-peak use to decisions to build
5 baseload units and would also help to reflect the fact
6 that utilities will not build baseload units for
7 cycling duty during high-use hours only. It doesn't go
8 far enough because the actual on-peak periods only
9 include about 25% of the hours in the year as opposed
10 to the minimum of around of 40% that a baseload unit
11 would actually be run. But it's a lot better than the
12 totally unrealistic 16% of the hours indicated and
13 assumed by the refined equivalent peaker method and as
14 reflected by Mr. O'Sheasy's break-even analysis for
15 Gulf.

16 My testimony addresses the issue of local
17 facilities' charges and minimum bill provisions. I am
18 concerned somewhat about the potential application of
19 the Company's proposed minimum bill provisions because
20 they would appear, based on my reading, to permit
21 nonfuel energy charges and fuel charges to count toward
22 the minimum bill amount applicable under the rate.

23 I don't mean any prejudice here, but I'm
24 going to mention something about Mr. Haskins' testimony
25 in rebuttal. He's testified in rebuttal that the

1 Company would not count fuel and nonfuel energy charges
2 toward customers' minimum bills under the Company's
3 proposal. Assuming this correct, reduces my concern,
4 but at the bottom line, I don't see any justification
5 for continuing to treat stand-by customers any
6 differently than full requirement customers when it
7 comes to rate design and cost recovery for local
8 distribution facilities. I believe the stand-by rate
9 design, local facilities and distribution demand charge
10 is most sound in this regard, at least for Gulf's large
11 demand meter classes.

12 I support time-of-use rates for all
13 customers, and, yes, I'll bite the bullet; I do mean
14 that I support mandatory time-of-use rates for all
15 customers because they more accurately reflect cost
16 than do non time-of-use rates.

17 COMMISSIONER GUNTER: Slow down just a little
18 bit for the court reporter. She's having to hustle to
19 keep up with you.

20 WITNESS WRIGHT: Thank you, Commissioner
21 Gunter.

22 I offer a proposal for time-of-use rate
23 design that would recover peak demand related cost
24 through on-peak demand, and where applicable, nonfuel
25 energy charges and energy-related costs from all energy

1 consumption, and that would recover local distribution
2 costs via appropriately designed maximum demand or
3 distribution demand or local facilities' charges.

4 Finally, my direct testimony addressed the
5 issue of proper rate design for Gulf's general rate
6 service class. I'm very pleased and feel good that all
7 parties in the case have stipulated to adopt the
8 Citizen's recommendation that general service rates for
9 Gulf be set equal to their RS rates.

10 Q (By Mr. Burgess) Does that conclude your
11 summary, Mr. Wright?

12 A Yes, sir.

13 MR. BURGESS: Commissioners, we tender the
14 witness for cross examination.

15 WITNESS WRIGHT: Gulf Power in a earlier case
16 it also recommended GS rates being set equal to RS.
17 Somehow that didn't happen. I'm glad it happened now.

18 CROSS EXAMINATION

19 BY MR. McWHIRTER:

20 Q Mr. Wright, as I understand it you're
21 presently in law school?

22 A Yes, sir.

23 Q Have you yet taken the course in evidence?

24 A No, sir I haven't. That's generally part of
25 the second year curriculum at Florida State.

1 Q When you get to the course in evidence
2 they'll talk about fact witnesses and opinion
3 witnesses. And as I understand it you're offering an
4 opinion here as to things that are not readily
5 perceptible to the average man in the street as a
6 matter of fact, is that correct? A fact witness would
7 be somebody who observed a collision at an intersection
8 and he tells what he saw. An opinion witness formulates
9 an opinion to help people derive their ultimate conclusion
10 that they're trying to seek with respect to certain
11 issues. Are you an opinion witness or a fact witness?

12 MR. BURGESS: Are you asking for a legal
13 conclusion from this witness, Mr. McWhirter?

14 MR. McWHIRTER: I'm trying to figure out what
15 he is.

16 COMMISSIONER GUNTER: He's a Class B
17 practitioner. He could probably offer both, couldn't
18 he?

19 Q (By Mr. McWhirter) Sometimes opinion
20 witnesses are called expert witnesses. Would you
21 classify yourself as an expert witness, perhaps?

22 A Mr. McWhirter, I think it's fair to say that
23 I hold myself out as an expert witness on certain areas
24 within the overall area of cost of service analysis and
25 rate design. I think, based on what I know, and I have

1 heard the expressions "fact witness" and "opinion
2 witness," before and certainly the expression "expert
3 witness," I think your characterization is generally
4 correct that my testimony involves expert opinion as to
5 proper policies and practices for the Commission to
6 adopt. As to whether I'm a fact witness, on some cases
7 I may be in that I can point to certain facts and
8 factual examples that support --

9 Q Support your opinion.

10 A Support my opinion.

11 COMMISSIONER BEARD: Was that statement you
12 just made factual or was that an opinion?

13 WITNESS WRIGHT: Well, since it's a statement
14 about my testimony and my knowledge, I would hold that
15 out to be a fact, Commissioner Beard.

16 COMMISSIONER EASLEY: He went towards 101.

17 (Laughter)

18 Q (By Mr. McWhirter) Typically, Mr. Wright,
19 when you have an expert witness, such as yourself, who
20 is going to offer an opinion upon which the Commission
21 should base its decision, he has some peculiar
22 knowledge in a specialized field that is not generally
23 held by the persons who are going to make the ultimate
24 decision. Did I understand you to say that you're
25 going to offer expert opinion evidence on cost of

1 service methodology and rate design?

2 A I think that's fair, yes, sir.

3 Q Now, in order to do that, then you must be
4 skilled through your educational background or from
5 your training or from certain other knowledge that
6 shows that you know more than the ordinary man in the
7 street about these fields. And I'd like to go through
8 your very ample and excellent credentials and ask you
9 which of those credentials give you the expert training
10 that you need in order to offer opinion evidence in
11 connection with cost of service and rate design.

12 At the University of Florida you got a degree
13 with high honors in economics. Did the courses -- and
14 then you went on for a PhD. Did the courses in
15 environmental economics, industrial organization,
16 regulatory and antitrust economics and public finance
17 deal with the subjects of the cost of service studies
18 for electric utilities or rate design for electric
19 utilities?

20 A Generally not. The courses in regulatory
21 economics did deal with revenue requirements
22 determinations and ratemaking policies for some
23 industries.

24 Q All right, sir.

25 A The courses in environmental economics

1 exposed me to a lot of cost considerations to which
2 electric utilities are subject, but the environmental
3 economic courses, per se, did not good into cost
4 allocation and rate design well with the exception that
5 some of them did consider peak load pricing.

6 Q Environmental concepts are like peak load
7 pricing, is that what you said?

8 A I think what I said was that my studies in
9 the field of environmental economics did include
10 studies of peak load pricing, which is a rate design
11 technique that was, and still is, thought to promote
12 optimal consumption decision makings by accurately
13 reflecting cost differences between on-peak energy
14 consumption and off-peak energy consumption. So to
15 some extent my work in environmental economics did
16 address that area.

17 Q While you were at the Commission you had
18 training sessions on cogeneration, then you were an
19 instructor in a regulatory seminar on the presentation
20 of current issues in energy.

21 I perceive that when you were an instructor
22 and when you dealt with cogeneration in some fashion,
23 those dealt with the rate design and cost of service
24 methodology, those courses?

25 A I don't think that the presentation on

1 current issues and energy covered cost of service
2 analysis. It did cover rate design to some extent. I
3 recall that three of the specific topics covered in the
4 presentation were interruptible or non-firm electric
5 service, standby rate design for cogenerators and
6 retention rates or cogeneration deferral rates as
7 they're sometimes called. They are obviously
8 underpinned by a cost of service analysis, but I don't
9 think my specific instruction session dealt with cost
10 of service issues.

11 Q All right, sir. When you left Duke you
12 became an Assistant Professor of Economics at St. Olaf
13 College in Northfield, Minnesota, where you taught
14 various courses in economics. I would suspect as a new
15 professor you were teaching Economics 101 and things
16 like that, is that correct? You say Industrial
17 Organization, Environmental Economics, and Principles
18 of Economics.

19 A Yes, sir. I taught courses specifically
20 entitled "Industrial Organization", "Environmental
21 Economics" "Principles of Economics" and "Urban
22 Economics." I also taught a variety of seminars in
23 theory and current topics and things like that.

24 Q Did your studies in preparation for those
25 courses entail utility cost of service techniques or

1 rate design?

2 A No, sir.

3 Q Now, then, you went with the Minnesota
4 Legislative Auditor's Office from 1976 to 1979. Did
5 the Legislative Auditor get into those areas in
6 Minnesota?

7 A We didn't get into electric utility cost of
8 service in rate design. However, one of the largest
9 projects that I worked on was a project in regulatory
10 economics and finance involving cost analysis and rate
11 design for nursing homes that were subject to state
12 regulation as to the allowable rates charged to
13 Medicaid patients. Basically, the approach of
14 determining revenue requirements, thence determining
15 rates is virtually identical to the same regulatory
16 approach undertaken in a electric utility regulation.

17 COMMISSIONER BEARD: Counselor, if I might,
18 real quick. This is a fascinating tour of
19 "This is Your Life, Schef Wright," but perhaps, given
20 that I don't have anything to do tonight, and I'm
21 really enjoying this, perhaps we could ask him what
22 parts of his career would lend itself to this, and we
23 might bypass some of this for another more pleasurable
24 time.

25 COMMISSIONER GUNTER: The only thing that was

1 concerning me -- I was waiting until you got to about
2 the banking seminar that was held in Northfield,
3 Minnesota, wasn't it?

4 MR. McWHIRTER: Jesse James on his way in?

5 COMMISSIONER GUNTER: Yes, I was wondering if
6 you were going to get into that. (Laughter)

7 MR. McWHIRTER: You're too young for that.

8 WITNESS WRIGHT: They still have "Jesse James
9 Days." You can still see the bullet holes in the bank.

10 CHAIRMAN WILSON: It wasn't an S&L, was it?

11 WITNESS WRIGHT: Well, I'm not sure they had
12 S&Ls sir. I'm sure it was a bank; Northfield National,
13 I believe.

14 MR. McWHIRTER: I could ask him the ultimate
15 question, Commissioner Beard, but I think it might put
16 it somewhat out of context and I'm almost there, so if
17 you don't mind, I'd like to --

18 CHAIRMAN WILSON: Go ahead.

19 COMMISSIONER BEARD: We'll be here Saturday
20 and Sunday together.

21 MR. McWHIRTER: -- going through with it.

22 Q (By Mr. McWhirter) From Minnesota, after the
23 Northfield bank job, you went to the Kentucky General
24 Assembly as an Economist Analyst, I guess. Did you
25 deal with the same kinds of things there you had in

1 Minnesota?

2 A Generally, I dealt with the same kind of
3 things. They were generally program evaluation
4 studies, economic and financial studies. It was not
5 anything specific dealing with electric utility, cost
6 of service and rate design in my work for the Kentucky
7 General Assembly.

8 Q Then you came to Florida with the Governor's
9 Energy Office, and you did work on the Statewide Energy
10 Use and Forecasting. As I recall, the Governor's
11 Energy Office was a proponent of cogeneration, is that
12 correct? Were you involved in any of those efforts to
13 propose and promote cogeneration?

14 A I was not directly involved in any efforts to
15 propose or promote cogeneration. I was in the Data and
16 Research Section within the Governor's Energy Office.
17 There were several other conservation -- there were
18 several other units, operational functional units
19 within the Energy Office, one of which I think was
20 cogeneration; another of which was schools and
21 hospitals conservation; Another of which was
22 residential conservation and another of which was
23 commercial and industrial conservation.

24 Q Did they deal with cost of service and rate
25 design in any fashion?

1 A Not with cost of service and rate design as
2 the terms of art that we use them here. It dealt with
3 utility costs, but not as terms of art as we use them
4 here.

5 Q You came to the Public Service Commission and
6 you went to the Research Department where you worked on
7 analyzing future values, present value analyses,
8 cost/benefit analyses and inflation adjustment
9 techniques. Are those related to cost of service or
10 rate design?

11 A Not directly. They're related to utility
12 costs, surely, and they provide a sound basis for
13 understanding present worth revenue requirements tests
14 that's applied to many different facets or analysis
15 that's applied to many different facets of utility
16 regulation. But that particular report or small book
17 that I wrote did not address or relate directly to
18 electric utility cost and service and rate design
19 issues.

20 Q Mr. Wright, have you ever worked for a
21 utility as a system planner or a cost of service
22 analyst or a rate design expert or technician?

23 I'm talking as an employee of one.

24 A No, sir.

25 Q Have you ever worked for a customer, a

1 corporation customer, that buys electricity in dealing
2 with these issues?

3 A As a direct, regular-line employee of the
4 corporation?

5 Q Yes, sir.

6 A No, sir.

7 Q All right, sir. Now, I would perceive that
8 the great bulk of your knowledge with respect to cost
9 of service principles and rate design came after 1984
10 when you were an employee of the Bureau of Electric
11 Rates of this Commission, is that correct?

12 A The bulk, but not the entirety.

13 Q All right. Outside of that period, what
14 other areas did you get educational experience or
15 on-job training that helped you with these areas?

16 A In my early time at the Commission, in the
17 Research Department, I was part of the team that was
18 essentially the contracting arm of the Commission in
19 buying some cost of service software from a contractor.
20 I believe the contractor's name was Economic
21 Engineering Services, Incorporated, out of, I think it
22 was Seattle, maybe it was Tacoma or something like --
23 maybe it was even Bellevue, but it was someplace up by
24 Seattle.

25 They prepared, I believe the Commission had

1 received a grant authorized by the Public Utility
2 Regulatory Policies Act to have some cost of service
3 software prepared. Mr. Henneberger was the chief
4 contracting officer and the head of our team. My role
5 as a fairly new employee in the Research Division was
6 to work on it and familiarize myself with it and do
7 some practice runs of the cost of service methodology
8 -- methodologies, I should say. Because they included
9 both an embedded cost of service package and a marginal
10 cost of service package.

11 Q So, obviously, you had to learn what the
12 difference was, at that point in time, between embedded
13 and --

14 A Right, and I had to learn what the steps of
15 functionalization and classification and allocation
16 were and, in general, what we were talking about, and
17 additionally, in that context, I picked up some
18 information about generation system planning.

19 Q You dealt with salesmen that were promoting
20 the software project?

21 A No, sir. I don't think characterizing the
22 individuals with whom I dealt as salesmen is accurate.
23 The folks I dealt with were like senior consultants
24 with the firm who had experience in the area. In fact,
25 one of the chief employees of the contractor was a man

1 named Alan Matthews, whom I believe was the principal
2 author of the American Public Power Association's Cost
3 of Service Allocation Manual.

4 Q When you recommended a software package to
5 the Commission, did the package -- was it able to do it
6 both ways or was it limited in the cost of service
7 methodologies that could be chosen?

8 A You asked the question, "Was it able to do it
9 both ways?" I did not understand that part.

10 Q Well, many ways.

11 A Yes, it was. You could choose all different
12 kinds of allocation methodologies, and you could choose
13 from an embedded cost method package and a marginal
14 cost method package. And within the embedded cost
15 method package, at any rate, you could choose to
16 classify and allocate in several different ways.

17 Q The software package that you recommended to
18 the Commission, could it do a broad periphery of
19 studies?

20 A I'm not the sure what you mean by "broad
21 periphery," but I think it could do any of the studies
22 that are on the table in this case.

23 Q All right. You participated, you said your
24 main assignments were in the Commission's generic cost
25 of service docket and the generic nonfirm rates docket.

1 I presume you picked up some pretty good experience
2 there. Were you an expert Staff witness testifying in
3 those cases or were you a Staff person learning about
4 what was going on from the testimony that was
5 presented?

6 A In the generic cost of service docket, I
7 think we held a workshop. There was never a hearing
8 held in that docket. The full title of the docket was
9 "Generic Investigation into Cost of Service Methods in
10 Relation to Time-of-Use Rates." I was the principal
11 Staff member assigned to it. I wound up writing a
12 short report to fulfill the charge of the docket that
13 the Commission, I believe, accepted it internally --
14 no, I believe since it was a docket, I think it would
15 have been accepted at the Agenda Conference.

16 Q Essentially, report to the Commission on this
17 issue and --

18 A Yes. Exactly. Now, in the generic
19 investigation of nonfirm rates, the judgment was made
20 after one or more workshops to make that docket into a
21 rulemaking proceeding in which I was, indeed, the
22 Staff's expert witness. In fact, I recall you and I
23 had an excellent discussion on cross examination in
24 that docket.

25 Q And, as always, you enlightened me greatly.

1 A It was mutual, to be sure.

2 Q You participated in the self-service wheeling
3 petition of W. R. Grace and Company. As I recall, that
4 was a case in which Grace had a cogeneration plant and
5 a mine, and they wanted to send Grace's electricity
6 over Tampa Electric Company's wires down to its mines.
7 And the Commission determined that it could not do
8 that. Is that correct in that case?

9 A That's pretty close. I believe that the
10 Commission determined that it would not order Tampa
11 Electric to provide the self-service wheeling service
12 petitioned for by Grace.

13 I don't think they said they couldn't do it.
14 I think they said, "We would not order the Utility to
15 provide the requested service."

16 Q And Grace went ahead and built the line
17 themselves because Tampa Electric wouldn't permit them
18 to wheel?

19 A It's my understanding that three or four
20 years subsequent to that docket they finally completed
21 construction of the line.

22 Q And you participated in the Commission's
23 generic docket on appropriate rates for standby
24 service. And then you became the Chief of the Bureau
25 of Electric Rates and you supervised, recruited and

1 trained five persons on the professional Staff. Are
2 those persons still with the Commission?

3 A Three of them are.

4 Q Are they participating in this case?

5 A Yes, sir.

6 Q Are you advising with them in this case?

7 A No, sir.

8 Q Have they adopted your philosophy in this
9 case?

10 A I don't believe so, according to the
11 prehearing statement, the prehearing order. They have
12 taken the position, so far, in favor of the refined
13 equivalent feature method.

14 Q Since you have become a consultant, it
15 appears you've done a good bit of work on behalf of
16 cogenerators?

17 A I think that's a fair statement, yes, sir.

18 Q Essentially what does that work revolve
19 around?

20 COMMISSIONER GUNTER: This sounds like a job
21 interview.

22 MR. McWHIRTER: That's kind of. We're trying
23 to figure out what his experience is.

24 COMMISSIONER GUNTER: That's what I mean. It
25 sounds like a job interview.

1 MR. McWHIRTER: It really is.

2 COMMISSIONER GUNTER: Got any openings over
3 there? Scheff, is he paying you enough?

4 WITNESS WRIGHT: Excuse me, sir?

5 COMMISSIONER GUNTER: Nothing.

6 Q (By Mr. McWhirter) What do you do for
7 cogenerators, Mr. Wright?

8 A I'm just going to make a list of my clients
9 and then I'm going to identify what it is I do for
10 them.

11 Q Okay. (Pause)

12 COMMISSIONER GUNTER: 30-minute job
13 interview.

14 A My testimony indicates that I'm employed in
15 two capacities at the present time. I'm employed with
16 the law firm of Wiggins and Villacorta in the capacity
17 of resident economist and special consultant on
18 regulatory matters. I'm also employed by a separate
19 Florida corporation, West Park Group, Incorporated,
20 which is a consulting firm, As the Vice President and
21 principal consultant. I do work and have done work for
22 cogenerators through both of these entities; that is,
23 through both the law firm and through the consulting
24 firm.

25 I participated extensively in our law firm's

1 work representing Empire Energy Management Systems,
2 which is a cogeneration developer that is now in the
3 process of constructing a qualifying facility
4 cogeneration project on McDill Air Force Base. I have
5 done some work for one particular cogenerator, a sugar
6 refinery operation, as it relates to their standby
7 rates status, vis-a-vis their host utility.

8 I've done some work with another cogenerator
9 as relates to their status under the host utilities
10 standby rates, specifically whether certain power they
11 take is supplemental or whether it's backup and
12 maintenance power. And I've also consulted with them
13 on issues pertaining to gas costs in relation to a
14 natural gas utility rate case that will almost surely
15 have an effect on them. And preliminarily, at least,
16 in relation to the possibility of their selling power
17 to their host utility.

18 I did some work for a developer, or a hopeful
19 developer, of large cogeneration projects in Florida in
20 conjunction with the Commission's cogeneration
21 rulemaking docket. I was not a witness for them. I
22 did research and helped them draft commentary on the
23 proposed rule, things like that. That specifically was
24 through the consulting firm.

25 I do some work for another developer of what

1 are commonly called "Packaged Cogeneration Systems,"
2 fairly small, real small, when you get right down to
3 it, under 50 kilowatt packages, that produce hot water,
4 chilled water, chilled refrigerant and are capable of
5 producing electricity. In that context, I do a variety
6 of things for them, ranging from legal research to
7 reviewing their business plans to trying to help them
8 line up some financing.

9 Q You appeared on behalf of the Michigan
10 Attorney General in the Consumer Power Company case,
11 the power supply case?

12 A That's correct.

13 Q Did you offer expert testimony in that case?

14 A Yes, sir, I did.

15 Q Were you accepted as an expert witness in
16 that?

17 A Yes, sir, I was.

18 Q In what field of endeavor, sir?

19 A Cost of service and rate design and over
20 Motions to Strike.

21 Q Has that case been concluded?

22 A Yes, sir.

23 Q The state of Michigan adopted your
24 philosophy?

25 A No, sir. They went with the Company's

1 position, which I also testified was reasonable under
2 the circumstances.

3 Q To your knowledge, has any other state or
4 regulatory agency adopted your equivalent peaker
5 methodology?

6 A I'm not sure that I can say it's been adopted
7 in identically the form in which it was adopted by this
8 Commission in Tampa Electric's '85 rate case.
9 Minnesota has adopted a cost of service methodology
10 that is at least very, very similar, and possibly
11 identical.

12 In reviewing -- I'll tell you, in the course
13 of the Michigan case, my colleague, Dr. Daryl Nall,
14 telephoned a variety of state utility commissions and
15 asked them how they did it. The information she
16 gleaned from her conversation with folks from the
17 Minnesota PC indicated what they did was virtually
18 identical to the methodology that I advocate. They
19 sent us a copy of an order; reviewing the order, I
20 can't conclude that it was exactly identical to what we
21 did here, but I think it's safe to say it was fairly
22 similar.

23 Nevada uses as marginal cost basis that
24 incorporates some peaker methodology characteristics.
25 The New Jersey Board of Public Utilities had placed

1 before it something very, very similar to a peaker
2 method by the utility there, PS E&G. My understanding
3 is the Utility submitted that study in an effort to
4 have a moderate amount of reduction plant cost
5 classified by demand-related BPU; rejected that
6 approach and allocated even the percent classified as
7 demand-related, based on an equivalent peaker approach,
8 as energy related and allocated that on a basis as
9 excess energy consumption, which was defined
10 analytically as the difference between energy
11 consumption in the peak hours and some base amount.

12 So my perception and understanding from my
13 conversation with the fellow on the New Jersey BPU
14 Staff was that the methodology they adopted was even
15 more heavily oriented towards energy than my equivalent
16 peaker methodology.

17 Q This is in New Jersey or Nevada?

18 A New Jersey.

19 Q New Jersey. And you say Nevada has adopted
20 it?

21 A Nevada does something that is like what you
22 might call a marginal peaker study. They set the
23 demand charge for on-peak use equal to the cost of a
24 new peaker, and then they spread the other costs on
25 energy.

1 Q That's just kind of an element of it.
2 Michigan rejected it, and what approach did it take?

3 A The specific issue in the case in which I
4 testified in Michigan, Case No. U-8866R, was the proper
5 allocation of power supply costs or specifically of
6 capacity charges paid to QS under power purchase
7 agreements.

8 The Commission's practice had theretofore
9 been to allocate and recover those costs on a
10 cents-per-kilowatt-hour basis; and, in that, it exactly
11 reflected their practice of setting the contractual
12 payments for QF power to QS and IPPs on a cents-per-kWh
13 basis.

14 My testimony in that case was that it was
15 reasonable to do it in that case under its particular
16 circumstances; but that were I left to my own devices
17 and if they were asking my expert opinion -- but, of
18 course, since I drafted the prefiled testimony, I did
19 -- I told them I thought that the issue should be
20 considered in a general case with the costs, the
21 capacity costs, allocated according to an equivalent
22 peaker methodology.

23 The Company proposed to continue doing it on
24 and an all-energy basis. I testified that it was
25 reasonable to do so, and the -- actually, I misspoke a

1 while ago; it doesn't change anything substantively. I
2 said the proceeding had been concluded; it hasn't been
3 concluded. The administrative law judge has issued a
4 Proposal For Decision, or PFD, recommending that the
5 Commission continue its previous practice of allocating
6 the capacity charges on an all-energy basis. And it's
7 that Proposal For Decision that has gone to the
8 Commission.

9 COMMISSIONER GUNTER: Are we getting close?

10 MR. McWHIRTER: I'm about done, yes, sir,
11 with respect to his qualifications.

12 COMMISSIONER GUNTER: Okay. Well, 20 minutes
13 ago you were real close.

14 Q (By Mr. McWhirter) I noticed that you --
15 well, as I understand it, we're dealing here with your
16 expert opinion on cost of service then and on rate
17 design; and you're not holding yourself out as an
18 expert in any other field, such as system planning or
19 things of that nature?

20 A That's correct.

21 Q All right. You want to set the general
22 service rates the same as the residential service
23 rates.

24 I remember when I worked for the Commission
25 years ago, I asked some wizened oldtimer in the Rate

1 Department why it was that they charged a business a
2 higher charge for telephone than they did for a
3 residence when they both just had one telephone at one
4 number. He said, "We use what we call 'value of
5 service concept.'" And I perceive that the same thing
6 is happening in the electric industry where you have
7 businesses and residential, there's some value of
8 service concept on the business charge and that's how
9 the charges got separated early on?

10 A That's not my understanding of how that came
11 to pass. As briefly as I can, my understanding of how
12 that came to pass was that the GS number and demand
13 allocation coming out of the load research study was
14 the plug number. All the others had reasonably
15 well-defined estimates. And then they had a system
16 number, and the GS number was the difference. And when
17 it came out, it came out indicating that they ought to
18 get a whole bunch of costs assigned to them. And so
19 they did, and the rates got up there.

20 Subsequent to that, I think in the next Gulf
21 case, I think Gulf proposed to set them equal and for
22 some reason the Commission decided not to do that.
23 Whether that was the last case that was completed
24 before this one, I don't know.

25 I think there was another one in '84, in

1 which it was an issue; but I don't think it had to do
2 with value service pricing, Mr. McWhirter, I think it
3 had to do with flat-out a defect in load research.

4 Q Isn't it true that in every utility in
5 Florida that the general service rate is higher than
6 the residential service?

7 A Not to my knowledge. I think that it's true
8 -- I can back up. I can tell you that I know that it's
9 true for some municipal electric utilities. I think
10 that Florida Power Corp. and Tampa Electric the rates
11 are exactly equal. And I believe that for Florida
12 Power and Light they are essentially equal. I say,
13 "essentially," because Florida Power and Light still
14 has in place an inverted rate structure for its
15 residential consumers. I believe the GS rate is set to
16 be equal to the RS rate at some break-even point of
17 maybe 1500 or 2000 kilowatt hours a month, something
18 like that.

19 But, no, I don't think it's true at all that
20 the business rate general service rate is higher than
21 the residential rate for the other substantial IOUs in
22 the state.

23 Q That's must be a misperception on my part.

24 The Statute, 366.06, states that the
25 Commission should take value of service into

1 consideration in setting rates. Do you believe that it
2 should or should not? And have you done it in your
3 analyses?

4 A You said something as a premise that I don't
5 recall whether it's true exactly or not. You said, "It
6 should consider value of service pricing." I'm not
7 sure whether it's -- the statutory charge is mandatory
8 or permissive. If it says "should," it says "should."
9 I just don't recall. But I'll answer your question.

10 Q The statute says, "In fixing fair and just and
11 reasonable rates for each customer class, the
12 Commission, to the extent practicable, should consider
13 the cost of providing service to the class..."

14 A Okay.

15 Q "...as well as the rate history, the value of
16 service and the experience of the public utility, the
17 consumption and load characteristics of the various
18 classes of customers and public acceptance of the rate
19 structure."

20 Now, does your EPC method take value of
21 service into consideration?

22 A No, sir. And to answer your previous
23 question, I do not advocate value-of-service pricing.

24 Q And as I understand it, your study is a
25 departure from the history of this Utility, which has

1 always had cost-of-service methodologies based on a
2 peak responsibility system?

3 A I think your characterization goes a little
4 too far, Mr. McWhirter. When you say "always add cost
5 of service methodologies based on," I don't think it's
6 quite true that they've always had cost of service
7 methodologies based on peak responsibility. I think
8 earlier, in the '70s, that they had -- that the
9 cost-of-service methodologies that were employed for
10 Gulf Power were based on an older peaking average
11 demand method that allocated cost based on
12 contributions to a peak demand, and on contributions to
13 an average demand in proportion to the relative
14 magnitudes of the peak demands and the average demand
15 versus each other.

16 Subsequently, we went to a 12 CP and
17 one-thirteenth. My belief is that originally Gulf just
18 added in the average demand as a thirteenth number,
19 which resulted in some 4% or so of production plant
20 cost being classified as energy-related and allocated
21 on that basis. And the Commission corrected that and
22 said, "No, we want you to at least use one-thirteenth
23 or 7.69% as energy-related and allocated, classified
24 and allocated accordingly."

25 Q Your cost of service study is essentially

1 energy-dominated, isn't it?

2 A It's moderately energy-dominated, depending on
3 the analysis that you do for the production plant, and
4 to what component thereof is classified as
5 demand-related and energy-related. It's either 55 or
6 60% energy-related, and correspondingly 35 or 40%
7 demand-related. So it's energy-dominated, but it's not
8 a whole lot more than 50/50.

9 Q And in TECO cost of service case, as I recall
10 it, energy, under the equivalent peaker method,
11 accounted for about 72% of the allocation of production
12 plant, is that not correct?

13 A It's close. Actually, I believe it was a
14 little over 74%.

15 Q But the study that you recommend today is not
16 nearly that intense?

17 A That's correct. It has to do with the unique
18 characteristics of the Gulf system, as compared to the
19 Tampa Electric system.

20 Q Have you followed what's happened as a result
21 of the implementation of that peak responsibility
22 study, or the equivalent peaker methodology adoption in
23 the Tampa Electric case?

24 A I'm not sure of all of the possible
25 ramifications of your question, but I'm familiar with

1 some of the things that have happened subsequent to --
2 (Simultaneous conversation) --
3 subsequent to the implementation of rates based on the
4 peaker study.

5 Q Have you noted that in the TECO system
6 industrial growth has tapered off, whereas in the
7 neighboring utility, Florida Power Corporation,
8 industrial load has grown substantially?

9 A I noted that from 1985 to 1986 industrial
10 energy use on Tampa Electric's system declined
11 substantially. During the same time period, Power
12 Corp's also declined slightly. Since that time I think
13 Power Corp's has grown moderately and that Tampa
14 Electric's has been fairly close to what it was in '86.
15 I don't believe that the conclusion that this is
16 attributable directly to the option of the equivalent
17 peaker method is warranted by all the circumstances
18 surrounding this, however.

19 Q Have you noted the number of industrial
20 consumers that have gone to cogeneration in the Tampa
21 Electric service area as opposed to the other?

22 A I haven't kept an exact count or record of the
23 number that have gone to cogeneration. I know that
24 some have. I know that substantial amounts of load
25 were already planning to go to cogeneration and were,

1 in fact, in the process of installing their
2 cogeneration during the pendency of Tampa Electric's
3 rate case and the related docket, 850246, Tampa
4 Electric's petition for emergency closure of its
5 interruptible service rate class -- rate -- yeah, rate
6 class, that's it.

7 Q When you were back in Economics 101 teaching,
8 and when you were learning your economics, did you ever
9 hear of the phrase "cheaper by the dozen"?

10 A I've heard the phrase. I don't recall whether
11 I heard it in my economics courses.

12 Q What is the significance of that "cheaper by
13 the dozen"? What is the rationale for that comment?

14 A To the ordinary lay person, the rationale for
15 that comment is that if one can sell a substantial
16 volume to a particular customer, the merchant will give
17 a discount.

18 Q Would it be fair --

19 A At least as a marketing ploy.

20 Q Is it not normally, based on cost, cheaper to
21 supply a dozen of something rather than one because you
22 have -- you spread your overhead and things like that?

23 A Probably.

24 Q Would it be fair to say that the EPC method
25 could be characterized as more expensive by the dozen,

1 since if you have more energy consumption you're apt to
2 receive a greater allocation of the production plant?

3 A Only relative to an all-peak demand, or
4 heavily peaked demand weighted cost of service
5 allocation method.

6 Q I don't quite understand that response.

7 A I think if you look at the results of an
8 equivalent peaker study, you will still see that
9 consumers who use large volumes of electricity will pay
10 a lower overall rate per kilowatt hour. It just won't
11 be as low as the overall rate per kilowatt that they
12 may have become used to paying coming out of 12 CP and
13 one-thirteenth cost studies.

14 Q If the rate history and their acceptance --
15 say somebody
16 builds a \$100 million plant in the Gulf service area in
17 anticipation of rates being as they were established
18 when he started construction of the plant, that
19 customer would see a fairly dramatic increase in his
20 rates, would he not? (Pause) If you adopt the EPC
21 study?

22 A He'd see an increase. It may or may not be
23 fairly dramatic, depending on the overall level of
24 revenue requirements approved for the Company. It
25 could be dramatic, I'll certainly grant you that.

1 Q In your analysis for prospective cogenerators,
2 I presume that you have analyzed the cost of -- say you
3 have a customer that is paying the Electric Company \$10
4 million a year. Would you go to that customer and give
5 him an analysis on what cogeneration would do for him,
6 and could he normally make the electricity that he uses
7 for himself at a price lower than the \$10 million a
8 year? Don't know?

9 A Mr. McWhirter, I'm sorry, I lost track of your
10 question.

11 Q That probably was an ineptly-phrased question.
12 Say you have a customer that has a substantial
13 use for steam and an electric bill of \$10 million.
14 Would you say that that customer is a prime candidate
15 for a cogeneration project?

16 A Exactly as you asked the question, yes. A
17 customer with a substantial thermal load and a
18 substantial electric requirement is certainly a live
19 candidate for cogeneration.

20 Q And if you increased his rates even more, he
21 would be a "liver," candidate for it, I would presume?

22 A Sure, it would -- obviously higher electric
23 rates would improve the cost effectiveness of any
24 potential cogeneration.

25 MR. MCWHIRTER: Tender the witness.

1 MAJOR ENDERS: No questions.

2 COMMISSIONER EASLEY: Mr. McWhirter, you're
3 the first attorney that asked every one of my
4 questions.

5 MR. McWHIRTER: I'm sorry --

6 COMMISSIONER EASLEY: Me, too.

7 MR. McWHIRTER: -- that I took you away from
8 that opportunity.

9 CHAIRMAN WILSON: Who wants to go next?

10 MR. PALECKI: Staff will go last.

11 CHAIRMAN WILSON: Mr. Stone?

12 CROSS EXAMINATION

13 BY MR. STONE.

14 Q Mr. Wright, I believe you answered this
15 question but I'm not sure I heard your response. You
16 do not hold yourself out as an expert on system
17 planning from the perspective of an electric utility,
18 do you?

19 A No, sir.

20 Q Have you conferred with any system planners
21 at Gulf Power Company or within the Southern Electric
22 System on the criteria used in planning their
23 generation systems? (Pause)

24 A I was expecting you to ask me the question
25 have I ever had such conferences during the pendency of

1 this rate case, to which the answer is specifically no.

2 Have I ever had conferences or conversations
3 with Gulf Power's planning personnel as to planning
4 practices?

5 Q Specifically, my question was have you
6 conferred with any system planners at Gulf Power
7 Company or within any of the operating companies of the
8 Southern Electric System on the criteria they use in
9 planning their generation systems?

10 A I don't think so. I don't think so. I think
11 I have had conversations with planning personnel in
12 Southern and probably in Gulf, but whether they
13 addressed specifically the criteria they use, I don't
14 recall. I have had conversations with a former member
15 of the Southern Planning Staff as to certain aspects of
16 the planning criteria, particularly the four-hour
17 rolling average peak as it rolls into generation
18 planning.

19 Q Mr. Wright, under the equivalent peaker
20 concept, is there a presumption that a combustion
21 turbine would operate and theoretically replace the
22 load requirements currently provided by coal units?
23 (Pause)

24 A Would you please just simply restate the
25 question?

1 Q Under the equivalent peaker concept, is there
2 a presumption that a combustion turbine would operate
3 and theoretically replace the load requirements
4 currently provided by coal units?

5 A No. The equivalent peaker concept is that if
6 the Utility has to build capacity to satisfy
7 reliability considerations and requirements, that
8 absent a large energy load that the additional capacity
9 would also serve, it would build a peaker. It's not
10 the premise of the peaker method that a combustion
11 turbine would replace a coal unit if a coal unit were
12 the indicated economic choice coming out of the
13 planning analyses, then that's the unit that would be
14 built.

15 Q I believe you've misunderstood my question
16 once again.

17 Specifically, we're asking whether your
18 concept of the equivalent peaker carries with it a
19 presumption that a combustion turbine would operate
20 today and theoretically replace the load requirements
21 currently being provided today out of existing coal
22 units? (Pause)

23 A Are you asking me if you built a peaker
24 today, would it replace all the power that's presently
25 served by a coal unit?

1 Q Let me ask the question from a different
2 perspective, Mr. Wright.

3 Gulf Power Company has adequate generation
4 resources at this time.

5 A Yes.

6 Q Do you agree with that statement?

7 A I've also heard the word "ample" used, but
8 yeah, I'll agree with adequate.

9 Q And for the most part, those are coal units.

10 A I believe your information indicates that
11 about 92% of Gulf's capacity is coal fired. That
12 sounds right to me.

13 Q Under your concept of the equivalent peaker,
14 would that existing capacity that is currently
15 operating to serve the load requirements of the Company
16 and its customers, would a combustion turbine, if it
17 were immediately available today, would it replace and
18 idle that existing embedded capacity?

19 A Is your question if a combustion turbine were
20 immediately available today, would the Utility run it,
21 thereby displacing power that it could otherwise
22 generate from coal-fired capacity? That's what I
23 understood your question to be and if that's your
24 question the answer is no.

25 Well, with the exception that if you're

1 running coal-fired units in a small number of peak
2 hours on cycling duty, you might actually find that
3 it's more economical to run a peaker, but that would
4 fall out of your production cost run.

5 CHAIRMAN WILSON: I'm not sure I understand
6 what the thrust of your question is. Is it that the
7 equivalent peaker methodology ignores embedded plant,
8 embedded costs and embedded decisions?

9 Q Perhaps I can rephrase the question.

10 Under the equivalent peaker concept you only
11 consider the peak hours, is that correct? In
12 determining whether you build a combustion turbine or
13 some other form of capacity?

14 A Under the equivalent peaker concept the
15 methodology recognizes that the utility's reliability
16 considerations, which are generally driven by
17 reliability index values, and some critical number of
18 peak hours drives and determines the utility's need for
19 additional capacity and the timing of the need for that
20 additional capacity.

21 COMMISSIONER EASLEY: Was that a yes?

22 WITNESS WRIGHT: Commissioner Easley, I'm
23 sorry. I don't think -- I'm really not sure the
24 question was straightforward enough to give a "yes" or
25 "no" answer to. I'm trying to explain what the concept

1 of the peaker is.

2 The concept of the peaker is if you've got a
3 short duration peak demand, it will most economically
4 be served by a peaker.

5 COMMISSIONER EASLEY: Well, I heard --

6 WITNESS WRIGHT: And generation expansion
7 planning includes an economic analysis from which the
8 result follows that if there is a lot of load to be
9 served, the Utility will not build a peaker but because
10 of the energy loads to be served, will build a baseload
11 unit instead.

12 COMMISSIONER EASLEY: Do I misunderstand that
13 -- I thought the question was you only consider peak
14 load.

15 WITNESS WRIGHT: For the purpose -- peak load
16 will cause the utility to build a peaker. Therefore, I
17 hold that it's appropriate to allocate the cost of
18 peaking capacity on the basis of peak hours.

19 COMMISSIONER EASLEY: And no other
20 consideration?

21 CHAIRMAN WILSON: All the generation that's
22 generated on peak would be provided by peakers.

23 WITNESS WRIGHT: No. The capital expenditure
24 decision to build a peaking plant would be driven by
25 contributions to peak hours.

1 If the energy load associated with an
2 increase in peak demand were of sufficiently short
3 duration, then it would be served by the peaker. The
4 utility would build a peaker and serve it with a
5 peaker.

6 MR. STONE: Commissioner, I'm ready to
7 proceed on to another.

8 CHAIRMAN WILSON: Go ahead. I'm trying to
9 find what I read here.

10 Q (By Mr. Stone) Mr. Wright, are you familiar
11 with the amount of metered customer generation data
12 that Gulf Power Company has available for its SS
13 customers?

14 A No, sir.

15 Q You have heard in earlier testimony that
16 there are only four SS customers, have you not?

17 A Yes, sir.

18 Q Do you have any reason to dispute that?

19 A No, I don't have any reason to dispute that
20 there are only four SS customers on Gulf's system.

21 Q But you're not aware of when the generation
22 meters were installed?

23 A Your question is am I aware of when the
24 generation meters were installed?

25 Q That is correct.

1 A No, I'm not aware of when the generation
2 meters were installed.

3 Q Assume with me for a moment that on this four
4 customers, you have generation meters. On one of those
5 four customers installed as recently as February 1990.
6 And the next most recent had a generation meter
7 installed in June of 1989. And that there is no
8 generation meter on a third customer of the four. And
9 that the fourth had a generation meter installed from
10 the beginning of its SS service.

11 A Would that be April '88

12 Q Yes. Do you believe that the data that the
13 Company would have available from those generation
14 meters would absolutely be representative of future
15 load characteristics of the Company's SS customers?

16 A As you phrased the question, no, I don't
17 believe it would be absolutely representative of the
18 future standby loads that those customers would be
19 expected to impose.

20 Q Would you also then believe that it would be
21 appropriate to collect more data in order to determine
22 what would be more representative of the future loads
23 of these SS customers?

24 A Certainly. As required by Order 17159.

25 MR. STONE: Commissioner, that's all I'm

1 prepared to do at this time with Mr. Wright.

2 MR. PALECKI: Commissioner, Staff has
3 approximately one hour of cross examination. If we
4 were to start now we would complete our cross at
5 approximately 7:30. Should we proceed?

6 CHAIRMAN WILSON: The sooner you proceed, the
7 sooner we'll be through.

8 CROSS EXAMINATION

9 BY MR. PALECKI:

10 Q Mr. Wright, do the large customers with
11 dedicated substations have a much larger impact on the
12 Company's investment in local facilities than GSD
13 customers

14 A I'm sorry. I maybe misunderstood. Did you
15 say, "Do customers that have dedicated substations?"

16 Q Yes, large customers with dedicated substations.

17 A I'm sure that they cause the Company to spend
18 more in dollars for distribution plant.

19 Q Isn't it true that the local facilities'
20 charges on the standby service rate schedule are much
21 larger for GSD than for PXT customers?

22 Referring to --

23 A Yes, that's true.

24 Q Do all of the PXT customers have dedicated
25 substations?

1 A I believe so.

2 Q The Company has classified uncollectible
3 accounts expense as customer-related and allocated it
4 to the RS, GS and GSD classes on average number of
5 customers. Doesn't classifying these costs as
6 customer-related mean that for a particular rate class
7 a customer with a small bill will pay just as much
8 uncollectible expense as a customer with a large bill?

9 A Yes, It does. Well, to be perfectly clear,
10 it means that the customer will be allocated as much
11 uncollectible expense as the customer with the large
12 bill. If those costs are tracked through into rate
13 design, then your statement is true. If rates are set
14 at unit costs and the unit costs include the cost per
15 customer for uncollectible expense on a one-for-one
16 basis, then the answer to your question is "Exactly,
17 yes."

18 Q If the account of a customer becomes
19 uncollectible. wouldn't a customer with a large bill
20 cause the Company to incur more uncollectible expense
21 than a customer with a small bill?

22 A Yes.

23 Q And because the expense was classified as
24 customer-related and allocated on average number of
25 customers, would not an RS customer with a small bill

1 pay just as much uncollectible expense as an RS or GSD
2 customer with a large bill?

3 A I missed a few words in the first clause of
4 your question. I think the answer is yes, but if you
5 wouldn't mind repeating it, I would appreciate it.

6 Q And because the expense was classified as
7 customer-related and allocated on average number of
8 customers, would not an RS customer with a small bill
9 pay just as much uncollectible expense as an RS or GSD
10 customer with a large bill?

11 A Yes.

12 Q Would it be more equitable to allocate the
13 uncollectibles between and within classes on revenues
14 and classify it as revenue-related?

15 A That's my opinion, yes, sir.

16 To give a little anecdote on that, we saw
17 that was appropriate in Tampa Electric's case in 1985
18 where in the test year they had had a very large
19 customer enter bankruptcy, leaving Tampa Electric with
20 an uncollectible expense for a large industrial class
21 interruptible, I think, of between 1 and \$2 million.

22 Q In the Company's last rate case, fuel stock
23 of an average daily burn for 107.5 days of 933.9 tons,
24 based on the annual kWh to be generated, was approved.
25 Since the level of fuel stock is a function of kWh to

1 be burned in the test year, should fuel stock be
2 classified as energy-related?

3 A I believe so.

4 Q The Company has removed the kWh used by SE
5 customers during SE periods which results in a higher
6 unbalanced 12-CP load factor of 107% than the 101%
7 unbalanced 1987 load factor if the kWh had not been
8 included.

9 If the Company has forecast the same, or
10 smaller, percentage of kWh to be used during SE periods
11 in 1990 compared to 1989, and a much larger percentage
12 in both 1989 and 1990 than in 1987, shouldn't there be
13 an improvement in the SE/PXT customers' actual 1989
14 12-CP load factor compared to the 1987 load factor if
15 the Company's assumption of a changed load pattern and
16 higher 12-CP load factor to the exclusion of the SE kWh
17 in the demand calculation is appropriate and justified?

18 COMMISSIONER EASLEY: You're kidding.

19 (Laughter) Just say yes or no, it wouldn't make any
20 difference. (Laughter)

21 WITNESS WRIGHT: Mr. Chairman, I'm sorry,
22 that was really too long for me to follow. I was going
23 to ask my attorney if it might be appropriate and fair
24 to ask Staff to submit that question, and those like
25 it, in writing so I could look at it and reflect on it

1 to give an answer. It's just too much to follow, I'm
2 sorry.

3 MR. PALECKI: We'll omit that.

4 CHAIRMAN WILSON: His problem is we all
5 followed it. He's the only one in the room that didn't
6 know what he was talking about. (Laughter)

7 COMMISSIONER EASLEY: That's why I was so
8 surprised. (Laughter)

9 Q (By Mr. Palecki) On Gulf's current standby
10 service tariff, daily standby service kW is the maximum
11 totalized customer generation output occurring in any
12 interval between the end of the prior outage and the
13 beginning of the current outage, minus the customer's
14 daily generation output. And we'll refer you to the
15 page of the MFR so we can all look at it. (Pause)

16 My question is would it be more appropriate
17 to have standby power equal to the amount of load in kW
18 ordinarily supplied by the customer's generation, minus
19 the customer's generation output in kW, minus the
20 amount of load in kW, as direct result of customer's
21 generation outage?

22 A I think you left out a word. I think you
23 meant to ask me wouldn't it be better to define standby
24 power as the load ordinarily served by customer
25 generation, minus the amount of customer generation

1 during an outage, minus the amount of load that the
2 Utility does not have to serve as a direct result of
3 the customer's generation outage?

4 Q Yes, that's the question we would have liked
5 to have asked you.

6 A The answer is yes, and that's exactly what's
7 prescribed -- well, at least conceptually, and I think
8 specifically what's prescribed by Order 17159.

9 Q Thank you. How would you resolve the problem
10 that the compliance cost of service study won't be
11 completed before the final agenda conference and we
12 will not be able to use system unit costs at the
13 approved system rate of return to determine the actual
14 increase to standby service and the standby service
15 rates in accordance with Order 17159? (Pause)

16 A The best answer I've got is that, if it were
17 at all possible, I would reschedule the rate design
18 agenda to accommodate the compliance studies schedule.
19 Failing that, my recollection from when I worked in
20 rates, and I didn't work specifically on this matter,
21 but my recollection from when I worked in rates is that
22 there has been developed a methodology that has been
23 supported by Company witnesses, including those for
24 Tampa Electric and Florida Power Corporation, for going
25 from unit costs indicated by the existing cost studies

1 to those in the compliance study based on the overall
2 revenue requirement level. My recollection is that
3 that methodology will get you about as close as you can
4 get, and that's what has been done in the past.

5 Q Did you write the April 23, 1987,
6 recommendation in Docket 850102-EI that's been
7 stipulated into evidence as Exhibit 519?

8 A Yes, sir, I did.

9 Q In the recommendation, one of the conditions
10 for permanent approval of the SE rider was that the SE
11 rate should be a separate rate class effective with the
12 Company's next rate. Did you recommend that condition
13 for approval to assure proper allocation and recovery
14 of demand-related production and transmission costs and
15 of local transmission and distribution costs for SE
16 customers?

17 A Yes. I did. We did.

18 Q Has your position in this condition for
19 permanent approval of the SE rider changed?

20 A No, sir.

21 Q The last sentence on Page 8 of the
22 recommendation states that, "Staff has discussed this
23 concern with Gulf personnel and they agree that they
24 will treat the SE customers as a separate rate class in
25 the Company's next rate case."

1 What was the basis for this statement?

2 A Conversations that we had with Gulf's rate
3 personnel. We had expressed concerns specifically that
4 there could be an underrecovery of distribution costs
5 and potentially also an underrecovery of production and
6 transmission costs that would, by a cost analysis,
7 properly be attributed to the supplemental energy
8 customers. And, basically, the Company didn't want to
9 address that issue at that time. They said, "That's an
10 issue that's appropriate for a rate case."

11 We said, "Well, it doesn't look like
12 there's going to be any harm done. You guys are giving
13 up some money in the meantime to the degree that there
14 is an underrecovery. And if you don't want to ask for
15 the money, I guess we're not going to make you take
16 it."

17 We did make clear, I believe, our position
18 that the rate should be redesigned based on
19 considerations of local facilities costs, and also
20 based on considerations of potential differences
21 between the peak demand kW characteristics and the
22 billing demand kW characteristics of SE customers, as
23 opposed to those in the general LP and PX rate classes.

24 So we expressed that. My recollection is
25 that the Company said they didn't want to do it then.

1 They agreed that if we were going to do it, we'd do it
2 in a rate case, and we all agreed to address it then.

3 Q Does Order No. 17568 in that docket require
4 that SEs shall become a separate rate class in the
5 Company's next rate case?

6 A Yes, sir, at Page 2, third paragraph.

7 MR. PALECKI: We would ask that the
8 Commission take notice of its Order No. 17568 in Docket
9 No. 850102-EI.

10 CHAIRMAN WILSON: We will take notice.

11 Q (By Mr. Palecki) Do you remember making a
12 verbal agreement with the Company not to make the SE a
13 separate rate class for either cost of service or rate
14 schedule purposes in any preliminary conference
15 regarding the MFRs in that docket or in docket
16 881167-EI?

17 A No, sir, I don't recall making any such
18 statement, and, furthermore, I note that I was aware
19 that I would not have had the authority to make such
20 statement. That would have involved my personally
21 overriding a Commission's order, and I knew well from
22 a previous matter relating to Gulf and its
23 administration of its supplemental energy rate that
24 that was not within my province to do. So I'll spare
25 you the anecdote in the interest of time.

1 Q Thank you. We'd like to refer you to Exhibit
2 517, Gulf's response or revised response to this
3 interrogatory shows that five of Gulf's six SE
4 customers have dedicated substations, three of them
5 built in 1989. And Gulf's response to Interrogatory
6 No. 139 of Staff's Eighth Set shows PXT customers
7 taking service on the SE rider were billed only 59% of
8 their maximum metered kW.

9 MR. BURGESS: Excuse me, Mr. Palecki.

10 Mr. Wright do you have a copy of that exhibit?
11 I was going to try to get ours and bring it over if you
12 don't have it.

13 WITNESS WRIGHT: I am not sure whether I have
14 Exhibit 517. I have a revised Item No. 139, Staff's
15 Eighth Set dated June 11th, 1990. But, I don't know
16 whether that has been specifically identified as
17 Exhibit 517.

18 MR. PALECKI: We have copies of that exhibit
19 we will provide to the witness.

20 WITNESS WRIGHT: Thanks. (Pause)

21 Q (By Mr. Palecki) We'd refer you specifically
22 to Line 4-A under PXT customers on the SE rider.

23 A Okay. On Page 2 of 4?

24 Q On Page of 2 of 4.

25 A Okay.

1 Q Do these stacks indicate that there is an
2 underrecovery of substation costs from customers taking
3 service on the SE rider, particularly PXT customers
4 taking service on the SE rider? (Pause) Referring to
5 Page 3 of 4 of that exhibit, specifically Line C-4a,
6 Ratio of Billed Maximum kW to Actual Maximum kW.

7 A Uh-huh.

8 Q We would point out that PXT customers not on
9 the SE rider were billed 100% of their maximum metered
10 kW. And you're question is whether these facts
11 indicate whether there is an underrecovery of
12 substation costs from customers taking service on the
13 SE rider, particularly PXT customers taking service on
14 the SE rider. (Pause)

15 A It depends a little bit on the -- on the steps
16 in the cost study, but I believe that this information
17 indicates that, assuming direct assignment of the
18 substation cost to the classes, it shows that the
19 customers not on the SE rider are paying on a 1-for-1
20 -- 1-to-1 basis, billed kW to maximum, that customers
21 on the SE rider are only paying .59 of a kW, billing
22 kW, for each kW of maximum demand they actually incur.
23 Assuming, as I think it would be reasonable to do, that
24 there's a relationship between actual maximum kW and
25 cost to serve on a per kW basis, or to the costs

1 allocated to the class on a per kW basis, then I think
2 the conclusion that you suggest is correct.

3 Q I'd like to refer you to exhibit -- I'd like
4 to refer you to Exhibit 480, which is MFR Schedule
5 E-8a, and Industrial Intervenor's Second Set for
6 Production of Documents. Is that one of the exhibits
7 that you have?

8 MR. BURGESS: Which one?

9 MR. PALECKI: 480. We'll provide the witness
10 with that exhibit.

11 Q (By Mr. Palecki) We'd refer you to Line 20,
12 which shows that the unit of cost for distribution
13 demand-related costs for the PXT class at present rates
14 is 70 cents. The present PXT maximum demand charge is
15 \$3.56. When a maximum demand charge for a class is
16 higher than the distribution unit costs or costs other
17 than distribution system are local facility costs being
18 recovered through the maximum demand charge?

19 A Yes.

20 Q Because costs other than distribution or local
21 facility costs are being recovered through the maximum
22 demand charge, does the fact that on average SE PXT
23 customers are billed only -- on only 59% of their
24 maximum meter kW mean that there is currently
25 underrecovery of other types of costs from SE PXT

1 customers?

2 A When you say "other types of costs," do you
3 mean costs other than local facilities or distribution
4 costs?

5 Q Correct.

6 A Again, you have to assume, and I think it's
7 reasonable to do so, that there is some relationship
8 between the costs that are allocated to the class and
9 maximum metered kW. To the degree that that
10 relationship exists, then again, your conclusion or
11 your suggested conclusion is correct. There is an
12 underrecovery problem.

13 Q Does it depend on the rates of billing kW to
14 12 CP kW for SE customers versus non-SE customers?

15 A As relates to production and -- excuse me, as
16 relates to demand-related production and transmission
17 costs, that should be the case.

18 Q The Company has had four or less customers on
19 PX, PXT for approximately the last ten years. The
20 Company has time recording, load research meters on all
21 the PX/PXT customers. Should there be any problem with
22 the meaningfulness of the cost of services analysis for
23 the PX/PXT class?

24 A No. Specifically, no, in that you've got
25 population data, not sample data.

1 Q Would that also be true with a breakout of SE
2 customers, that is if they all have time recording
3 meters?

4 A That should be true. I'm not sure -- my
5 understanding is that Gulf now has six customers on the
6 SE rider as it presently stands. There might be some
7 discrepancy in the representativeness of data, if
8 there's some anomaly in the newest customer or
9 customers' consumptions since they came on the rate.
10 But overall, again, you've got population data and it
11 should be meaningful.

12 Q Are the kWh and capacity used by SE customers
13 interruptible?

14 A No, not in any sense in which the term
15 "interruptible" is used as a rate design term of art by
16 this Commission or anywhere else that I am aware of.
17 Interruptible means and was explicitly defined to mean
18 by this Commission in its nonfirm service terms and
19 conditions rule, service that is interruptible, subject
20 to being turned off by the electric utility at its
21 discretion.

22 In other places interruptible does mean what
23 we in Florida call curtailable, that is it's subject to
24 a demand for curtailment by the utility, but neither of
25 those cases applies to SE. If the customer wants to

1 continue to use his load during a non-SE period, he's
2 free to do it. He just pays the rates.

3 Q If the revenues in the rate case at the
4 present rates are based on the rates of the class in
5 which the customer is currently taking service or
6 migrating from, isn't this an assignment to the
7 migrating customer of the cost of the class in which
8 they're taking service before migration?

9 A I'm sorry, Mr. Palecki, I missed a few words
10 in the opening section of that question. If you could
11 repeat it, I'd appreciate.

12 Q If the revenues in the rate case at the
13 present rates are based on the rates of the class in
14 which the customer is currently taking service or
15 migrating from, isn't this an assignment to the
16 migrating customer of the cost of the class in which
17 they are taking service before migration?

18 A Yes, I believe so.

19 Q If we know that a given change in the rate
20 structure of two classes -- if we know that given a
21 change in the rate structure of the two classes, it is
22 cost effective for the customer to migrate to another
23 class, do we know that the cost to serve of the
24 migrating group of customers is that of either the rate
25 class from which it is migrating or the class to which

1 they are migrating?

2 A No.

3 COMMISSIONER EASLEY: Then I didn't understand
4 the preceding question. When you said "yes," I thought
5 you were saying that the assignment was to the
6 migrating customer prior to migration.

7 WITNESS WRIGHT: I believe the preceding
8 question had to do with the revenues of the customer,
9 and the last question had to do with the actual cost to
10 serve the customer.

11 COMMISSIONER EASLEY: All right. Then you're
12 right, I didn't understand it. Thank you.

13 Q (By Mr. Palecki) Will the cost of service
14 have been run for the group of migrating customers to
15 determine their actual cost to serve three or four days
16 after the first agenda when the final design of rates
17 must be complete?

18 A That depends on several things, including what
19 all the cost analyst, Mr. O'Sheasy, has to do. It may
20 have been in response to an unrelated question, but I
21 thought this morning he indicated that it might be
22 possible to get the cost of service study done in a
23 couple of days if there were not extensive revisions
24 required. I believe that I understood Mr. O'Sheasy to
25 say that this morning.

1 Q Is it quite probable that the cost to serve of
2 a group of migrating customers is somewhere between the
3 cost to serve each of the two involved classes?

4 A That makes intuitive sense to me. I would
5 think it would be true.

6 Q Is it fair and reasonable to require either
7 the class to which they are migrating or from which
8 they are migrating to absorb the entire shortfall when
9 we don't know what the actual cost to serve of these
10 customers is?

11 A Probably not.

12 Q Is splitting the shortfall due to the
13 migration between the two involved classes on the
14 revenues of the two classes a reasonable and fair
15 method given that we don't know the cost to serve on
16 the migrating customers?

17 A I would say so, particularly given your
18 assumption that you don't know the cost to serve, which
19 in turn, I believe, assumes that you haven't been able
20 to redo the cost of study with the migrating customers'
21 cost factors incorporated into the class in which they
22 migrate.

23 Q Are you aware of any more equitable method?

24 A No.

25 MR. PALECKI: Commissioners, Staff has omitted

1 quite a few of its questions and we have no further
2 questions at this time.

3 CHAIRMAN WILSON: Questions, Commissioners?

4 MR. BEARD: Just one.

5 COMMISSIONER EASLEY: I have one.

6 CHAIRMAN WILSON: Redirect?

7 REDIRECT EXAMINATION

8 BY MR. BURGESS:

9 Q Mr. Wright, you were asked a number of
10 questions, first by Mr. McWhirter and then by Mr. Stone
11 about whether you had performed any system planning
12 analysis for utilities. Do you recall those questions?

13 A Yes, sir.

14 Q Do you have any knowledge of the actual system
15 planning mechanisms undertaken by the utilities?

16 A At least some general and somewhat specific
17 knowledge on how they plan, gleaned from planning
18 documents submitted to this Commission, from
19 conversations with utility personnel, from
20 conversations with system planning staff here at the
21 Commission and so on.

22 Q Do you have any particular knowledge about
23 the specific system planning criteria used by Gulf
24 Power Company or Southern Company?

25 A Not so much as to the specific system

1 planning criteria, but as to their generation expansion
2 planning process and how it incorporates reliability
3 analysis and economic analysis along the lines that
4 I've represented, are fairly standard for utilities.

5 Q And what knowledge do you have with regard to
6 the generation expansion planning of either Southern
7 Company or Gulf Power Company?

8 A Well, a review of the Southern Company's
9 Generation Expansion Planning Document submitted to
10 this Commission in the annual planning hearing, 890004,
11 to quote from it, "Generation expansion planning on the
12 Southern Electric System has consistently been
13 characterized by optimized coordinated planning. The
14 Southern coordinated optimized planning process begins
15 with the long-term load forecast to the individual
16 operating companies. In technology screening, the next
17 step in the process, all reasonable technology options
18 for future generation additions are evaluated and
19 screened. Using the select list of generating
20 technologies developed by this screening process --"

21 COMMISSIONER GUNTER: Shef, you can read
22 faster than the court reporter can possibly keep up
23 with you.

24 WITNESS WRIGHT: Thank you, Commissioner.

25 "Using the select list of generating

1 technologies developed by the screening process the
2 construction costs, operating costs and operating
3 characteristics of the candidate units are then input
4 into the Generation Expansion Optimization Program.

5 "The program then internally generates a
6 large number of schedules of unit additions which
7 satisfy reliability and load requirements. The revenue
8 requirements associated with these additions, as well
9 as fuel and other operating costs, are then calculated
10 for each year for each of the plants.

11 "Using present worth of revenue requirements
12 as the economic criterion, the program identifies the
13 optimum expansion plan which minimizes these future
14 costs." This is exactly the economic analysis stage or
15 phase of generation expansion planning to which I have
16 referred throughout my testimony.

17 The documents goes on: "This present worth
18 of revenue requirements has two components: One is the
19 cost of future capital additions required; the other is
20 the production cost of serving all the load in all the
21 years of the study on a system basis."

22 I find in this sound support for my
23 proposition and proposal to use system energy at the
24 generation level as the appropriate allocation factor
25 for allocating energy-related production plant costs.

1 Q You read from a document, as I understand it,
2 that you said was used in Docket No. 890004, is that
3 correct?

4 A Yes, sir.

5 Q Would you tell me what document that was?

6 A The document is entitled "1989 Planning
7 Hearing, Generation Expansion Planning Document,
8 Southern Electric System." Actually when it was filed
9 it was in Docket No. 880004-EU-A, September 1, 1988. I
10 believe by the time it got to the hearing it was
11 890004-EU-A.

12 Q And by whom was it filed?

13 A It says Southern Electric System. It says
14 "This document was prepared by the System Planning
15 Department of Gulf Power Company."

16 Q You were asked by Mr. McWhirter whether there
17 had been some reduction in industrial usage of
18 electricity in the Tampa Electric Company area, and as
19 I recall you said it was not warranted; the conclusion
20 that this was attributable to the equivalent peaker
21 methodology was not warranted. Could you tell me why?

22 A Yes. In the first place, a substantial
23 reduction in industrial energy consumption on Tampa
24 Electric's system was not an unusual event. From 1981
25 to 1982 there was a decline in industrial energy

1 consumption on TECO's system by some 723,000 megawatt
2 hours. This was about a fourth less than the amount of
3 production observed from 1985 to 1986.

4 Second, a lot of this load was going off the
5 system anyway. Tampa Electric knew that numerous of
6 their customers with lots of load were already in the
7 process of installing cogeneration or evaluating it or
8 planning to install it during the pendency of the rate
9 case.

10 Why was the load going off Tampa Electric
11 system anyway? Because Tampa Electric's rates were
12 going up a whole bunch anyway. That rate case was held
13 for the primary purpose of including, or getting into
14 Tampa Electric's rate base, its newest and largest
15 generating unit, Big Bend 4. The addition of Big Bend
16 4 to Tampa Electric's rate base resulted in the
17 increase in TECO's rate base of more than 55%.

18 I submit, and I believe that this was
19 testified to by TECO witnesses during the course of the
20 companion docket to 850050, the companion docket being
21 850246, that a lot of this cogeneration departure of
22 flight was stimulated by the impending addition of Big
23 Bend 4 into TECO's rate base.

24 TECO's rates are very high anyway. According
25 to the latest published addition of the Florida Public

1 Service Commission's Report, Statistics of the Florida
2 Electric Utility Industry, in December '88, the most
3 recent data reported in the document, Tampa Electric
4 had the highest rates of all Florida investor-owned
5 utilities for all categories of customers, not just
6 industrial but commercial and industrial as well.

7 Finally, I think you need to look at what
8 would have happened anyway had the Commission not used
9 the peaker study?

10 In this context it's appropriate to recognize
11 that the IS-1 and IS-3 rates implemented by the
12 Commission following the Equivalent Peaker Cost Study
13 were significantly and substantially less than the
14 rates proposed by Tampa Electric Company for these
15 classes in the rate case. In the course of looking at
16 this issue I happened to prepare a little table, my
17 attorney has copies to pass out, as to the rates before
18 the case, the rates implemented using the peaker
19 method, and the rates proposed by Tampa Electric.

20 Do you guys want to pass that out?

21 MR. BURGESS: We're working on it.

22 COMMISSIONER GUNTER: Okay. I thought maybe
23 you missed a cue.

24 MR. BURGESS: No, we just picked up the wrong
25 set of documents.

1 COMMISSIONER BEARD: Shef, you said that TECO
2 had the highest rates in all rate class?

3 WITNESS WRIGHT: All rate categories,
4 residential, commercial and industrial categories as
5 distinguished from RS, GS, GSD, GSLD and the IS rate
6 classes.

7 COMMISSIONER BEARD: And the latest data you
8 have is December of '88.

9 WITNESS WRIGHT: The Study was published in
10 '89; the data reported in the Study was December of
11 '88.

12 COMMISSIONER BEARD: We get these things
13 monthly with some published residential rates, at
14 least, on average. And the residential certainly
15 doesn't show TECO to be above.

16 CHAIRMAN WILSON: That data you have is as of
17 December 1988?

18 WITNESS WRIGHT: I think it's December 31,
19 '88.

20 CHAIRMAN WILSON: There have been rate
21 reductions since then.

22 WITNESS WRIGHT: Yes, sir.

23 CHAIRMAN WILSON: So that relationship may
24 not, in fact, hold.

25 WITNESS WRIGHT: It may not.

1 MR. BURGESS: Commissioner, the question was
2 whether this was likely the variable that drove the
3 industrials into cogeneration.

4 CHAIRMAN WILSON: I know. He went far beyond
5 answering that to saying something that I don't think
6 is correct anymore. It may have been correct in 1988
7 but it's not today.

8 COMMISSIONER BEARD: You might want to even
9 discuss the migration or failure of migration of FPL,
10 that if FPL is now higher, but we didn't go quite that
11 far, did we?

12 CHAIRMAN WILSON: I have this picture when
13 you talk about migration, of these nomadic hordes
14 driving their sheep or deer across the great Arctic
15 wastelands of north Florida.

16 MR. BURGESS: You mean that's not what we
17 have been talking about?

18 COMMISSIONER BEARD: A bunch of little cogens
19 migrating across the county line. (Laughter)

20 WITNESS WRIGHT: To get right to it, Tampa
21 Electric's Director of Rates, Mr. Campbell, during the
22 case in '85, proposed rates for their Interruptible
23 Service 1 class, the then existing class, that were
24 approximately a third higher in the energy charge than
25 those implemented by the Commission following the

1 peaker method, and nearly twice as high in the demand
2 charge than those implemented by the Commission
3 following the peaker method.

4 For the IS-3 class, which is a new class
5 created as a result of that case, the energy charge was
6 slightly higher than that implemented by the Commission
7 following the Peaker Cost Study, and the demand charge
8 was more than three times, in fact, nearly four times
9 as much as that implemented by the Commission.

10 The numbers are right there on the page and
11 they are from testimony and exhibits of Mr. Campbell in
12 850246.

13 MR. BURGESS: Mr. Chairman, could -- excuse
14 me, before we go further, could I get an exhibit
15 number?

16 CHAIRMAN WILSON: Yes, this would be Exhibit
17 No. 607.

18 MR. BURGESS: Thank you.

19 (Exhibit No. 607 marked for identification.)

20 Q (By Mr. Burgess) Excuse me, I'm sorry, I
21 didn't mean to cut you off, Mr. Wright. Would you
22 please continue your response.

23 A The point is that the totality of the
24 circumstances I think indicate that there are a whole
25 lot of other things going on to cause the reduction in

1 Tampa Electric's industrial load. I don't believe that
2 a conclusion that the shift in industrial load or
3 decline in industrial load on TECO's system was
4 attributable to the adoption by this Commission of the
5 equivalent peaker cost method.

6 Q Let's suppose the full inference of Mr.
7 McWhirter's questions. Let's suppose there is a
8 migration or some movement to cogeneration or some
9 other reduction in usage by the industrials as a result
10 of implementing the particular cost of service study.
11 If the Commission determines that that cost of service
12 study accurately reflects the cost, should they shy
13 away from it because it might reduce industrial usage
14 or some of the other effects Mr. McWhirter questioned
15 you on?

16 A Not in my opinion. If the Commission is
17 particularly concerned about such effects, I think it
18 already has in place transition rules for smoothing the
19 effect of rate increases, rate decreases, or of shifts
20 in cost allocation methods that are more than adequate
21 to address such concerns.

22 COMMISSIONER BEARD: Let me ask you a
23 question. As a general policy in ratemaking, if we
24 have the appropriate cost study, we should be migrating
25 towards that plus whatever portion of contribution is

1 deemed appropriate, as opposed to migrating away from
2 that? In other words, if you have cost is X and you're
3 here, you don't want to be going this way, do you?

4 WITNESS WRIGHT: That's exactly right.

5 COMMISSIONER BEARD: You want to go this way.

6 WITNESS WRIGHT: Yes, sir.

7 COMMISSIONER BEARD: And that's applicable
8 probably in any industry that is regulated by this
9 Commission?

10 WITNESS WRIGHT: I believe so, yes, sir. The
11 cost ought to iterate toward cost base rates. In the
12 long run, you ought to be right on it. That's my
13 opinion and my testimony.

14 Q (By Mr. Burgess) Mr. Wright, you were asked
15 some questions by Mr. Stone and then followed up by
16 Commissioners Easley and Wilson with regard to the
17 building of plant to meet peak. I'm not sure I recall
18 the specific questions, but I think I can follow up
19 with the question: Is it correct that a Utility needs
20 to build enough capacity to meet its peak demand?

21 A Yes. It is.

22 Q If a Utility -- if meeting the peak demand
23 were the only consideration that a Utility had to think
24 about in order to build, what kind of plant would the
25 Utility most likely build?

1 A I'm afraid your question may be a little bit
2 incomplete, because the Utility determines what type of
3 plant to build based on the energy load expected to be
4 served.

5 Q Suppose --

6 A Expected to be served. If your question is
7 do they have to meet the peak demand in a very small
8 number of hours or a relatively small number of hours,
9 what kind of unit would they build?

10 Q My question is suppose there were only a
11 single peak to be met and no other energy to be sold
12 any other time of the year, what kind of unit would
13 they build?

14 A I would think they would build the least
15 expensive unit they could, and that would probably be a
16 combustion turbine or possibly a diesel engine or
17 something like that.

18 Q What if they were going to meet 12 different
19 peaks and there was no other energy usage any other
20 time, what kind of units would they likely build then?

21 A One each month? One peak each month?

22 Q Yes.

23 A They would probably build a peaker.

24 Q Why is that, why would they build a peaker?

25 A Because the operating -- because the capital

1 cost of peaking units are so small relative to the
2 capital costs of intermediate and baseload units that
3 when they only operate a small amount of the time --
4 that is, when there is only an energy load to be served
5 in a small number of hours, it's the economic choice
6 for the Utility to use a peaking unit rather than for
7 it to spend the capital costs for an intermediate or
8 baseload unit.

9 Q Well, but very often Utilities don't build
10 peaking units, they build baseload units. Why would
11 they build baseload units if it's cheaper to build a
12 peaking unit?

13 A Because frequently the addition of a baseload
14 unit to the Utility's system will provide the lowest
15 total revenue requirements over the planning horizon.
16 The lowest -- it's the unit that will be indicated in
17 consideration of all cost characteristics, both capital
18 costs and operating costs. It falls out of the
19 economic analysis component of the Utility's generation
20 expansion planning process.

21 Q Well, does that suggest that the amount of
22 cost to incur in building a plant is driven by
23 something more than just the need to meet a single peak
24 or 12 single peaks?

25 A Exactly. That's the exact premise of the

1 peaker study, peaker methodology approach.

2 MR. BURGESS: Thank you, Mr. Wright, that's
3 all we have on redirect.

4 CHAIRMAN WILSON: Do we have any -- we have
5 607.

6 MR. BURGESS: Yes, sir, I would ask that the
7 Commission take into evidence Exhibits 350 through 353
8 and Exhibit 607.

9 CHAIRMAN WILSON: 350 through 353 have been
10 stipulated, have they not?

11 MR. BURGESS: Yes, sir, correct.

12 MR. McWHIRTER: Mr. Chairman, I want to take
13 the witness on voir dire with respect to Exhibit 607.

14 CHAIRMAN WILSON: All right. This will be an
15 abbreviated version of the prior voir dire you did?

16 MR. McWHIRTER: I'm extremely hopeful in that
17 respect.

18 CHAIRMAN WILSON: Okay.

19 VOIR DIRE EXAMINATION

20 BY MR. McWHIRTER:

21 Q Mr. Wright, the rates proposed by TECO in the
22 center column, and let's just use the IS-1 rate, those
23 were proposed by TECO at the outset of the case?

24 A No, sir, it was during the case.

25 Q It was during the case?

1 A Yes, sir.

2 Q And as I recall, TECO was asking for a rate
3 increase of \$125 million?

4 A I don't recall the total amount of the
5 increase that the Company was requesting.

6 Q Well, assume, subject to check, that they
7 were asking for \$125 million. These rates would have
8 derived the IS-1 customers' share of that, isn't that
9 correct?

10 A It would certainly have derived the IS
11 customers' share of previous revenue requirement plus
12 the requested increase in the sense of revenues that
13 the Company was asking for.

14 Q Now in your third column, the one that the
15 equivalent peaker methodology derived, was based on the
16 final increase granted to Tampa Electric, isn't that
17 correct?

18 A I think that's true.

19 Q And isn't it true that the final increase
20 granted to Tampa Electric Company was in the range of
21 \$25 million, which was some 80% less than the TECO
22 requested?

23 A I thought it was more than \$25 million, but I
24 don't recall.

25 Q So essentially the rates in the middle column

1 are the rates required to get one amount of revenue and
2 the rates in the other column are the amount of money
3 that you need to get a substantially lesser sum of
4 revenue.

5 A Well, I don't think that's exactly right.
6 Mr. Campbell proposed these rates based on some value
7 of service considerations. I believe that these rates
8 proposed by Mr. Campbell were in fact substantially
9 higher than those that the Company originally proposed
10 at the outset of the case and were driven by the
11 perception by Tampa Electric Company that certain
12 customers were attempting to take unfair advantage of
13 the interruptible rates.

14 Q I understand that they changed the rate
15 structure with respect to these customers. But those
16 rates would derive this customer's share of a
17 substantially larger revenue requirement than the one
18 that was actually granted?

19 A Because of the timing of the two different
20 proposals that Tampa Electric made during the case for
21 interruptible rates, I'm not sure that's true. Surely,
22 these rates, these rates would have generated -- well,
23 they would have generated whatever revenue they would
24 have generated.

25 CHAIRMAN WILSON: But isn't that extremely

1 relevant to understanding the relationship of these
2 rates, what revenue that they would draw?

3 WITNESS WRIGHT: To some extent. But to the
4 extent that the rate proposals by Tampa Electric
5 weren't exactly cost-based but were driven by long-term
6 historical value of service pricing considerations,
7 which is exactly what was driving them, I think it's
8 less relevant.

9 CHAIRMAN WILSON: Well, revenue requirement
10 is a large portion of that driver, is it not? And if
11 the revenue requirement is as disparate as Mr.
12 McWhirter has represented it to be, then these numbers
13 in fact are not very comparable, are they?

14 WITNESS WRIGHT: If the rate revenue
15 requirement numbers are as disparate as he represents,
16 then then they are less comparable, yes.

17 COMMISSIONER BEARD: Let me take a little
18 different tact, though. If I am a phosphate person out
19 there thinking about cogeneration, do I in fact really
20 care what the revenue requirement derived by TECO is or
21 do I care about what my costs are going to be?

22 WITNESS WRIGHT: I think you care about what
23 your final bottom line rates are going to be.

24 COMMISSIONER BEARD: That's what I would, if
25 I was in business, you know, the fact that it's 25% or

1 50% of the revenue requirement, what I care about is
2 what do I have to pull out of my wallet, I would
3 assume.

4 CHAIRMAN WILSON: For the purposes, it seems
5 to me, and correct me if I'm wrong. For the purposes
6 of this illustration, you've got to know what revenue
7 requirement is driving either one of these.
8 Theoretically, you could have those rates proposed by
9 TECO could have generated 100% of the increased revenue
10 that they were asking for. It could have derived \$25
11 million.

12 COMMISSIONER EASLEY: Was there any point --

13 CHAIRMAN WILSON: That, I don't want to, I'm
14 not testifying --

15 COMMISSIONER EASLEY: I'm sorry.

16 CHAIRMAN WILSON: -- I just want to know that
17 in fact the revenue requirement is essential to putting
18 the apparent representation that this exhibit has, to
19 put it in perspective, you need to know what the
20 revenue requirement that drove -- that those numbers
21 drive or that drive these numbers?

22 WITNESS WRIGHT: Yes, it's certainly at least
23 an important, important determinant.

24 Additionally, though, Tampa Electric was
25 asking for rates, rate increases to the interruptible

1 class specially, more or less given the timing of the
2 events, separate from the overall revenue requirement.
3 They were asking for rates geared against -- geared to
4 value of service pricing principles and discounts from
5 the indicated firm service rates.

6 But you're right, it certainly had something
7 to do with it.

8 CHAIRMAN WILSON: Commissioner Easley?

9 COMMISSIONER EASLEY: I was going to ask if
10 during this proceeding, since the equivalent peaker
11 method was eventually used, apparently, was there any
12 evaluation of the rates requested by TECO for the
13 interruptible service using the equivalent peaker
14 method in order to make the comparison prior to the
15 reduction in the revenue requirement and, therefore,
16 reduction in the rate?

17 MR. BURGESS: You're asking was there
18 something that designed the rates that would show this
19 for what TECO's method would have done for the actual
20 rate increase?

21 COMMISSIONER EASLEY: Yes. Was there a
22 calculation prior to the reduction in the revenue
23 requirement and therefore prior to that reduction in
24 the rates?

25 MR. BURGESS: It was not actually a reduction,

1 it was a reduction in the increase sought. It was
2 actually an increase.

3 COMMISSIONER EASLEY: It was a reduction in
4 the increase. That would allow you to see what the
5 effect of equivalent peaker method on a like revenue
6 requirement would be?

7 MR. McWHITER: Not a right revenue
8 requirement, but comparable.

9 COMMISSIONER EASLEY: Like. Like revenue
10 requirement.

11 WITNESS WRIGHT: I think that probably would
12 have been available in the cost studies in the case.

13 COMMISSIONER EASLEY: But you didn't go back
14 when you were preparing this to try and make that
15 comparison? Okay.

16 COMMISSIONER BEARD: Well, I get to ask a
17 little bit here because I'm confused. A company comes
18 in and asks for X number of dollars. This Commission
19 reviews the data and, based on looking at costs and
20 those things, determines what the real appropriate
21 number is. So if they came in and asked for 1.662 and
22 215, Okay? And we looked at it and said, "Nah, Nah,
23 too much." And we lower it to what is appropriate.
24 That's part of the reason the revenue requirement went
25 down, isn't it?

1 MR. McWHIRTER: Let me --

2 COMMISSIONER BEARD: If I reduced the
3 tariffed amount in the IS-1 tariff from what they
4 requested to what we granted, then the 125 million is
5 going to start on this little road down to 25 million,
6 isn't it?

7 WITNESS WRIGHT: I don't think so. I think
8 the revenue requirement is determined exogenously from
9 the rate design, separately from the cost allocation in
10 the rate design. It's determined based on how much
11 they had been before they got in rate base and how much
12 of whatever else they got in rate base and what O&M was
13 allowed and what O&M wasn't allowed.

14 COMMISSIONER BEARD: If I take the same
15 number, same amount, of energy, Okay? And I price it
16 at the rates proposed by TECO and then at the same time
17 I price it by what we approved, which one is going to
18 create a larger amount of revenue?

19 WITNESS WRIGHT: Obviously, the one proposed
20 by TECO.

21 COMMISSIONER BEARD: Right. Okay. And I
22 understand --

23 WITNESS WRIGHT: But the issue about
24 allocation amongst the classes is separate from the
25 overall revenue requirement determination, that's all

1 I'm saying.

2 COMMISSIONER BEARD: Never mind, I'm not
3 going to argue.

4 CHAIRMAN WILSON: Any questions?

5 MR. McWHIRTER: No, sir. I object to Exhibit
6 607 as it is presently structured on two bases, if you
7 want to know why.

8 MR. BURGESS: I would like to know why.

9 CHAIRMAN WILSON: Just as a matter of mere
10 curiosity.

11 MR. McWHIRTER: It's comparing apples and
12 oranges. Let me give you a hypothetical example. If
13 you go to the Gulf station and say, "How many gallons
14 of gas will it take me to drive from here to Ocala --"

15 MR. BURGESS: Maybe I don't want to know.

16 MR. McWHIRTER: -- He says, "Five gallons."

17 CHAIRMAN WILSON: And then the fellow only
18 drives to Perry and it only takes a gallon-and-a-half.
19 And he bought Texaco could instead of Gulf. And the
20 Texaco man says, "Well, look, if you'd bought Gulf, it
21 would have required you five gallons, but it only
22 required you a gall

23 MR. BURGESS: Excuse me. I'm going to object
24 to this. I consider this to be well beyond the bounds
25 of grounds for objection to a particular exhibit. I

1 think this would be something that Mr. McWhirter would,
2 I don't know, use in brief or argument or testimony, if
3 he were allowed to testify.

4 CHAIRMAN WILSON: Well, it's clearly not as
5 good as lifting the pay load off the -- at the cape.

6 MR. McWHIRTER: Maybe my analogy is bad, but
7 the problem is you're comparing apples and oranges and
8 he -- the purpose of this exhibit is to show that the
9 IS customers were better off under the equivalent
10 peaker method than they would have been under Tampa
11 Electric's proposal. But, the answer is they would not
12 have been better off if you'd used the same revenue
13 requirement that TECO was asking for, and so, it's not
14 a fair exhibit to illustrate that point.

15 MR. BURGESS: I don't think Mr. McWhirter's
16 characterization reflects the testimony that it was
17 offered for, that is that there was a lot going on
18 besides simply the equivalent peaker method. There was
19 a rate increase of some considerable significance and a
20 number of other factors. To the extent that Mr.
21 McWhirter disagrees with the value of the exhibit
22 certainly does not make the objection valid. There's
23 nothing objectionable in the exhibit, and Mr. McWhirter
24 has had the opportunity to cross examine.

25 MR. McWHIRTER: It's woefully.

1 CHAIRMAN WILSON: Mr. McWhirter, I'm
2 surprised you didn't object because of the competence
3 of the evidence. This is not the exhibit that was from
4 the case, is it?

5 MR. BURGESS: I'm sorry, what?

6 CHAIRMAN WILSON: This exhibit is derived
7 from information that was in the case. It's not an
8 exhibit from the case.

9 MR. BURGESS: That's correct, at least as far
10 as I know.

11 CONTINUED REDIRECT EXAMINATION

12 BY MR. BURGESS:

13 Q Mr. Wright, excuse me, is this an exhibit
14 that was actually offered in the case?

15 A No, it was derived from exhibits in the case.

16 MR. BURGESS: It might be beneficial to ask
17 the witness the purpose for which he offered the
18 exhibit.

19 CHAIRMAN WILSON: I think that was the first
20 question you asked him, and he answered it.

21 Mr. Pruitt?

22 MR. PRUITT: It is generally represented in
23 the exhibit that the figures are taken from orders of
24 the Commission. If that is a fact, the Commission has
25 the authority to take official notice of its own orders

1 and what is contained in them. The only thing, you
2 can't take official notice of the evidence that was
3 adduced to produce the order though.

4 CHAIRMAN WILSON: I don't think this comes
5 from the order. This comes from an exhibit.

6 MR. PRUITT: If it comes from an exhibit --

7 CHAIRMAN WILSON: Comes from a revised tariff
8 sheet that we approved and an exhibit by Mr. Campbell
9 in testimony before the Commission.

10 COMMISSIONER EASLEY: Mr. Chairman, before
11 you rule, whichever way you rule, I would like to see
12 the comparison that I was talking about. Now whether
13 that's to a replacement Exhibit 607 or a supplemental
14 late-filed, I don't know, but to give you an indication
15 of the fact that I don't think this is enough
16 information, I would like to request the additional
17 information, and that is the straightforward comparison
18 of the equivalent peaker method based on the -- either
19 the first rates that TECO asked for or the rates that
20 ultimately were granted by the Commission. So that I
21 can see what in the dickens we are comparing.

22 CHAIRMAN WILSON: I'm going to allow the --
23 allow the exhibit to be admitted into evidence. I
24 think Mr. McWhirter has had an opportunity to impeach
25 the exhibit. And it will stand for it stands for.

1 (Exhibit No. 607 was received into evidence.)

2 COMMISSIONER EASLEY: Well, then, do I need
3 to ask for a separate late-filed?

4 CHAIRMAN WILSON: If you would like it, yes.
5 Mr. Wright will be back on the stand in rebuttal, I
6 believe, will you not?

7 WITNESS WRIGHT: Yes, sir.

8 COMMISSIONER EASLEY: Perhaps he can bring it
9 back at that time.

10 WITNESS WRIGHT: I'll try.

11 COMMISSIONER EASLEY: You understand what I'm
12 asking for?

13 WITNESS WRIGHT: What the rates would have
14 been based on the requested revenue requirement.

15 COMMISSIONER EASLEY: To make that same
16 comparison but using the same revenue requirements.

17 CHAIRMAN WILSON: Anything further?

18 MR. PALECKI: Commissioner, Staff was
19 instructed to point out the appropriate time to revisit
20 the argument concerning the proposed late-filed for Mr.
21 O'Sheasy, which was a rerun of the cost of service.
22 We're prepared to do that now or first thing in the
23 morning, whichever is the Commission's pleasure.

24 CHAIRMAN WILSON: Are you still requesting
25 the exhibit?

1 MR. PALECKI: Yes, we are.

2 CHAIRMAN WILSON: We'll do it in the morning.

3 Any further redirect?

4 MR. BURGESS: No, sir.

5 MR. VANDIVER: What time will we reconvene
6 this hearing tomorrow?

7 CHAIRMAN WILSON: I was about to get to that.
8 Anything further this afternoon? This evening?

9 We have a swearing-in ceremony at 9:00
10 o'clock in the morning for the new Commissioner, and we
11 will be in an Agenda Conference immediately following
12 that, and my expectation is we should be through with
13 that my noon.

14 MR. BURGESS: We have the next witness.
15 They'll be in this evening, so we'll be monitoring it
16 if you want to start agenda early.

17 CHAIRMAN WILSON: What I want to do is start
18 this hearing back 45 minutes after the conclusion of
19 Agenda Conference or 1:00 o'clock, whichever comes
20 first.

21 MR. McWHIRTER: Whichever comes later?

22 CHAIRMAN WILSON: No, the Agenda, whether
23 it's through or not, will be over by noon.

24 I would ask that you straighten up these
25 benches since we'll be doing -- or the tables, since we

1 will be doing Agenda Conference in the morning.

2 Mr. Wright, thank you very much. You may
3 step down.

4 (Witness Wright excused.)

5 - - - - -

6 MR. BURGESS: Can we leave things here?

7 CHAIRMAN WILSON: If you leave things back
8 there on that back table, that would be fine and/or
9 under that table, I think there's room there.

10 MR. PALECKI: Can we take care of the
11 cleaning up first thing in the morning?

12 CHAIRMAN WILSON: Sure, you can do it first
13 thing in the morning, just be sure you have it done by
14 about quarter of 9:00. Thank you.

15 (Thereupon, hearing adjourned at 7:35 p.m.,
16 to reconvene at 1:00 p.m., Tuesday, June 19, 1990, at
17 the same location.)

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