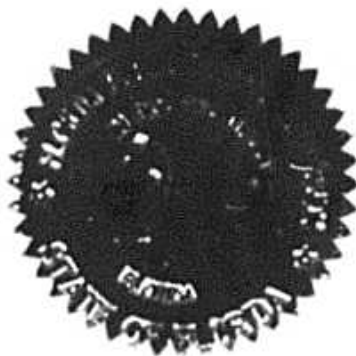


BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

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In the Matter of : DOCKET NO. 980001-EI  
:                   :  
Fuel and purchased :  
power cost recovery :  
clause and generating :  
performance incentive :  
factor.               :  
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DOCKET NO. 980001-EI



PROCEEDINGS:                HEARING

BEFORE:                      COMMISSIONER SUSAN F. CLARK  
                                 COMMISSIONER JOE GARCIA  
                                 (Video teleconferencing from Miami)  
                                 COMMISSIONER E. LEON JACOBS, JR.

DATE:                        Monday, November 23, 1998

TIME:                        Commenced at 9:30 a.m.  
                                 Concluded at 11:30 a.m.

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

REPORTED BY:                H. RUTHE POTAMI, CSR, RPR  
                                 Official Commission Reporter  
                                 (904) 413-6734

DOCUMENT NUMBER - DATE

**13600 DEC-3 98**

PSC-RECORDS/REPORTING

1     **APPEARANCES:**

2                     **JEFFREY A. STONE** and **RUSSELL A. BADDERS**,  
3     Beggs & Lane, 700 Blount Building, 3 West Garden  
4     Street, Post Office Box 12950, Pensacola, Florida  
5     32576-2950, appearing on behalf of **Gulf Power Company**.

6                     **LEE L. WILLIS**, Ausley & McMullen, Post  
7     Office Box 391, Tallahassee, Florida 32302, appearing  
8     on behalf of **Tampa Electric Company (TECO)**.

9                     **JOHN McWHIRTER, JR.**, McWhirter, Reeves,  
10    McGlothlin, Davidson, Decker, Kaufman, Arnold & Steen,  
11    Post Office Box 3350, Tampa, Florida 32601-3350,  
12    appearing on behalf of **Florida Industrial Power Users**  
13    **Group (FIPUG)**.

14                    **JOHN ROGER HOWE**, Deputy Public Counsel,  
15    Office of Public Counsel, 111 West Madison Street,  
16    Room 812, Tallahassee, Florida 32399-1400, appearing  
17    on behalf of the **Citizens of the State of Florida**.

18                    **LESLIE J. PAUGH**, Florida Public Service  
19    Commission, Division of Legal Services, 2540 Shumard  
20    Oak Boulevard, Tallahassee, Florida 32399-0870,  
21    appearing on behalf of the **Commission Staff**.

22

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## I N D E X

1		
2	<b>WITNESSES:</b>	
3	<b>NAME</b>	<b>PAGE NO.</b>
4	KARL WIELAND	
5	Prefiled Direct Testimony Inserted Into the Record by Stipulation	16
6	DAURIO ZULOAGA	
7	Prefiled Direct Testimony Inserted Into the Record by Stipulation	32
8	R. SILVA	
9	Prefiled Direct Testimony Inserted Into the Record by Stipulation	39
10	R.L. WADE	
11	Prefiled Direct Testimony Inserted Into the Record by Stipulation	67
12	K.M. DUBIN	
13	Prefiled Direct Testimony Inserted Into the Record by Stipulation	79
14	GEORGE M. BACHMAN	
15	Prefiled Direct Testimony Inserted Into the Record by Stipulation	101
16	M.F. OAKS	
17	Prefiled Direct Testimony Inserted Into the Record by Stipulation	105
18	S.B. CRANMER	
19	Prefiled Direct Testimony Inserted Into the Record by Stipulation	108
20	G.D. FONTAINE	
21	Prefiled Direct Testimony Inserted Into the Record by Stipulation	122
22	M.W. HOWELL	
23	Prefiled Direct Testimony Inserted Into the Record by Stipulation	129
24		
25		

1 INDEX OF WITNESSES CONTINUED:

2	<b>NAME:</b>	<b>PAGE NO.</b>
3	KAREN O. ZWOLAK	
4	Prefiled Direct Testimony Inserted Into the Record by Stipulation	147
5	G.A. KESELOWSKY	
6	Prefiled Direct Testimony Inserted Into the Record by Stipulation	160
7	ROD BURKHARDT	
8	Prefiled Direct Testimony Inserted Into the Record by Stipulation	196

9

**EXHIBITS**

10	<b>NUMBER</b>	<b>ID.</b>	<b>ADMTD.</b>
11	1 JS-1	13	
12	2 JS-2	13	
13	3 KHW-1	13	13
14	4 KHW-2	13	13
15	5 DBZ-1	13	13
16	6 DBZ-1 (second)	13	13
17	7 RS-1	13	13
18	8 RS-2	13	13
19	9 RS-3	13	13
20	10 RS-4	13	13
21	11 RS-5	13	13
22	12 RS-6	13	13
23	13 RS-7	13	13

24  
25

1 INDEX OF EXHIBITS CONTINUED:

2	NUMBER:	ID	ADMTD
3	14 KMD-1	13	13
4	15 KMD-2	13	13
5	16 KMD-3	13	13
6	17 GMB-2	13	13
7	18 MFO-1	13	13
8	19 SBC-2	13	13
9	20 GDF-1	13	13
10	21 GDF-2	13	13
11	22 GDF-3	13	13
12	23 MWH-1	13	13
13	24 KOZ-1 corrected	13	13
14	25 KOZ-2	13	13
15	26 KOZ-3	13	13
16	27 GAK-1	13	13
17	28 GAK-2	13	13
18	29 GAK-2 (second designation)	13	13
19	30 GAK-3	13	13
20	31 RB-1	13	13

21  
22  
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25

MISCELLANEOUS

ITEM	PAGE NO.
CERTIFICATE OF REPORTER	207

## P R O C E E D I N G S

(Hearing convened at 9:30 a.m.)

COMMISSIONER CLARK: Let's call the hearing to order. Ms. Paugh, if you could walk me through everything I need to do.

MS. PAUGH: We'll commence by reading the notices.

COMMISSIONER CLARK: That's a good idea.

MR. KEATING: Pursuant to notice issued October 19th, 1998, this time and place have been set for a hearing in the following dockets: Docket No. 980001-EI, fuel and purchased power cost recovery clause and generating performance incentive factor; Docket 980002-EG, energy conservation cost recovery clause; Docket No. 980003-GU, purchased gas adjustment true-up; and Docket No. 980007-EI, environmental cost recovery clause.

COMMISSIONER CLARK: Take appearances.

MR. STONE: Commissioner, I'm Jeffrey A. Stone of the law firm Beggs & Lane, appearing today on behalf of Gulf Power Company.

MR. WILLIS: I'm Lee L. Willis of Ausley, McMullen, P.O. Box 391, Tallahassee, Florida, 32302, appearing together with James D. Beasley of the same firm, P.O. Box 391, Tallahassee, Florida 32302,

1 appearing on behalf of Tampa Electric Company.

2 MS. PAUGH: If counsel could indicate which  
3 dockets they're appearing for, that would be helpful  
4 for the record.

5 MR. WILLIS: I'm appearing in both the 01  
6 and 07 docket.

7 MR. STONE: And stepping back to me, I'm  
8 appearing on behalf of Gulf Power Company in the 01,  
9 the 02 and the 07 docket.

10 MR. CHILDS: Commissioner, my name is  
11 Matthew Childs of the firm of Steel Hector & Davis.  
12 I'm appearing on behalf of Florida Power & Light  
13 Company in the 07 docket.

14 MR. McWHIRTER: My name is John McWhirter,  
15 appearing on behalf of the Florida Industrial Power  
16 Users Groups, appearing in Dockets 01, 02, 03 and 07.

17 MR. HOWE: Commissioners, I'm Roger Howe  
18 with the Office of Public Counsel, appearing on behalf  
19 of the citizens of the state of Florida in the 01, 02,  
20 03 and 07 dockets.

21 MS. PAUGH: Leslie Paugh, on behalf of Staff  
22 in the 01 and 07 dockets.

23 MR. KEATING: Cochran Keating, appearing on  
24 behalf of Staff in the 02 and 03 dockets.

25 COMMISSIONER CLARK: Does Staff have a

1 suggestion of how we should proceed?

2 MS. PAUGH: We do.

3 MR. KEATING: Staff suggests that we take  
4 the 03 docket first, followed by the 02 docket; then  
5 the 01 docket, and finally the 07 docket.

6 COMMISSIONER CLARK: All right. We'll do  
7 that.

8 (Whereupon other dockets were discussed.)

9 \* \* \* \* \*

10 COMMISSIONER CLARK: Now we move to --

11 MS. PAUGH: 980001, Commissioner.

12 COMMISSIONER CLARK: Okay.

13 MS. PAUGH: Late Friday afternoon Tampa  
14 Electric Company was able to resolve with Staff and  
15 the parties the outstanding Btu issue, and Tampa  
16 Electric Company, I believe, has a handout, or Staff  
17 does, that reflects which issues are resolved and how.

18 COMMISSIONER CLARK: All right. That's on  
19 Issues 3, 4, 7, 10B and C?

20 MS. PAUGH: That's correct, Commissioner.

21 COMMISSIONER CLARK: And Staff agrees with  
22 the resolution of those issues?

23 MS. PAUGH: We do. You may want to get  
24 confirmation from FIPUG, Public Counsel --

25 COMMISSIONER CLARK: Okay. Well,



1 Mr. McWhirter and Mr. Howe, are you in agreement with  
2 these positions, or do you take no position?

3 MR. McWHIRTER: FIPUG is in agreement.

4 COMMISSIONER CLARK: Mr. Howe?

5 MR. HOWE: Public Counsel is in agreement.

6 COMMISSIONER CLARK: All right. So then all  
7 the issues in 980001 have been stipulated; is that  
8 correct?

9 MR. WILLIS: They have. And the stipulation  
10 has a date of November 23rd, 1998, in the upper  
11 right-hand corner, which was on the desk there.

12 COMMISSIONER CLARK: Yes, I have that.

13 MR. WILLIS: Commissioner, Tampa Electric is  
14 also -- and will file with the clerk the revised  
15 schedules which are Document 1 of Karen Zwolak's  
16 Exhibit KOZ-2 that just conforms with this -- to the  
17 numbers.

18 COMMISSIONER CLARK: Say that again, please.

19 MR. WILLIS: In order that Tampa Electric's  
20 filed schedules with respect to the fuel adjustment  
21 conform to the stipulations that we have made, Tampa  
22 Electric will file its revised schedules, which are  
23 Document 1 to KOZ-2, Exhibit KOZ-2. It's just a pro  
24 forma filing to conform with the agreements that we've  
25 made.

1           **COMMISSIONER CLARK:** Okay. So that -- well,  
2 I see all of them are KOZ -- well, two of them are  
3 KOZ-1. I suppose the first one is supposed to be 1 on  
4 the prehearing order, on Page 26.

5           **MS. PAUGH:** That's correct.

6           **COMMISSIONER CLARK:** Okay. So when we  
7 identify that exhibit it will be with the  
8 understanding it will be with the corrected page.

9           **MR. WILLIS:** Yes. It's revised as of  
10 November 20th, 1998.

11           **UNIDENTIFIED SPEAKER:** The first KOZ-2  
12 should be 1.

13           **COMMISSIONER CLARK:** Correct. All right.  
14 Let's identify the exhibits.

15           **MS. PAUGH:** Before we move to that point,  
16 I'd like Roberta to clarify the exhibit that will be  
17 forthcoming.

18           **MS. BASS:** The handout that you were given  
19 includes the amount of an adjustment of 6,639,522.

20                   Staff is still looking at the calculation of  
21 that amount, the interest calculation associated with  
22 the Btu adjustment amount. That number could change,  
23 and I think all the parties have agreed that whatever  
24 the final number is based on the review of the  
25 interest calculation is what the final amount would

1 be.

2 COMMISSIONER CLARK: Okay. It's a  
3 mathematical calculation you have.

4 MS. BASS: Yes, it is.

5 MS. PAUGH: In addition, I didn't hear  
6 Mr. Willis reflect whether or not on Page 3 of three  
7 of the facts that you've been handed, it should say  
8 "projected fuel and purchased power".

9 MR. WILLIS: Yes. And it does, and that was  
10 why I referred to the note on the 23rd, 1998, which  
11 has that word in there.

12 MS. PAUGH: Okay. Thank you.

13 COMMISSIONER CLARK: Mr. McWhirter and  
14 Mr. Howe, do you agree with the stipulated issues, or  
15 do you take no position?

16 MR. McWHIRTER: I agree with the stipulated  
17 issues.

18 COMMISSIONER CLARK: Mr. Howe?

19 MR. HOWE: And here we're referring to the  
20 TECO issues, correct?

21 COMMISSIONER CLARK: Yes.

22 MR. HOWE: We agree.

23 COMMISSIONER CLARK: Okay. Let's go ahead  
24 and identify the exhibits starting with JS-1 and 2.

25 MS. PAUGH: I would recommend that the

1 exhibits in the 01 docket not be made into composites  
2 because they refer to different schedules, and for the  
3 record that may be a little confusing; so if I may  
4 just number consecutively.

5 COMMISSIONER CLARK: That will be fine.

6 MS. PAUGH: JS-1 is Exhibit 1; JS-2,  
7 Exhibit 2; KHW-1, Exhibit 3; KHW-2, Exhibit 4; DBZ-1  
8 is Exhibit 5; DBZ-1, the second one, is Exhibit 6;  
9 RS-1 is Exhibit 7 --

10 COMMISSIONER CLARK: Is that the -- let me  
11 just ask you if that is the way it's listed on the  
12 exhibit itself. Are there two DBZ-1s?

13 MS. PAUGH: I'll have to check. And we will  
14 make whatever corrections are appropriate with the  
15 order.

16 COMMISSIONER CLARK: Okay.

17 MS. PAUGH: RS-2 is Exhibit 8; RS-3,  
18 Exhibit 9; RS-4, Exhibit 10; RS --

19 COMMISSIONER CLARK: You're going too fast  
20 for me.

21 MS. PAUGH: Sorry about that.

22 COMMISSIONER CLARK: Go ahead.

23 MS. PAUGH: RS-5, Exhibit 11; RS-6,  
24 Exhibit 12; RS-7, Exhibit 13; KMD-1, Exhibit 14;  
25 KMD-2, Exhibit 15; KMD-3, Exhibit 16; GMB-2,

1 composite, is Exhibit 17; MFO-1 Exhibit 18; SBC-2,  
2 Exhibit 19; GDF-1, Exhibit 20; GDF-2, Exhibit 21;  
3 GDF-3, Exhibit 22; MWH-1, Exhibit 23; KOZ-1 as  
4 corrected in this hearing is Exhibit 24; KOZ-2,  
5 Exhibit 25; KOZ-3, Exhibit 26; GAK-1, Exhibit 27;  
6 GAK-2, Exhibit 28; GAK-2, the second designation, will  
7 be Exhibit 29. We'll check that on the exhibit  
8 document. GAK-3, Exhibit 30; RB-1, Exhibit 31; DAB-1,  
9 Exhibit 32; MJH-1, Exhibit 33.

10 We would recommend that the exhibits be  
11 moved into the record.

12 **COMMISSIONER CLARK:** Those exhibits will be  
13 entered in the record without objection.

14 (Exhibits 1 through 33 marked for  
15 identification and received in evidence.)

16 **MS. PAUGH:** In addition, Staff recommends  
17 that the testimony of the following witnesses be moved  
18 into the record as though read. This can be found on  
19 Page 5 of the prehearing order, and going on to  
20 Page 6.

21 They are: John Scardino, Jr., Karl Wieland,  
22 Daurio Zuloaga, R. Silva, R.L. Wade, K.M. Dubin,  
23 George M. Bachman, M.F. Oaks, S.B. Cranmer,  
24 G.D. Fontaine, M.W. Howell, Karen O. Zwolak,  
25 G.A. Keselowsky, Rod Burkhardt, Deirdre Brown,

1 Mark J. Hornick.

2 (REPORTER'S NOTE: Pursuant to counsel for  
3 the Commission, the testimony of John Scardino was not  
4 needed; therefore, it was not inserted in the  
5 transcript, and his exhibits, identified as Exhibit  
6 Nos. 1 and 2 in the prehearing order, were not  
7 admitted.)

8 COMMISSIONER CLARK: The testimony of those  
9 witnesses will be entered in the record as though  
10 read.

11 MR. HOWE: Excuse me, Commissioner Clark.

12 Lee, given the decision we made on the Btu  
13 adjustment, is there any need at this time to have  
14 Deirdre Brown's and Mr. Hornick's testimony in the  
15 record?

16 MR. WILLIS: No.

17 MR. HOWE: Commissioner Clark, I would  
18 suggest that those two witnesses' testimony not be  
19 introduced into the record since we've reached an  
20 agreement on the Btu adjustment.

21 MS. PAUGH: That's acceptable to Staff.

22 COMMISSIONER CLARK: Then the testimony of  
23 Deirdre Brown and Mr. Hornick will not entered in the  
24 record and, likewise, Exhibit 32 and 33 will not be in  
25 the record.

1           **MR. WILLIS:** We have no objection to that.

2           **MS. PAUGH:** Staff has no objection.

3                   (Exhibits 32 and 33 were withdrawn from the  
4 record.)

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**FLORIDA POWER CORPORATION****DOCKET No. 980001-EI****Levelized Fuel and Capacity Cost Factors  
January through December 1999****DIRECT TESTIMONY OF  
KARL H. WIELAND**

1 **Q. Please state your name and business address.**

2 A. My name is Karl H. Wieland. My business address is Post Office Box  
3 14042, St. Petersburg, Florida 33733.

4  
5 **Q. By whom are you employed and in what capacity?**

6 A. I am employed by Florida Power Corporation as Manager of Financial  
7 Analysis.

8  
9 **Q. Have the duties and responsibilities of your position with the  
10 Company remained the same since you last testified in this  
11 proceeding?**

12 A. Yes.

13  
14 **Q. What is the purpose of your testimony?**

15 A. The purpose of my testimony is to present for Commission approval the  
16 Company's levelized fuel and capacity cost factors for the period of  
17 January through December 1999.



1 **Q. Do you have an exhibit to your testimony?**

2 A. Yes. I have prepared an exhibit attached to my prepared testimony  
3 consisting of Parts A through E and the Commission's minimum filing  
4 requirements for these proceedings, Schedules E1 through E10 and H1,  
5 which contain the Company's levelized fuel cost factors and the supporting  
6 data. Parts A through C contain the assumptions which support the  
7 Company's cost projections, Part D contains the Company's capacity cost  
8 recovery factors and supporting data. Part E contains a calculation of  
9 costs the Company proposes to recover during the period for the  
10 conversion of an additional combustion turbine to natural gas firing.

11

12

#### FUEL COST RECOVERY

13

**Q. Please describe the levelized fuel cost factors calculated by the  
14 Company for the upcoming projection period.**

14

15

A. Schedule E1, page 1 of the "E" Schedules in my exhibit, shows the  
16 calculation of the Company's basic fuel cost factor of 1.893 ¢/kWh (before  
17 line loss adjustment). The basic factor consists of a fuel cost for the  
18 projection period of 1.91322 ¢/kWh (adjusted for jurisdictional losses), a  
19 GPIF penalty of 0.00132 ¢/kWh, and an estimated prior period true-up  
20 credit of 0.04494 ¢/kWh. In addition, the basic factor includes a charge of  
21 0.02528 ¢/kWh representing the remaining three months of nuclear  
22 replacement fuel replacement cost to be collected per stipulation approved  
23 in Docket No. 970261-EI, and a Market Price true-up credit for Powell  
24 Mountain in the amount of 0.00079 ¢/kWh.

1 Utilizing this basic factor, Schedule E1-D shows the calculation and  
2 supporting data for the Company's levelized fuel cost factors for secondary,  
3 primary, and transmission metering tariffs. To accomplish this calculation,  
4 effective jurisdictional sales at the secondary level are calculated by  
5 applying 1% and 2% metering reduction factors to primary and  
6 transmission sales (forecasted at meter level). This is consistent with the  
7 methodology being used in the development of the capacity cost recovery  
8 factors.

9 Schedule E1-E develops the TOU factors 1.287 On-peak and 0.858  
10 Off-peak. The levelized fuel cost factors (by metering voltage) are then  
11 multiplied by the TOU factors, which results in the final fuel factors to be  
12 applied to customer bills during the projection period. The final fuel cost  
13 factor for residential service is 1.896 ¢/kWh.

14  
15 **Q. What is the change in the fuel factor from the current to the projected**  
16 **period?**

17 A. The average fuel factor decreases from 2.122 ¢/kWh to 1.893 ¢/kWh, a  
18 decrease of 10.8%.

19  
20 **Q. Please explain the reasons for the decrease.**

21 A. The decrease is a result of several factors, including the addition of the  
22 efficient new Hines Unit 1 combined cycle plant, the annual vs. seasonal  
23 fuel factor calculation, an over-recovery credit, and a reduced factor for the  
24 recovery of previously approved nuclear fuel replacement costs. The  
25 annual fuel factor is lower than the summer seasonal factor on which

1 current rates are based because the additional generation required during  
2 the summer period is supplied by more expensive oil and gas fired units.

3  
4 **Q. What portion of the previously approved nuclear replacement fuel  
5 costs will be recovered during 1999?**

6 A. Schedule E1, line 28b shows that unrecovered balance of \$8,346,290, or  
7 0.02528 ¢/kWh, of the approved recovery amount will be recovered during  
8 1999.

9  
10 **Q. What is included in Schedule E1, line 4, "Adjustments to Fuel Cost"?**

11 A. Line 4 shows the recovery of the costs associated with conversion of  
12 eleven combustion turbine units to burn natural gas instead of distillate oil.  
13 Recovery of the conversion of Intercession City units 7 through 10, Debarry  
14 units 7 & 9, Bartow units 2 & 4 and Suwannee units 1 & 3 have already  
15 been approved by this Commission. In this filing the Company is  
16 requesting approval to add the conversion costs of an additional unit  
17 located at Debarry beginning in May, 1999. In addition, line 4 contains the  
18 annual payment of \$1.3 million to the DOE for the decommissioning and  
19 decontamination of their enrichment facilities.

20  
21 **Q. What is included in Schedule E1, line 6, "Energy Cost of Purchased  
22 Power"?**

23 A. Line 6 includes energy costs for the purchase of 50 MWs from Tampa  
24 Electric Company and the purchase of 405 MWs under a Unit Power Sales  
25 (UPS) agreement with the Southern Company. The capacity payments

1 associated with the UPS contract are based on the original contract of 400  
2 MWs. The additional 5 MWs are the result of revised SERC ratings for the  
3 five units involved in the unit power purchase, providing a benefit to Florida  
4 Power in the form of reduced costs per kW. Both of these contracts have  
5 been in place and have been approved for cost recovery by the  
6 Commission. Capacity costs for these purchases are included in the  
7 capacity cost recovery factor.  
8

9 **Q. What is included in Schedule E1, line 8, "Energy Cost of Economy**  
10 **Purchases (Non-Broker)"?**

11 A. Line 8 consists primarily of economy purchases from within or outside the  
12 state which are not made through the Florida Broker System. Line 8 also  
13 includes energy costs for purchases from Seminole Electric Cooperative  
14 (SECI) for load following, and off-peak hydroelectric purchases from the  
15 Southeast Electric Power Agency (SEPA). The SECI contract is an  
16 ongoing contract under which the Company purchases energy from SECI  
17 at 95% of its avoided fuel cost. Purchases from SEPA are on an as-  
18 available basis. There are no capacity payments associated with either of  
19 these purchases. Other purchases may have non-fuel charges, but since  
20 such purchases are made only if the total cost of the purchase is lower than  
21 the Company's cost to generate the energy, it is appropriate to recover the  
22 associated non-fuel costs through the fuel adjustment clause rather than  
23 the capacity cost recovery factor. Such non-fuel charges, if any, are  
24 reported on line 10.

1 **Q. Please explain the entry on Schedule E1, line 17, "Fuel Cost of**  
2 **Stratified Sales."**

3 A. Florida Power has several wholesale contracts with Seminole, some of  
4 which represent Seminole's own firm resources, and others that provide for  
5 the sale of supplemental energy to supply the portion of their load in  
6 excess of Seminole's own resources, 1080 MW in 1999. The fuel costs  
7 charged to Seminole for supplemental sales are calculated on a "stratified"  
8 basis, in a manner which recovers the higher cost of intermediate/peaking  
9 generation used to provide the energy. New contracts for fixed amounts  
10 of intermediate and peaking capacity begin in January of 1999. While  
11 those sales are not necessarily priced at average cost, Florida Power is  
12 crediting average fuel cost for the appropriate stratification (intermediate  
13 or peaking) in accordance with Order No. PSC-97-0262-FOF-EI. Florida  
14 Power also has existing wholesale peaking contracts with Georgia Power  
15 Company and the Municipal Electric Authority of Georgia (MEAG) under  
16 which fuel costs are charged in a similar manner. The fuel costs of  
17 wholesale sales are normally included in the total cost of fuel and net  
18 power transactions used to calculate the average system cost per kWh for  
19 fuel adjustment purposes. However, since the fuel costs of the stratified  
20 sales are not recovered on an average system cost basis, an adjustment  
21 has been made to remove these costs and the related kWh sales from the  
22 fuel adjustment calculation in the same manner that interchange sales are  
23 removed from the calculation. This adjustment is necessary to avoid an  
24 over-recovery by the Company which would result from the treatment of  
25 these fuel costs on an average system cost basis in this proceeding, while

1 actually recovering the costs from these customers on a higher, stratified  
2 cost basis. Details on these sales are shown on Schedule E6.

3  
4 **Q. How was the estimated true-up shown on line 28 of Schedule E1**  
5 **developed?**

6 A. The estimated true-up calculation begins with the actual balance of  
7 \$(36,210,111), taken from Schedule A2, page 3 of 4, previously submitted  
8 for the month of August. This balance was projected to the end of  
9 December, 1998, including interest estimated at the August ending rate of  
10 0.462% per month. The development of the estimated true-up amount for  
11 April through December 1998 period is shown on Schedule E1B, and  
12 summarized on Schedule E1A. The actual September balance will be  
13 amortized during October through December, 1998, resulting in a current  
14 period estimated over-recovery of \$14,837,877 at the end of December  
15 1998. This results in an estimated true-up credit on line 28 of Schedule E1  
16 (Basic) of 0.0449 ¢/kWh for application in the January-December 1999  
17 projection period.

18  
19 **Q. What are the primary reasons for the projected December 1998 over-**  
20 **recovery of \$14.8 million?**

21 A. Continuing the summer fuel adjustment factors for October through  
22 December, 1998 is the major reason for the over-recovery. This over-  
23 recovery was anticipated to be \$21.7 million in the Company's June 22  
24 filing for this period, but extreme summer temperatures increased fuel  
25 expenses and reduced the expected over-recovery.

1 **Q. How was the market price true-up for Powell Mountain coal purchases**  
2 **calculated?**

3 A. The calculation was performed in accordance with the market pricing  
4 methodology approved by the Commission for Powell Mountain coal  
5 purchases in Docket No. 860001-EI-G and has been made available for  
6 Staff review. The true-up is based on the difference between the  
7 previously recovered cost of Powell Mountain coal purchases during 1995,  
8 and a calculated cost using the market price index for compliance coal in  
9 BOM District 8 for 1997, as adopted in Order No. 22401. The true-up  
10 amount of \$263,847 also includes interest through May, 1998.

11  
12 **Q. Has Florida Power confirmed the validity of using the "short-cut"**  
13 **method of determining the equity component of EFC's capital**  
14 **structure for calendar year 1997?**

15 A. Yes. Florida Power's Audit Services department has reviewed the analysis  
16 performed by Electric Fuels Corporation (EFC). The revenue requirements  
17 under a full utility-type regulatory treatment methodology using the actual  
18 average cost of debt and equity required to support Florida Power business  
19 was compared to revenues billed using equity based on 55% of net long-  
20 term assets (short cut method). The analysis showed that for 1997, the  
21 short cut method resulted in revenues of \$286.4 million which were \$0.01  
22 million or 0.004% lower than revenues under the full utility-type regulatory  
23 treatment methodology. Florida Power continues to believe that this  
24 analysis confirms the appropriateness of the short cut method.

1 **Q. Has Florida Power properly calculated the 1997 price for waterborne**  
2 **transportation services provided by Electric Fuels Corporation?**

3 A. Yes. The 1997 waterborne transportation calculation has been reviewed  
4 by Staff and Public Counsel and deemed properly calculated.

5  
6 **Q. Please explain the procedure for forecasting the unit cost of nuclear**  
7 **fuel.**

8 A. The cost per million BTU of the nuclear fuel which will be in the reactor  
9 during the projection period (primarily Cycle 11) was developed from the  
10 unamortized investment cost of the fuel in the reactor. Cycle 11 consists  
11 of several "batches," of fuel assemblies which are separately accounted for  
12 throughout their life in several fuel cycles. The cost for each batch is  
13 determined from the actual cost incurred by the Company, which is audited  
14 and reviewed by the Commission's field auditors. The expected available  
15 energy from each batch over its life is developed from an evaluation of  
16 various fuel management schemes and estimated fuel cycle lengths. From  
17 this information, a cost per unit of energy (cents per million BTU) is  
18 calculated for each batch. However, since the rate of energy consumption  
19 is not uniform among the individual fuel assemblies and batches within the  
20 reactor core, an estimate of consumption within each batch must be made  
21 to properly weigh the batch unit costs in calculating a composite unit cost  
22 for the overall fuel cycle. The cost per million BTU for cycle 11 was also  
23 used for cycle 12 which will be in effect from mid-November through  
24 December, 1999, following the fall 1999 refueling outage.



1 **Q. How was the rate of energy consumption for each batch within Cycle**  
2 **11 estimated for the upcoming projection period?**

3 A. The consumption rate of each batch has been estimated by utilizing a core  
4 physics computer program which simulates reactor operations over the  
5 projection period. When this consumption pattern is applied to the  
6 individual batch costs, the resultant composite Cycle 11 is \$0.34 per million  
7 BTU.

8  
9 **Q. Would you give a brief overview of the procedure used in developing**  
10 **the projected fuel cost data from which the Company's basic fuel cost**  
11 **recovery factor was calculated?**

12 A. Yes. The process begins with the fuel price forecast and the system sales  
13 forecast. These forecasts are input into PROMOD, along with purchased  
14 power information, generating unit operating characteristics, maintenance  
15 schedules, and other pertinent data. PROMOD then computes system fuel  
16 consumption, replacement fuel costs, and energy purchases and costs.  
17 This data is input into a fuel inventory model, which calculates average  
18 inventory fuel costs. This information is the basis for the calculation of the  
19 Company's levelized fuel cost factors and supporting schedules.

20  
21 **Q. What is the source of the system sales forecast?**

22 A. The system sales forecast is made by the Forecasting section of the  
23 Financial Analysis Department using the most recently available data. The  
24 forecast used for this projection period was prepared in June 1998.

1 **Q. Is the methodology used to produce the sales forecast for this**  
2 **projection period the same as previously used by the Company in**  
3 **these proceedings?**

4 A. The methodology employed to produce the forecast for the projection  
5 period is the same as used in the Company's most recent filings, and was  
6 developed with an econometric forecasting model. The forecast  
7 assumptions are shown in Part A of my exhibit.

8  
9 **Q. What is the source of the Company's fuel price forecast?**

10 A. The fuel price forecast was made by the Fuels Supply Department based  
11 on forecast assumptions for residual oil, #2 fuel oil, natural gas, and coal.  
12 The assumptions for the projection period are shown in Part B of my  
13 exhibit. The forecasted prices for each fuel type are shown in Part C.

14  
15 **Q. Please explain the basis for requesting recovery of the cost of**  
16 **converting a third combustion turbine unit (unit 8) at Debary to burn**  
17 **natural gas.**

18 A. In Docket No. 850001-EI-B, Order No. 14546 issued on July, 1985, the  
19 Commission addressed charges appropriate for recovery through the fuel  
20 clause:

21 "Fossil fuel-related costs normally recovered through base  
22 rates but which were not recognized or anticipated in the cost  
23 levels used to determine current base rates and which, if  
24 expended, will result in fuel savings to customers. Recovery

1 of such costs should be made on a case by case basis after  
2 Commission approval."

3 Since August of 1995, Florida Power has converted Intercession City  
4 units 7-10, Debary units 7 and 9, Bartow units 2 and 4, and Suwannee  
5 units 1 and 3 to burn natural gas. The Commission previously authorized  
6 the Company to recover the conversion cost of these units, including a  
7 return on investment, over a five-year period. Florida Power is asking  
8 the Commission for the same treatment for Debary Unit 8. The cost to  
9 convert Debary Unit 8 is \$1.4 million. This conversion cost was not part  
10 of the cost of the Debary units when they were included in rate base as  
11 part of the 1993 test year.

12  
13 **Q. How is Florida Power proposing to recover the conversion cost?**

14 A. Florida Power proposes to amortize the \$1.4 million conversion cost for  
15 Debary Unit 8 over a five-year period beginning with the plant in-service  
16 date of May, 1999. The same amortization period was approved for all  
17 previous conversions. The projected cost during 1999 is \$215,013 which  
18 consists of an amortization charge of \$139,998 and a return (including  
19 income taxes) of \$75,015 based on the Company's current cost of capital  
20 of 8.37%. The fuel savings for the same period are expected to be  
21 \$376,000 resulting in a net benefit to customers of \$160,987. During the  
22 five year amortization period, the conversion produces fuel savings with  
23 a present value of \$2.7 million which results in a net benefit to customers  
24 of \$0.9 million. These savings will grow after the amortization period if  
25 gas continues to be available.

1           A monthly schedule of amortization expenses and projected fuel  
2 savings is attached as Part E of my testimony.

3  
4 **Q. Why was Debary Unit 8 not included in the original requests for**  
5 **Units 7 or 9?**

6 A. Florida Power continues to take a very conservative approach in its  
7 assessment of gas availability for the Debary site because the availability  
8 of gas at the site is limited and difficult to predict. Actual fuel savings for  
9 Debary Units 7 and 9 have far exceeded expectation which has made the  
10 Company more confident of fuel availability which is critical to achieving  
11 the fuel savings. Since their conversion, Debary Units 7 and 9 have  
12 reduced fuel cost by \$8.5 million compared to an investment of \$3.3  
13 million.

14  
15 **Q. Why is Florida Power proposing a five-year amortization period**  
16 **rather than expensing the conversion cost or depreciating it over**  
17 **the life of the unit?**

18 A. Florida Power chose a five-year period in order to align the recovery of  
19 costs with anticipated benefits. The Company is relying on the  
20 availability of interruptible gas transportation for the delivery of gas to the  
21 site because firm (take or pay) contracts are not economical for a low  
22 capacity factor peaking site. Discussions with Florida Gas Transmission  
23 as well as actual experience to date for previously converted units at this  
24 site indicate that interruptible gas will be available in sufficient quantity  
25 to power the converted units for the next five years. Florida Power hopes

1 that some gas will be available beyond that time which will yield  
2 additional savings, but we believe it more appropriate to recover costs  
3 during the time when the majority of benefits are expected to occur.  
4 Amortizing the conversion over the life of the units could burden future  
5 customers with costs that do not have corresponding benefits. Achieved  
6 fuel savings will be presented in the annual true-up filings until the units  
7 are fully amortized.

8  
9 **Q. What does Florida Power propose to do if expected fuel savings are**  
10 **not achieved?**

11 A. As it has proposed with all previously converted units, Florida Power is  
12 willing to assume the risk for achieving fuel savings for Debary Unit 8.  
13 If fuel savings during any annual period are less than the amortization  
14 and return costs, we will limit cost recovery to fuel savings and defer  
15 recovery of the difference to future periods. In no case will the Company  
16 collect an amount greater than the fuel savings, making this a no-lose  
17 proposition for customers.

18  
19 **CAPACITY COST RECOVERY**

20 **Q. How was the Capacity Cost Recovery factor developed?**

21 A. The calculation of the capacity cost recovery (CCR) factor is shown in  
22 Part D of my exhibit. The factor allocates capacity costs to rate classes  
23 in the same manner that they would be allocated if they were recovered  
24 in base rates. A brief explanation of the schedules in the exhibit follows.

1           Sheets 1 and 2: Projected Capacity Payments. This schedule  
2 contains system capacity payments for UPS, TECO and OF purchases.  
3 The retail portion of the capacity payments are calculated using  
4 separation factors from the Company's most recent Jurisdictional  
5 Separation Study.

6           Sheet 3: Estimated/Actual True-Up. This schedule presents the  
7 actual ending true-up balance as of August, 1998 and re-forecasts the  
8 over/(under) recovery balances for the next four months to obtain an  
9 ending balance for the current period. This estimated/actual balance of  
10 \$(4,856,714) is then carried forward to Sheet 1, to be collected during the  
11 January through December, 1999 period.

12           Sheet 4: Development of Jurisdictional Loss Multipliers. The same  
13 delivery efficiencies and loss multipliers presented on Schedule E1-F.

14           Sheet 5: Calculation of 12 CP and Annual Average Demand. The  
15 calculation of average 12 CP and annual average demand is based on  
16 1997 load research data and the delivery efficiencies on Sheet 3.

17           Sheet 6: Calculation of Capacity Cost Recovery Factors. The total  
18 demand allocators in column (7) are computed by adding 12/13 of the 12  
19 CP demand allocators to 1/13 of the annual average demand allocators.  
20 The CCR factor for each secondary delivery rate class in cents per kWh  
21 is the product of total jurisdictional capacity costs (including revenue  
22 taxes) from Sheet 2, times the class demand allocation factor, divided by  
23 projected effective sales at the secondary level. The CCR factor for  
24 primary and transmission rate classes reflect the application of metering  
25 reduction factors of 1% and 2% from the secondary CCR factor.

1 **Q. Please discuss the increase in the CCR factor compared to the prior**  
2 **period.**

3 A. The increase in the average CCR factor from 0.82181 ¢/kWh in the April  
4 through September 1998 period to 0.94343 ¢/kWh for the January  
5 through December 1999 period is due to the greater amount of kWh  
6 sales per dollar of expense during for the summer period than during the  
7 full calendar year. In addition, annual increases in capacity payments  
8 lead to increases in the factor from one year to the next. A third cause  
9 is the small under-recovery that is projected for the end of the year  
10 because the lower summer factor remains in place during October  
11 through December of this year.

12

13 **Q. Does this conclude your testimony?**

14 A. Yes.

**FLORIDA POWER CORPORATION****DOCKET No. 980001-EI****GPIF Targets and Ranges for  
January through December 1999****DIRECT TESTIMONY OF  
DARIO B. ZULOAGA**

1 **Q. Please state your name and business address.**

2 **A. My name is Dario B. Zuloaga. My business address is Post Office Box**  
3 **14042, St. Petersburg, Florida 33733.**

4  
5 **Q. By whom are you employed and in what capacity?**

6 **A. I am employed by Florida Power Corporation as a Principal Engineer in**  
7 **Energy Supply, Performance Services.**

8  
9 **Q. Have the duties and responsibilities of your position with the Company**  
10 **remained the same since you last testified in this proceeding?**

11 **A. Yes, they have.**

12  
13 **Q. What is the purpose of your testimony?**

14 **A. The purpose of my testimony is to present the development of the**  
15 **Company's Generating Performance Incentive Factor (GPIF) targets and**



1 ranges for the period of January through December, 1999. These GPIF  
2 targets and ranges have been developed from individual unit equivalent  
3 availability and average net operating heat rate targets and  
4 improvement/degradation ranges for each of Florida Power's GPIF  
5 generating units in accordance with the Commission's Generating  
6 Performance Incentive Implementation Manual. This initial presentation  
7 of GPIF targets and ranges on an annual, calendar-year basis is in  
8 accordance with Commission Order No. PSC-98-0691-FOF-PU. In  
9 addition, I have previously presented Florida Power's GPIF targets and  
10 ranges for the three-month transition period of October through  
11 December, 1998 in my testimony submitted for the August, 1998  
12 hearings, which was deferred to the upcoming November hearings.

13  
14 **Q. Do you have an exhibit to your testimony?**

15 **A.** Yes, I will sponsor an exhibit containing 72 pages, which consists of  
16 the GPIF standard form schedules prescribed in the Implementation  
17 Manual and supporting data, including unplanned outage rates, net  
18 operating heat rates, and computer analyses and graphs for each of the  
19 individual GPIF units, all of which are attached to my prepared  
20 testimony.

1 **Q. Which of the Company's generating units have you included in the**  
2 **GPIF program for the upcoming projection period?**

3 **A. I have included the same units as were included for the current period;**  
4 **Crystal River Units 1 through 5 and Anclote Units 1 and 2.**

5  
6 **Q. Have you determined the equivalent availability targets and**  
7 **improvement/degradation ranges for the Company's GPIF units?**

8 **A. Yes, I have. This information is included in the Target and Range**  
9 **Summary on page 3 of my exhibit.**

10  
11 **Q. How were the equivalent availability targets developed?**

12 **A. The equivalent availability targets were developed using the**  
13 **methodology established for the Company's GPIF units, as set forth in**  
14 **Section 4 of the Implementation Manual. This method describes the**  
15 **formulation of graphs based on each unit's historic performance data**  
16 **for the four individual unplanned outage rates (i.e. forced, partial**  
17 **forced, maintenance and partial maintenance outage rates), which in**  
18 **combination constitute the unit's equivalent unplanned outage rate**  
19 **(EUOR). From operational data and these graphs, the individual target**  
20 **rates are determined by inspecting two years of twelve-month rolling**  
21 **averages and the scatter of monthly data points during the two-year**  
22 **period. The unit's four target rates are then used to calculate its**

1 unplanned outage hours for the projection period. When the unit's  
2 projected planned outage hours are taken into account, the hours  
3 calculated from these individual unplanned outage rates can then be  
4 converted into an overall equivalent unplanned outage factor (EUOF).  
5 Because factors are additive (unlike rates), the unplanned and planned  
6 outage factors (EUOF and POF) when added to the equivalent  
7 availability factor (EAF) will always equal 100%. For example, an  
8 EUOF of 15% and a POF of 10% results in an EAF of 75%.

9  
10 The supporting graphs and a summary table of all target and range  
11 rates are contained in the section of my exhibit entitled "Unplanned  
12 Outage Rate Tables and Graphs".

13  
14 **Q. What is the target equivalent availability factor for Crystal River 3?**

15 **A.** The EAF target for Crystal River Unit 3 is 80.31%. The unit's next  
16 refueling outage is scheduled to begin on October 1 and continue  
17 through November 14, which results in a POF of 12.33% for the  
18 period. The unit's EUOR target is 7.91%, which equates to an EUOF  
19 of 7.36% when planned outage hours are taken into account.

20  
21 The availability targets for the 1999 period were developed after  
22 removing from the historical data all forced outage hours associated

1 with the September 1996 to February 1998 shutdown of the unit to  
2 address certain design issues related to backup safety systems,  
3 including the emergency diesel generators.  
4

5 **Q. Please describe the method utilized in the development of the**  
6 **improvement/degradation ranges for each GPIF unit's availability**  
7 **targets.**

8 **A. In general, the methodology described in the implementation manual**  
9 **was used. Ranges were first established for each of the four**  
10 **unplanned outage rates associated with each unit. From an analysis**  
11 **of the unplanned outage graphs, units with small historical variations**  
12 **in outage rates were assigned narrow ranges and units with large**  
13 **variations were assigned wider ranges. These individual ranges,**  
14 **expressed in terms of rates, were then converted into a single unit**  
15 **availability range, expressed in terms of a factor, using the same**  
16 **procedure described above for converting the availability targets from**  
17 **rates to factors.**

18  
19 **Q. Have you determined the net operating heat rate targets and ranges for**  
20 **the Company's GPIF units?**

21 **A. Yes, I have. This information is included in the Target and Range**  
22 **Summary on Page 3 of my exhibit.**

1 **Q. How were these heat rate targets and ranges developed?**

2 A. The development of the heat rate targets and ranges for the upcoming  
3 period utilized historical data from the past three years, as described  
4 in the Implementation Manual. A "least squares" computer program  
5 was used to curve-fit the heat rate data within ranges having a 90%  
6 confidence level of including all data. The computer analyses and data  
7 plots used to develop the heat rate targets and ranges for each of the  
8 GPIF units are contained in the section of my exhibit entitled "Average  
9 Net Operating Heat Rate Curves".

10  
11 **Q. How were the GPIF incentive points developed for the unit availability  
12 and heat rate ranges?**

13 A. GPIF incentive points for availability and heat rate were developed by  
14 evenly spreading the positive and negative point values from the target  
15 to the maximum and minimum values in case of availability, and from  
16 the neutral band to the maximum and minimum values in the case of  
17 heat rate. The fuel savings (loss) dollars were evenly spread over the  
18 range in the same manner as described for the incentive points. The  
19 maximum savings (loss) dollars are the same as those used in the  
20 calculation of weighting factors.

21  
22 **Q. How were the GPIF weighting factors determined?**

1 A. To determine the weighting factors for availability, a series of PROMOD  
2 simulations were made in which each unit's maximum equivalent  
3 availability was substituted for the target value to obtain a new system  
4 fuel cost. The differences in fuel costs between these cases and the  
5 target case determines the contribution of each unit's availability to  
6 fuel savings. The heat rate contribution of each unit to fuel savings  
7 was determined by multiplying the BTU savings between the minimum  
8 and target heat rates (at constant generation) by the average cost per  
9 BTU for that unit. Weighting factors were then calculated by dividing  
10 each individual unit's fuel savings by total system fuel savings.

11  
12 Q. What was the basis for determining the estimated maximum incentive  
13 amount?

14 A. The determination of the maximum reward or penalty was based upon  
15 monthly common equity projections obtained from a detailed financial  
16 simulation performed by the Company's Corporate Model.

17  
18 Q. Does this conclude your testimony?

19 A. Yes.

1                                   **BEFORE THE PUBLIC SERVICE COMMISSION**  
2                                   **FLORIDA POWER & LIGHT COMPANY**  
3                                   **AMENDED TESTIMONY OF R. SILVA,**  
4                                   **ORIGINALLY FILED MAY 27, 1998**  
5                                   **DOCKET NO. 980001-EI**  
6                                   **OCTOBER 5, 1998**  
7

8           **Q.     Please state your name and business address.**

9           **A.     My name is Rene Silva and my business address is 700 Universe**  
10           **Boulevard, Juno Beach, Florida 33408**

11  
12           **Q.     Mr. Silva, would you please state your present position with Florida**  
13           **Power and Light Company (FPL).**

14           **A.     I am Manager of Planning, Forecasting and Regulatory Response, in the**  
15           **Power Generation Business Unit of FPL.**

16  
17           **Q.     Mr. Silva, have you previously presented testimony in this docket?**

18           **A.     Yes, I have.**

19  
20           **Q.     Mr. Silva, what is the purpose of your testimony?**

21           **A.     The purpose of my testimony is to amend my original testimony and**  
22           **exhibits filed on May 27, 1998. This amendment is necessary to reflect, in**  
23           **the GPIF results, the thermal uprate of both Turkey Point Units 3 and 4,**  
24           **and the corresponding net capacity increase from the 666 MW used in**  
25           **our earlier reward/penalty calculation, to the correct 693 MW, which was**

1 implemented in October of 1996, but not reflected in the monthly reports  
2 to the FPSC Staff, nor in my original filing of May 27, 1998. An errata  
3 sheet is contained in my attached Exhibit (Document No.3)

4  
5 **Q. In what manner does the increase in Unit capacity affect the**  
6 **calculation of reward/penalty for heat rate and availability**  
7 **performance?**

8 **A.** Applying the increase in Unit capacity to the GPIF equations results in a  
9 lower actual heat rate for the Units in question and, in this case, results in  
10 no GPIF reward or penalty due to heat rate performance for Turkey Pt.  
11 Units 3 and 4. More specifically, the increase in Unit capacity reduces the  
12 actual values of Unit Net Operating Factor (NOF) and consequently the  
13 values for adjusted actual Adjusted Net Operating Heat Rate (ANOHR)  
14 during the period. As a result, the difference between the projected target  
15 ANOHR and the corrected adjusted actual ANOHR for these Units now  
16 falls within the +/75 BTU/KWH deadband. Therefore there is no reward  
17 or penalty for heat rate performance for Turkey Points Units 3 and 4. This  
18 calculation, using the correct Unit capacity, and a comparison to the  
19 calculation performed using the incorrect Unit capacity, is presented in my  
20 attached Exhibit (Document No. 4)

21  
22 The increase in Unit capacity also reduces the calculated equivalent  
23 outage hours for these Units, but not sufficiently to change the adjusted  
24 actual availability and the reported reward for availability performance.  
25



1 Q. Did you perform your revised reward/penalty calculation for heat rate  
2 performance using the same methodology as in your original  
3 testimony?

4 A. Yes. As shown in my Exhibit (Document No.4), my revised calculation  
5 uses the same equations. The only difference between my original  
6 calculation and my revised calculation is one input value, the rated  
7 capacity of Turkey Pt. Units No. 3 and 4, which has been corrected from  
8 666 MW to 693 MW.

9  
10 Q. Is it appropriate to reflect the uprated capacity of Turkey Pt. Units  
11 No. 3 and 4 in these reward/penalty calculations?

12 A. Yes. The higher level of Unit capacity is, in fact, the actual capacity of  
13 these Units, which is the value that should be used in these calculations.  
14 Moreover, the most significant effect of FPL's actions to uprate these  
15 nuclear units is that FPL's system average fuel costs have been lower than  
16 they would have otherwise been. Since nuclear fuel costs are the lowest in  
17 our system, increasing the capability of these nuclear units has reduced  
18 the cost of electricity to our customers. This result is consistent with the  
19 intent of the GPIF rule.

20  
21 Q. What is the effect of this amendment on the GPIF incentive  
22 reward/penalty for the period ending September, 1997?

23  
24 A. The total GPIF incentive reward for FPL's nuclear units increases from  
25 \$8,943,534 to \$9,707,291. The system total GPIF reward increases from

1 \$8,590,204 to \$9,353,960

2  
3 Q. Which lines in your original testimony are affected by these changes?

4 A. The following lines have changed in my original testimony

- 5  
6 1) Page 2 lines 13, 18 and 19.  
7 2) Page 5 lines 6,7,8,9,11,12,13,14,24,25  
8 3) Page 6 line 3

9 These lines have been corrected in my original testimony, and included in  
10 an Exhibit which contains my revised testimony in its entirety (Document  
11 2, pages 1 through 6)

12  
13 Q. Which sheets in your original exhibits are affected by these changes?

14 A. The following sheets have changed in my original Document 1

- 15  
16 1) Sheet 6.203.002  
17 2) Sheet 6.203.004  
18 3) Sheet 6.203.005  
19 4) Sheet 6.203.006  
20 5) Sheet 6.203.007  
21 6) Sheet 6.203.019  
22 7) Sheet 6.203.020

23  
24 These sheets are included in the revised Exhibit provided in its entirety  
25 below as Document 1, pages 1 through 24

- 1 Q. Does this conclude your testimony?
- 2 A. Yes, it does.

BEFORE THE PUBLIC SERVICE COMMISSION  
FLORIDA POWER & LIGHT COMPANY

TESTIMONY OF R. SILVA

DOCKET NO. 980001-E1

OCTOBER 5, 1998

1 Q. Please state your name and business address.

2 A. My name is Rene Silva and my business address is 700 Universe Boulevard, Juno  
3 Beach, Florida 33408.

4

5 Q. Mr. Silva, would you please state your present position with Florida Power  
6 and Light Company (FPL).

7 A. I am the Manager of Planning, Forecasting and Regulatory Response in the Power  
8 Generation Business Unit of FPL.

9

10 Q. Mr. Silva, have you previously had testimony presented in this docket?

11 A. Yes, I have.

12

13 Q. Mr. Silva, what is the purpose of your testimony?

14 A. The purpose of my testimony is to present the target unit average net operating heat  
15 rates and target unit equivalent availability for the periods of (1) October through  
16 December, 1998, and (2) January through December, 1999, for use in determining  
17 the Generating Performance Incentive Factor (GPIF).

18

19 Q. Mr. Silva, please summarize what the FPL system targets are for Equivalent  
20 Availability Factor (EAF) and Average Net Operating Heat Rate (ANOHR).

21 A. For the period of October through December, 1998, FPL projects a weighted  
22 system equivalent planned outage factor of 12.1 % and a weighted system

1 equivalent unplanned outage factor of 5.8 %, which yield a weighted system  
2 equivalent availability target of 82.1 %. For the period of January through  
3 December, 1999, FPL projects a weighted system equivalent planned outage  
4 factor of 4.7 % and a weighted system equivalent unplanned outage factor of 6.1  
5 %, which yield a weighted system equivalent availability target of 89.2 %. The  
6 targets for each of the two periods reflect planned refueling outages for two  
7 nuclear units. FPL also projects weighted system average net operating heat rate  
8 targets of 9235 BTU/KWH for the period of October through December, 1998,  
9 and 9512 BTU/KWH for the period January through December, 1999. As  
10 discussed later in this testimony, these targets represent fair and reasonable values  
11 when compared to historical data. FPL therefore requests that the targets for these  
12 performance indicators be approved by the Commission.

13  
14 **Q. Have you prepared, or caused to have prepared under your direction,**  
15 **supervision or control, an exhibit in this proceeding?**

16 **A. Yes, I have.** It consists of two documents. The first document refers to the period  
17 of October through December, 1998. The second document refers to the period of  
18 January through December, 1999. The first page of each document is an index to  
19 the contents of the document. All other pages are numbered according to the latest  
20 revisions of the GPIF Manual as approved by the Commission.

21  
22 **Q. Have you established target levels of performance for the units to be**  
23 **considered in establishing the GPIF for FPL?**

24 **A. Yes, I have.** Document No. 1, pages 6 and 7, contain the information summarizing  
25 the targets and ranges for unit equivalent availability and average net operating

1 heat rates for the sixteen (16) generating units which FPL proposes to have  
2 considered as GPIF units for the period of October through December, 1998.  
3 Similarly, Document No. 2, pages 6 and 7, contain the information summarizing  
4 the targets and ranges for unit equivalent availability and average net operating  
5 heat rates for the seventeen (17) generating units which FPL proposes to have  
6 considered as GPIF units for the period of January through December, 1999. The  
7 Sheets presented in these pages were prepared in accordance with the latest  
8 revisions of the GPIF Manual. All of these targets have been derived utilizing  
9 methodologies as adopted in Section 4, Subsection 2.3 of the GPIF Manual.  
10

11 **Q. Please summarize FPL's methodology for determining equivalent availability**  
12 **targets?**

13 **A.** The GPIF Manual requires that the equivalent availability target for each unit be  
14 determined as the difference between 100% and the sum of the Planned Outage  
15 Factor (POF) and the Unplanned Outage Factor (UOF). The POF for each unit is  
16 determined by the length of the planned outage during the projected period. The  
17 GPIF Manual also requires that the sum of the most recent twelve month ending  
18 average forced outage factor (FOF) and maintenance outage factor (MOF) be used  
19 as the starting value for the determination of the target unplanned outage factor  
20 (UOF). The UOF is then adjusted to reflect recent unit performance and known  
21 unit modifications or equipment changes. This adjustment is applied to units which  
22 have had, during the historical period, or are forecasted to have, during the  
23 projection period, planned outages.  
24

1 forecasted system net generation for this period. These units were selected in accordance  
2 with the GPIF Manual Section 3.1, using the estimated net generation for each unit taken  
3 from the production costing simulation program, POWRSYM, which forms the basis for  
4 the projected levelized fuel cost recovery factor for the period.

5  
6 **Q. Mr. Silva, from the heat rate targets and equivalent availability range projections, do**  
7 **FPL's generation performance targets represent a reasonable level of efficiency?**

8 **A. Yes. These targets are reasonable and in some cases very challenging.**

9

10 **Q. Does this conclude your testimony?**

11 **A. Yes, it does.**

-

1           **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2                           **FLORIDA POWER & LIGHT COMPANY**

3                                   **TESTIMONY OF RENE SILVA**

4   **DOCKET NO. 980001-EI**

5   **OCTOBER 5, 1998**

6   **Q.**     **Please state your name address.**

7   **A.**     My name is Rene Silva My address is 700 Universe Boulevard, Juno  
8           Beach, Florida, 33408

9  
10 **Q.**     **By whom are you employed and what is your position?**

11 **A.**     I am employed by Florida Power & Light Company (FPL) as Manager  
12           of Planning, Forecasting and Regulatory Response in the Power  
13           Generation Business Unit.

14  
15 **Q.**     **Have you previously testified in this docket?**

16 **A.**     Yes.

17  
18 **Q.**     **What is the purpose of your testimony?**

19 **A.**     The purpose of my testimony is to present and explain FPL's projections  
20           for (1) dispatch costs of heavy fuel oil, light fuel oil, coal and natural  
21           gas, (2) availability of natural gas to FPL, (3) generating unit heat rates



1 and availabilities, and (4) quantities and costs of interchange and other  
2 power transactions. These projected values were used as input values to  
3 the POWRSYM model in the calculation of the proposed fuel cost  
4 recovery factor for the period January through December, 1999.

5

6 **Q. Have you prepared or caused to be prepared under your**  
7 **supervision, direction and control an Exhibit in this proceeding?**

8 A. Yes, I have. It consists of pages 1 through 13 of Appendix I of this  
9 filing.

10

11 **Q. In addition to the "Base Case" fuel price forecast, have you**  
12 **prepared alternative fuel price forecasts?**

13 A. Yes. In addition to the "Base Case" fuel price forecast, we have  
14 prepared - for fuel oil and natural gas supply - two alternate forecasts, a  
15 "Low" and a "High" price forecast.

16

17 **Q. Why did you prepare these "Low" and "High" forecasts for fuel oil**  
18 **and gas supply?**

19 A. The conditions that affect the prices of fuel oil and natural gas can  
20 change significantly between the time the forecast is developed and the  
21 date of the filing in October. While we do revise our short-term fuel  
22 price forecast each month - and more often, if needed - in order to

1 support fuel purchase decisions, it is not possible to wait until we have  
2 our early October fuel price forecast update to rerun our POWRSYM  
3 system simulation, in order to reflect the latest changes in fuel market  
4 conditions, and still meet our October 5 filing date. Furthermore, while  
5 FPL has, in the past, rerun its projections and re-filed its fuel cost  
6 recovery factor after its initial filing to reflect late changes in fuel  
7 market conditions, this approach does not provide the same flexibility to  
8 react to those changes that use of a banded forecast provides. Trying to  
9 incorporate such "last minute" changes puts us at risk of not having  
10 adequate time to produce new computer simulations and all of the  
11 associated documentation required for filing.

12

13 Therefore, in addition to the "Base Case" forecast to describe future fuel  
14 prices, FPL prepared "Low" and "High" fuel price forecasts to define a  
15 reasonable range of fuel oil and gas prices. We then used these alternate  
16 forecasts as inputs to the POWRSYM model to determine what the Fuel  
17 Factor would be if it were based on fuel prices at either end of this  
18 range. This gives us the flexibility to adopt the Fuel Factor that most  
19 appropriately reflects our view of future fuel oil and gas prices at the  
20 time of the projection filing.

21

22 **Q. Why did you prepare alternate forecasts for fuel oil and gas supply**

1           **only?**

2    A.    Because coal prices have been, and are expected to continue to be,  
3           steady, and gas transportation costs are well defined.

4

5    **Q.    How is your testimony organized?**

6    A.    My testimony first describes the basis for the "Base Case" fuel price  
7           forecast for oil, coal and gas, as well as the projection for gas  
8           availability. Then it describes the "Low" and "High" price forecasts for  
9           fuel oil and gas supply. Then my testimony addresses plant heat rates,  
10          outage factors, planned outages, and changes in generation capacity.  
11          Lastly, my testimony addresses projected interchange and purchased  
12          power transactions.

13

#### 14           **BASE CASE FUEL PRICE FORECAST**

15   **Q.    What are the key factors that could affect FPL's price for heavy**  
16          **fuel oil during the January through December, 1999 period?**

17   A.    The key factors are (1) demand for crude oil and petroleum products  
18          (including heavy fuel oil), (2) non-OPEC crude oil production, (3) the  
19          extent to which OPEC production matches actual demand for OPEC  
20          crude oil, (4) the price relationship between heavy fuel oil and crude oil,  
21          and (5) the terms of FPL's heavy fuel oil supply and transportation  
22          contracts.

1

2 In general, world demand for crude oil and petroleum products is  
3 projected to be higher in 1999 than in 1998 due to improved world  
4 economic conditions expected in 1999. Although crude oil supply,  
5 augmented by Iraqi oil exports and slightly higher OPEC production, is  
6 projected to meet this increase in demand, there will not be excess  
7 production, as has been the case in 1998. As a result, crude oil prices  
8 and consequently heavy fuel oil prices, for the January through  
9 December, 1999 period are projected to be somewhat higher than in  
10 1998.

11

12 **Q. What is the projected relationship between heavy fuel oil and crude**  
13 **oil prices during the January through December, 1999 period?**

14 **A.** The price of heavy fuel oil on the U S Gulf Coast (1.0% sulfur) is  
15 projected to be approximately 79% of the price of West Texas  
16 Intermediate (WTI) crude oil.

17

18 **Q. Please provide FPL's projection for the dispatch cost of heavy fuel**  
19 **oil for the January through December, 1999 period.**

20 **A.** FPL's Base Case projection for the system average dispatch cost of  
21 heavy fuel oil, by sulfur grade, by month, is provided on page 3 of  
22 Appendix I in dollars per barrel.

1

2 **Q. What are the key factors that could affect the price of light fuel oil?**

3 A. The key factors that affect the price of light fuel oil are similar to those  
4 described above for heavy fuel oil.

5

6 **Q. Please provide FPL's projection for the dispatch cost of light fuel oil  
7 for the period from January through December, 1999.**

8 A. FPL's Base Case projection for the average dispatch cost of light oil, by  
9 sulfur grade, by month, is shown on page 4 of Appendix I

10

11 **Q. What is the basis for FPL's projections of the dispatch cost of coal?**

12 A. FPL's projected dispatch cost of coal is based on FPL's price projection  
13 of spot coal delivered to its coal plants

14

15 For St. Johns River Power Park (SJRPP), annual coal volumes delivered  
16 under long-term contracts are fixed on October 1st of the previous year.

17 For Scherer Plant, the annual volume of coal delivered under long-term  
18 contracts is set by the terms of the contracts. Therefore, the price of coal

19 delivered under long-term contracts does not affect the daily dispatch  
20 decision. The dispatch price of coal for each coal plant is based on the

21 variable component of the coal cost, the projected spot coal price

22

1 In the case of SJRPP, FPL will continue to blend petroleum coke with  
2 the coal in order to reduce fuel costs. It is anticipated that petroleum  
3 coke will represent 18% of the fuel blend at SJRPP during 1999. The  
4 lower price of petroleum coke is reflected in the weighted average price  
5 of fuel delivered to SJRPP.

6  
7 **Q. Please provide FPL's projection for the dispatch cost of coal for the**  
8 **January through December, 1999 period.**

9 A. FPL's projected system average dispatch cost of coal, shown on page 5  
10 of Appendix I, ranges from \$1.56 to \$1.60 per million BTU, delivered  
11 to plant, for this period.

12  
13 **Q. What are the factors that can affect FPL's natural gas prices during**  
14 **the January through December, 1999 period?**

15 A. In general, the key factors are (1) domestic natural gas demand and  
16 supply, (2) natural gas imports, (3) heavy fuel oil prices and (4) the  
17 terms of FPL's gas supply and transportation contracts. For the January  
18 through December, 1999 period, the dominant factor influencing the  
19 projected price of natural gas is our perception that growth in natural gas  
20 deliverability from the U.S. Gulf Coast to the market will match the  
21 increase in demand. As a result, 1999 gas prices are projected to be very  
22 close to those in 1998.

1

2 **Q. What are the factors that affect the availability of natural gas to**  
3 **FPL during the January through December, 1999 period?**

4 **A.** The key factors are (1) the existing capacity of natural gas transportation  
5 facilities into Florida, (2) the portion of that capacity that is  
6 contractually allocated to FPL on a firm, "guaranteed" basis each month  
7 and (3) the natural gas demand in the State of Florida

8

9 The current capacity of natural gas transportation facilities into the State  
10 of Florida is 1,455,000 million BTU per day (including FPL's firm  
11 allocation of 455,000 to 630,000 million BTU per day during this  
12 period, depending on the month). Total demand for natural gas in the  
13 State during the period (including FPL's firm allocation) is projected to  
14 be between 80,000 and 235,000 million BTU per day below the  
15 pipeline's total capacity. This projected available pipeline capacity could  
16 enable FPL to acquire and deliver additional natural gas, beyond FPL's  
17 455,000 to 630,000 million BTU per day of firm, "guaranteed"  
18 allocation, should it be economically attractive, relative to other energy  
19 choices

20

21 **Q. Please provide FPL's projections for the dispatch cost and**  
22 **availability (to FPL) of natural gas for the January through**

1           **December, 1999 period.**

2   A.    FPL's Base Case projections of the system average dispatch cost and  
3           availability of natural gas are provided on page 6 of Appendix I.

4  
5           **"LOW" and "HIGH" PRICE FORECASTS FOR FUEL OIL AND**  
6           **GAS SUPPLY**

7   Q.    **What is the basis for the "Low" forecast for fuel oil and gas**  
8           **supply?**

9   A.    The "Low" forecast prices for fuel oil and gas supply were set such that  
10           based on the consensus among FPL's fuel buyers and analysts, there is  
11           less than a 15% likelihood that the actual price of each fuel for each  
12           month in the January through December, 1999 period will be below the  
13           "Low" price forecast.

14  
15   Q.    **Please provide the "Low" price forecasts for fuel oil and gas supply.**

16   A.    FPL's projection for the average dispatch cost of heavy fuel oil, by  
17           sulfur grade, by month, based on the "Low" price forecast is provided  
18           on page 7 of Appendix I, in dollars per barrel. FPL's projection for the  
19           average dispatch cost of light fuel oil based on the "Low" price forecast,  
20           by sulfur grade, by month, is shown on page 8 of Appendix I. FPL's  
21           projections of the system average dispatch cost of natural gas based on  
22           the "Low" price forecast are provided on page 9 of Appendix I.



1

2 **Q. What is the basis for the "High" forecast for fuel oil and gas**  
3 **supply?**

4 **A.** The "High" forecast prices for fuel oil and gas supply were set such that  
5 based on the consensus among FPL's fuel buyers and analysts, there is  
6 less than a 15% likelihood that the actual price of each fuel for each  
7 month in the January through December, 1999 period will be above the  
8 "High" price forecast.

9

10 **Q. Please provide the "High" price forecasts for fuel oil and gas**  
11 **supply.**

12 **A.** FPL's projection for the average dispatch cost of heavy fuel oil, by  
13 sulfur grade, by month, based on the "High" price forecast is provided  
14 on page 10 of Appendix I, in dollars per barrel. FPL's projection for the  
15 average dispatch cost of light fuel oil based on the "High" price forecast,  
16 by sulfur grade, by month, is shown on page 11 of Appendix I. FPL's  
17 projections of the system average dispatch cost of natural gas based on  
18 the "High" price forecast are provided on page 12 of Appendix I.

19

20 **Q. Based on FPL's current (October, 1998) view of the fuel oil and gas**  
21 **markets, at what level do you now project prices will be during the**  
22 **January through December, 1999 period ?**

23 **A.** Based on current market conditions, FPL now projects that actual fuel

1 oil and gas prices during the January through December, 1999 period  
2 will be very close to those projected in the Base Case forecast. In other  
3 words, fuel oil and gas prices are still projected to be closer to those in  
4 the "Base Case" forecast than to the "Low" or "High" forecast during  
5 1999. Therefore, the projected fuel costs calculated by POWRSYM  
6 using the "Base Case" oil and gas forecast are the most appropriate  
7 projected costs for the January through December, 1999 period. As  
8 stated in the testimony of Korel Dubin, this "Base Case" oil and gas  
9 forecast was used to calculate the proposed Fuel Factor for the period  
10 January through December, 1999.

11  
12 **PLANT HEAT RATES, OUTAGE FACTORS, PLANNED**  
13 **OUTAGES, and CHANGES IN GENERATING CAPACITY**

14 **Q. Please describe how you have developed the projected unit Average**  
15 **Net Operating Heat Rates shown on Schedule E4 of Appendix II.**

16 **A.** The projected Average Net Operating Heat Rates were calculated by the  
17 POWRSYM model. The current heat rate equations and efficiency  
18 factors for FPL's generating units, which present heat rate as a function  
19 of unit power level, were used as inputs to POWRSYM for this  
20 calculation. The heat rate equations and efficiency factors are updated  
21 as appropriate, based on historical unit performance and projected  
22 changes due to plant upgrades, fuel grade changes, or results of

1 performance tests

2

3 **Q. Are you providing the outage factors projected for the period**  
4 **January through December, 1999?**

5 **A.** Yes. This data is shown on page 13 of Appendix I

6

7 **Q. How were the outage factors for this period developed?**

8 **A.** The unplanned outage factors were developed using the actual historical  
9 full and partial outage event data for each of the units. The historical  
10 unplanned outage factor of each generating unit was adjusted, as  
11 necessary, to eliminate non-recurring events and recognize the effect of  
12 planned outages to arrive at the projected factor for the January through  
13 December, 1999 period.

14

15 **Q. Please describe significant planned outages for the January through**  
16 **December, 1999 period.**

17 **A.** Planned outages at our nuclear units are the most significant in relation  
18 to Fuel Cost Recovery. Turkey Point Unit No 4 is scheduled to be out  
19 of service for refueling from March 15, 1999, until April 19, 1999, or  
20 thirty-five days during the projected period. St. Lucie Unit No. 1 will be  
21 out of service for refueling from September 6, 1999, until October 11,  
22 1999, or thirty-five days during the projected period. There are no other

1 significant planned outages during the projected period

2

3 **Q. Are any changes to FPL's "continuous" generation capacity**  
4 **planned during the January through December, 1999 period?**

5 **A.** Yes, Net Winter Continuous Capability (NWCC) at Port Everglades  
6 Unit No.3 will increase by 15 MW, from 391 MW to 406 MW, and its  
7 Net Summer Continuous Capability will increase by 14 MW, from  
8 389 MW to 403 MW, as a result of refurbishing the unit's boiler and  
9 steam turbine

10

11 **INTERCHANGE and PURCHASED POWER TRANSACTIONS**

12 **Q. Are you providing the projected interchange and purchased power**  
13 **transactions forecasted for January through December, 1999?**

14 **A.** Yes. This data is shown on Schedules E6, E7, E8, and E9 of Appendix  
15 II of this filing

16

17 **Q. What fuel price forecast for fuel oil and gas supply was used to**  
18 **project interchange and purchased power transactions?**

19 **A.** The interchange and purchased power transactions presented below, and  
20 on Schedules E6, E7, E8 and E9 of Appendix II of this filing were  
21 developed using the "Base Case" fuel price forecast for fuel oil and gas  
22 supply.

1

2 **Q. In what types of interchange transactions does FPL engage?**

3 A. FPL purchases interchange power from others under several types of  
4 interchange transactions which have been previously described in this  
5 docket: Emergency - Schedule A, Short Term Firm - Schedule B,  
6 Economy - Schedule C; Extended Economy - Schedule X, Opportunity  
7 Sales - Schedule OS, UPS Replacement Energy - Schedule R and  
8 Economic Energy Participation - Schedule EP.

9

10 For services provided by FPL to other utilities, FPL has developed  
11 amended Interchange Service Schedules, including AF (Emergency),  
12 BF (Scheduled Maintenance), CF (Economy), DF (Outage), and XF  
13 (Extended Economy). These amended schedules replace and supersede  
14 existing Interchange Service Schedules A, B, C, D, and X for services  
15 provided by FPL.

16

17 **Q. Does FPL have arrangements other than interchange agreements  
18 for the purchase of electric power and energy which are included in  
19 your projections?**

20 A. Yes. FPL purchases coal-by-wire electrical energy under the 1988 Unit  
21 Power Sales Agreement (UPS) with the Southern Companies. FPL has  
22 contracts to purchase nuclear energy under the St. Lucie Plant Nuclear

1 Reliability Exchange Agreements with Orlando Utilities Commission  
2 (OUC) and Florida Municipal Power Agency (FMPA) FPL also  
3 purchases energy from JEA's portion of the SJRPP Units. Additionally,  
4 FPL purchases energy and capacity from Qualifying Facilities under  
5 existing tariffs and contracts.

6  
7 **Q. Please provide the projected energy costs to be recovered through**  
8 **the Fuel Cost Recovery Clause for the power purchases referred to**  
9 **above during the January through December, 1999 period.**

10 **A. Under the UPS agreement FPL's capacity entitlement during the**  
11 **projected period is 914 MW from January through December, 1999.**  
12 **Based upon the alternate and supplemental energy provisions of UPS,**  
13 **an availability factor of 100% is applied to these capacity entitlements to**  
14 **project energy purchases. The projected UPS energy (unit) cost for this**  
15 **period, used as an input to POWRSYM, is based on data provided by**  
16 **the Southern Companies. For the period, FPL projects the purchase of**  
17 **5,882,729 MWH of UPS Energy at a cost of \$73,958,970. In addition,**  
18 **we project the purchase of 940,412 MWH of UPS Replacement energy**  
19 **(Schedule R) at a cost of \$16,208,390. The total UPS Energy plus**  
20 **Schedule R projections are presented on Schedule E7 of Appendix II**

21  
22 Energy purchases from the JEA-owned portion of the St. Johns River  
23 Power Park generation are projected to be 3,028,551 MWH for the

1 period at an energy cost of \$41,323,250. FPL's cost for energy  
2 purchases under the St. Lucie Plant Reliability Exchange Agreements is  
3 a function of the operation of St. Lucie Unit 2 and the fuel costs to the  
4 owners. For the period, we project purchases of 534,467 MWH at a  
5 cost of \$2,066,100. These projections are shown on Schedule E7 of  
6 Appendix II.

7 In addition, as shown on Schedule E8 of Appendix II, we project that  
8 purchases from Qualifying Facilities for the period will provide  
9 8,274,232 MWH at a cost to FPL of \$143,838,067

10

11 **Q. How were energy costs related to purchases from Qualifying**  
12 **Facilities developed?**

13 A. For those contracts that entitle FPL to purchase "as-available" energy  
14 we used FPL's fuel price forecasts as inputs to the POWRSYM model to  
15 project FPL's avoided energy cost that is used to set the price of these  
16 energy purchases each month. For those contracts that enable FPL to  
17 purchase firm capacity and energy, the applicable Unit Energy Cost  
18 mechanism prescribed in the contract is used to project monthly energy  
19 costs.

20

21 **Q. Have you projected Schedule A/AF - Emergency Interchange**  
22 **Transactions?**

1 A. No purchases or sales under Schedule A/AF have been projected since it  
2 is not practical to estimate emergency transactions

3

4 **Q. Have you projected Schedule B/BF - Short-Term Firm Interchange  
5 Transactions?**

6 A. No commitment for such transactions had been made when projections  
7 were developed. Therefore, we have estimated that no Schedule BF  
8 sales or Schedule B purchases would be made in the projected period

9

10 **Q. Please describe the method used to forecast the Economy  
11 Transactions.**

12 A. The quantity of economy sales and purchase transactions are projected  
13 based upon historic transaction levels, adjusted to remove non-recurring  
14 factors.

15

16 **Q. What are the forecasted amounts and costs of Economy energy  
17 sales?**

18 A. We have projected 774,081 MWH of Economy energy sales for the  
19 period. The projected fuel cost related to these sales is \$19,213,617.  
20 The projected transaction revenue from the sales is \$24,365,391. Eighty  
21 percent of the gain for Schedule C is \$4,121,419 and is credited to our  
22 customers.



1

2 **Q. In what document are the fuel costs of economy energy sales**  
3 **transactions reported?**

4

5 **A.** Schedule E6 of Appendix II provides the total MWH of energy and total  
6 dollars for fuel adjustment. The 80% of gain is also provided on  
7 Schedule E6 of Appendix II.

8

9 **Q. What are the forecasted amounts and costs of Economy energy**  
10 **purchases for the January to December, 1999 period?**

11 **A.** The costs of these purchases are shown on Schedule E9 of Appendix II.  
12 For the period FPL projects it will purchase a total of 3,697,302 MWH  
13 at a cost of \$69,178,210. If generated, we estimate that this energy  
14 would cost \$80,780,263. Therefore, these purchases are projected to  
15 result in savings of \$11,602,053.

16

17 **Q. What are the forecasted amounts and cost of energy being sold**  
18 **under the St. Lucie Plant Reliability Exchange Agreement?**

19 **A.** We project the sale of 534,503 MWH of energy at a cost of \$1,966,890  
20 These projections are shown on Schedule E6 of Appendix II.

21

22

1           **SUMMARY**

2   **Q.    Would you please summarize your testimony?**

3   **A.    Yes. In my testimony I have presented FPL's fuel price projections for**  
4           the fuel cost recovery period of January through December, 1999,  
5           including FPL's "Low" and "High" price forecasts for fuel oil and gas  
6           supply. I have stated that the projected fuel costs developed using the  
7           "Base Case" forecast are the most appropriate for the January through  
8           December, 1999 period. In addition, I have presented FPL's projections  
9           for generating unit heat rates and availabilities, and the quantities and  
10          costs of interchange and other power transactions for the same period.  
11          These projections were based on the best information available to FPL,  
12          and were used as inputs to the POWRSYM model in developing the  
13          projected Fuel Cost Recovery Factor for the January through December,  
14          1999 period.

15

16 **Q.    Does this conclude your testimony?**

17 **A.    Yes, it does**

## BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

## FLORIDA POWER &amp; LIGHT COMPANY

## TESTIMONY OF R. L. WADE

DOCKET NO. 980001-EI

October 5, 1998

1 Q. Please state your name and address.

2 A. My name is Robert L. Wade. My business address is  
3 700 Universe Boulevard, Juno Beach, Florida 33408.

4

5 Q. By whom are you employed and what is your position?

6 A. I am employed by Florida Power & Light Company  
7 (FPL) as Director, Business Services in the Nuclear  
8 Business Unit.

9

10 Q. Have you previously testified in this docket?

11 A. Yes, I have.

12

13 Q. What is the purpose of your testimony?

14 A. The purpose of my testimony is to present and  
15 explain FPL's projections of nuclear fuel costs for  
16 the thermal energy (MMBTU) to be produced by our  
17 nuclear units and costs of disposal of spent

1 nuclear fuel. Both of these costs were input values  
2 to PROSYM for the calculation of the proposed fuel  
3 cost recovery factor for the period January 1999  
4 through December 1999.

5

6 Q. What is the basis for FPL's projections of nuclear  
7 fuel costs?

8 A. FPL's nuclear fuel cost projections are developed  
9 using energy production at our nuclear units and  
10 their operating schedules, consistent with those  
11 assumed in PROSYM, for the period January 1999  
12 through December 1999.

13

14 Q. Please provide FPL's projection for nuclear fuel  
15 unit costs and energy for the period January 1999  
16 through December 1999.

17 A. FPL projects the nuclear units will produce  
18 257,157,502 MBTU of energy at a cost of \$0.3281 per  
19 MMBTU, excluding spent fuel disposal costs for the  
20 period January 1999 through December 1999.  
21 Projections by nuclear unit and by month are  
22 provided on Schedule E-4 of Appendix II.

1 Q. Please provide FPL's projections for nuclear spent  
2 fuel disposal costs for the period January 1999  
3 through December 1999 and what is the basis for  
4 FPL's projections.

5 A. FPL's projections for nuclear spent fuel disposal  
6 costs are provided on Schedule E-2 of Appendix II.  
7 These projections are based on FPL's contract with  
8 the U.S. Department of Energy (DOE), which sets the  
9 spent fuel disposal fee at 1 mill per net Kwh  
10 generated minus transmission and distribution line  
11 losses.

12

13 Q. Please provide FPL's projection for Decontamination  
14 and Decommissioning (D&D) costs to be paid in the  
15 period January 1999 through December 1999 and what  
16 is the basis for FPL's projection.

17 A. FPL's projection of \$5.75M for D&D costs to be paid  
18 during the Period January 1999 through December  
19 1999 is included on Schedule E-2 of Appendix II.

20

21 Q. Are there currently any unresolved disputes under  
22 FPL's nuclear fuel contracts?

1 A. Yes. As reported in prior testimonies, there are  
2 two unresolved disputes.

3

4 1. Spent Fuel Disposal Dispute. The first  
5 dispute is under FPL's contract with DOE for final  
6 disposal of spent nuclear fuel. FPL, along with a  
7 number of electric utilities, states, and state  
8 regulatory agencies filed suit against DOE over  
9 DOE's denial of its obligation to accept spent  
10 nuclear fuel beginning in 1998. On July 23, 1996,  
11 the U.S. Court of Appeals for the District of  
12 Columbia Circuit (D.C. Circuit) held that DOE is  
13 required by the Nuclear Waste Policy Act (NWPA) to  
14 take title and dispose of spent nuclear fuel from  
15 nuclear power plants beginning on January 31, 1998.  
16 DOE declined to seek further review of the  
17 decision, which was remanded to DOE for further  
18 proceedings. On December 17, 1996, DOE advised the  
19 electric utilities that it would not begin to  
20 dispose of spent nuclear fuel by the unconditional  
21 deadline.

22 In response to DOE's letter, FPL, other electric  
23 utilities, states, and state utility commissions

1       petitioned the D.C. Circuit for an order  
2       authorizing the suspension of payments into the  
3       Nuclear Waste Fund (NWF) without prejudice to the  
4       utilities' contract rights until DOE performs on  
5       its unconditional obligation to take title to and  
6       dispose of spent nuclear fuel. The petitioners also  
7       requested an order requiring DOE to begin disposing  
8       of spent nuclear fuel by January 31, 1998 or in the  
9       alternative, directing DOE to develop a program  
10      that would enable the agency to begin disposing of  
11      spent nuclear fuel by January 31, 1998. (Northern  
12      States Power Co. v. DOE).

13

14      While the petition was pending, and before oral  
15      argument, DOE issued a letter on June 3, 1997 to  
16      all electric utilities with nuclear plants that  
17      have contracts with DOE for spent fuel disposal  
18      asserting its preliminary position that the delay  
19      in disposal of spent nuclear fuel was  
20      "unavoidable." Based on this conclusion, DOE  
21      asserted that it was not responsible for delays in  
22      disposal of spent nuclear fuel.

23

1 On November 14, 1997, a panel of the D.C. Circuit  
2 granted the mandamus petition in part, finding that  
3 DOE did not abide by the Court's earlier ruling  
4 that the NWPA imposes an unconditional obligation  
5 on DOE to begin disposal of spent fuel by January  
6 31, 1998. The writ of mandamus precludes DOE from  
7 excusing its own delay on the grounds that it has  
8 not yet prepared a permanent repository or interim  
9 storage facility. The Court did not grant the other  
10 requests for relief. The Court stated in its  
11 decision that the utility contract holders should  
12 pursue remedies against DOE in the appropriate  
13 forum.

14  
15 On May 5, 1998, the D.C. Circuit denied petitions  
16 for rehearing filed by DOE and Yankee Atomic  
17 Electric Company. The Court also denied requests  
18 by all other petitioners in the Northern States  
19 Power case for an order requiring DOE to begin  
20 spent fuel disposal.

21 On August 3, 1998, the states and state utility  
22 commissions that were parties in the Northern  
23 States Power case filed a petition for a writ of



1 certiorari with the U.S. Supreme Court. The state  
2 petitioners requested the Court to review the D.C.  
3 Circuit's decision that it lacked the authority to  
4 order DOE to begin spent fuel disposal. On  
5 September 1, 1998, DOE filed a petition for a writ  
6 of certiorari with the U.S. Supreme Court,  
7 maintaining that the D.C. Circuit lacked  
8 jurisdiction to prohibit DOE from invoking the  
9 "unavoidable delays" provision of the standard  
10 contract. DOE contends that the Court of Federal  
11 Claims has exclusive jurisdiction to consider  
12 contract claims against the United States. FPL is  
13 considering filing a brief opposing DOE's petition.  
14 This brief must be submitted by October 3, 1998,  
15 if no extension of time is granted.

16  
17 On June 8, 1998, FPL filed a lawsuit against DOE in  
18 the U.S. Court of Federal Claims, claiming in  
19 excess of \$300,000,000 in damages arising out of  
20 DOE's failure to begin spent fuel disposal on  
21 January 31, 1996. On July 31, 1998, DOE filed a  
22 motion to dismiss FPL's lawsuit on grounds that FPL  
23 failed to exhaust its administrative remedies prior

1 to filing the lawsuit and should have first filed a  
2 claim with DOE's Contracting Officer. FPL filed  
3 its opposition to DOE's motion on August 31, 1998,  
4 in which the Company argued that cases involving  
5 outright breaches of government contracts by the  
6 government can be brought directly in the Court of  
7 Federal Claims. It is likely that the Court will  
8 hear argument on the motion and issue a decision  
9 before the end of 1998. It is possible that the  
10 decision of the Court of Federal Claims on the  
11 jurisdictional issue could be certified for  
12 interlocutory review by the U.S. Court of Appeals  
13 for the Federal Circuit.

14  
15 2(a). Uranium Enrichment Pricing Disputes - FY 1993  
16 Overcharges. Secondly, FPL is currently seeking to  
17 resolve a pricing dispute concerning uranium  
18 enrichment services purchased from the United  
19 States (U.S.) Government, prior to July 1, 1993.  
20 FPL's contract for enrichment services with the  
21 U.S. Government calls for pricing to be calculated  
22 in accordance with "Established DOE Pricing  
23 Policy". Such policy had always been one of cost

1 recovery, which included costs related to the  
2 Decontamination and Decommissioning (D&D) of the  
3 DOE's enrichment facilities. However, the Energy  
4 Policy Act of 1992 (The Act) requires utilities to  
5 make separate payments to the U.S. Treasury for  
6 D&D, starting in Fiscal Year 1993. FPL has been  
7 making such payments. Therefore, D&D should not  
8 have been included in the price charged by DOE for  
9 deliveries during Fiscal Year 1993, and the price  
10 should have been reduced accordingly. FPL filed a  
11 claim with the DOE Contracting Officer on July 14,  
12 1995, for a refund for such deliveries. On October  
13 13, 1995, the DOE Contracting Officer officially  
14 rejected FPL's claim. On October 11, 1996, FPL,  
15 along with five other U.S. utilities and one  
16 foreign entity, appealed DOE's rejection of the  
17 Fiscal Year 1993 overcharge claim with the U.S.  
18 Court of Federal Claims (FPL v. DOE).

19

20 On August 12, 1998, the Court of Federal Claims  
21 dismissed FPL's complaint, holding that the  
22 complaint was barred because the issue should have  
23 been raised in an earlier lawsuit filed by FPL and

1 other utilities against the U.S. Enrichment  
2 Corporation. The Court ruled that the DOE  
3 overcharges were part of a pricing claim raised by  
4 FPL and other utilities against the government's  
5 uranium enrichment enterprise, the U.S. Enrichment  
6 Corporation, created by the Act in 1992. In that  
7 case (Centerior v. USEC), FPL claimed that USEC had  
8 charged too much for uranium enrichment services.  
9 While FPL settled its claim against USEC, the Court  
10 of Federal Claims ultimately ruled against the  
11 utility claimants. The Court in FPL v. DOE held  
12 that FPL should have raised the DOE overpricing  
13 issue in the Centerior litigation, and was now  
14 barred from raising that claim for failing to raise  
15 it before.

16  
17 FPL believes that the Court overlooked significant  
18 differences between the overcharges, which involve  
19 different agencies, different time periods, and  
20 different statutory mandates governing the legality  
21 of the pricing claims. Since the claims are  
22 different, FPL believes that it should not be  
23 barred from raising the 1993 overcharge claim

1       against DOE. FPL has until October 9, 1998 to  
2       appeal the decision of the Court of Federal Claims  
3       to the U.S. Court of Appeals for the Federal  
4       Circuit.

5  
6       2(b). Uranium Enrichment Pricing Disputes -  
7       Challenge to D&D Assessment. In a related case,  
8       Yankee Atomic Electric Company had challenged the  
9       authority of the United States to impose the D&D  
10      fees. On May 6, 1997, a panel of the U.S. Court of  
11      Appeals for the Federal Circuit held that the D&D  
12      special assessment was lawful under the Energy  
13      Policy Act. United States v. Yankee Atomic Electric  
14      Co. A lower court had ruled that the D&D special  
15      assessment was unlawful. On August 15, 1997, the  
16      full panel of the Federal Circuit denied Yankee's  
17      request for rehearing. On June 26, 1998, the U.S.  
18      Supreme Court denied Yankee's petition for a writ  
19      of certiorari.

20      FPL believes that the Yankee decision is not  
21      necessarily dispositive of its claims against the  
22      Government challenging the D&D assessment. As a  
23      protective measure, on July 27, 1998, FPL filed a

1 claim before DOE's Contracting Officer and on July  
2 29, 1998, a complaint with the U.S. Court of  
3 Federal Claims challenging the D&D assessment on  
4 grounds that the D&D assessment is an impermissible  
5 retroactive adjustment to previous fixed price  
6 uranium enrichment service contracts.

7

8 In addition, FPL has joined a complaint filed by 21  
9 U.S. utilities in the U.S. District Court for the  
10 Southern District of New York challenging the D&D  
11 assessment as a violation of the due process clause  
12 of the Fifth Amendment to the U.S. Constitution.  
13 (Consolidated Edison Co. v. United States).

14

15 The Government has moved for a stay of discovery in  
16 the Consolidated Edison case pending resolution of  
17 the challenges to the D&D assessment in the Court  
18 of Federal Claims.

19

20 Q. Does this conclude your testimony?

21 A. Yes, it does.

1                                    **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**2                                    **FLORIDA POWER & LIGHT COMPANY**3                                    **TESTIMONY OF KOREL M. DUBIN**4                                    **DOCKET NO. 980001-EI**5                                    **May 27, 1998**

6

7

8    **Q.    Please state your name, business address, employer and position.**

9    A.    My name is Korel M. Dubin, and my business address is 9250 West Flagler  
10       Street, Miami, Florida, 33174. I am employed by Florida Power & Light  
11       Company (FPL) as Principal Rate Analyst in the Rates and Tariff  
12       Administration Department.

13

14   **Q.    Have you previously testified in this docket?**

15   A.    Yes, I have.

16

17   **Q.    What is the purpose of your testimony in this proceeding?**

18   A.    The purpose of my testimony is to present the schedules necessary to  
19       support the actual Fuel Cost Recovery Clause (FCR) and Capacity Cost  
20       Recovery Clause (CCR) Net True-Up amounts for the period October 1997  
21       through March 1998. The Net True-Up for the FCR is an overrecovery,  
22       including interest, of \$13,491,202. The Net True-Up for the CCR is an  
23       overrecovery, including interest, of \$11,771,496. I am requesting

1 Commission approval to include these true-up amounts in the calculation of  
2 the FCR and CCR factors respectively, for the period January 1999 through  
3 December 1999.

4  
5 **Q. Have you prepared or caused to be prepared under your direction,**  
6 **supervision or control an exhibit in this proceeding?**

7 A. Yes, I have. It consists of two appendices. Appendix I contains the FCR  
8 related schedules and Appendix II contains the CCR related schedules. FCR  
9 Schedules A-1 through A-13 for the October 1997 through March 1998 period  
10 have been filed monthly with the Commission and served on all parties.  
11 These schedules are incorporated herein by reference.

12  
13 **Q. What is the source of the data which you will present by way of**  
14 **testimony or exhibits in this proceeding?**

15 A. Unless otherwise indicated, the actual data is taken from the books and  
16 records of FPL. The books and records are kept in the regular course of our  
17 business in accordance with generally accepted accounting principles and  
18 practices, and provisions of the Uniform System of Accounts as prescribed by  
19 this Commission.



**FUEL COST RECOVERY CLAUSE (FCR)**

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**Q. Please explain the calculation of the Net True-up Amount.**

A. Appendix I, page 3, entitled "Summary of Net True-Up", shows the calculation of the Net True-Up for the six-month period October 1997 through March 1998, an overrecovery of \$13,491,202, which I am requesting be included in the calculation of the Fuel Cost Recovery Factor for the period January 1999 through December 1999. The calculation of the true-up amount for the period follows the procedures established by this Commission as set forth on Commission Schedule A-2 "Calculation of True-Up and Interest Provision".

The actual End-of-Period underrecovery for the six-month period October 1997 through March 1998 of \$57,636,177 shown on line 1, less the estimated/actual End-of-Period underrecovery for the same period of \$71,127,379 shown on line 2 that was included in the calculation of the Fuel Cost Recovery Factor for the period April 1998 through December 1998, results in the Net True-Up for the six-month period October 1997 through March 1998 shown on line 3, an overrecovery of \$13,491,202.

**Q. Have you provided a schedule showing the variances between actuals and estimated/actuals?**

A. Yes. Appendix I, page 4, entitled "Calculation of Final True-up Variances", shows the actual fuel costs and revenues compared to the estimated/actuals

1 for the period October 1997 through March 1998.

2

3 **Q. What was the variance in fuel costs?**

4 A. As shown on Appendix I, page 4, line A7, actual fuel costs on a Total  
5 Company basis were \$39.3 million lower than the estimated/actual projection.

6 This variance is primarily due to a \$17.3 million decrease in Energy  
7 Payments to Qualifying Facilities, a \$13.2 million decrease in the Energy Cost  
8 of Economy Purchases and a \$7.5 million decrease in the Fuel Cost of  
9 Purchased Power.

10

11 The \$17.3 million decrease in Energy Payments to Qualifying Facilities is due  
12 to QF purchases being approximately 740,000 MWHs lower than projected.  
13 Energy Cost of Economy Purchases is \$13.2 million lower than projected  
14 since purchases were 615,000 MWHs less than projected due to limited  
15 availability of low cost economy energy. Fuel Costs of Purchased Power is  
16 \$7.5 million lower than projected since UPS purchases from Southern were  
17 approximately 350,000 MWH lower than projected and purchases from  
18 SJRPP were 110,000 MWH lower than estimated due to a change in  
19 maintenance outage dates.

20

21 **Q. What was the variance in retail (jurisdictional) Fuel Cost Recovery**  
22 **revenues?**

23 A. As shown on line D1, actual jurisdictional Fuel Cost Recovery revenues, net

1 of revenue taxes, were \$25,781,453 lower than the estimated/actual  
2 projection. This decrease was due to lower jurisdictional kWh sales.  
3 Jurisdictional sales were 4.1% lower than the estimated/actual projection.  
4

5 **Q. How is Real Time Pricing (RTP) reflected in the calculation of the Net**  
6 **True-up Amount?**

7 A. In the determination of Jurisdictional kWh sales, only kWh sales associated  
8 with RTP baseline load are included, consistent with projections (Appendix I,  
9 page 4, Line C3). In the determination of Jurisdictional Fuel Costs, revenues  
10 associated with RTP incremental kWh sales are included as 100% Retail  
11 (Appendix I, page 4, Line D4c) in order to offset incremental fuel used to  
12 generate these kWh sales.  
13  
14

15 **CAPACITY COST RECOVERY CLAUSE (CCR)**  
16

17 **Q. Please explain the calculation of the Net True-up Amount.**

18 A. Appendix II, page 3, entitled "Summary of Net True-Up Amount" shows the  
19 calculation of the Net True-Up for the twelve-month period April 1997 through  
20 December 1998, an overrecovery of \$11,771,496, which I am requesting to  
21 be included in the next projection period.  
22

23 On January 12, 1998 FPL requested a Capacity Cost Recovery midcourse

1 correction of \$63.4 million which the Commission approved in Order PSC-98-  
2 0412-FOF-EI at the February 1998 hearing. The \$63.4 million midcourse  
3 correction included an Estimated/Actual overrecovery of \$45.4 million for the  
4 period April 1997 through March 1998 (Final True-Up April 97–September 97,  
5 \$36.1 million plus Estimated/Actual True-Up October 97–March 98, \$9.3  
6 million) and approximately \$18.0 million for costs associated with capacity  
7 payments for Osceola and Okeelanta QF's that were included in the original  
8 projections for April 1998 through September 1998.

9  
10 The actual End-of-Period overrecovery for the six-month period ended  
11 September 1997 of \$36,119,698 was already included in the factor for the  
12 period April 1998 through December 1998 as part of the midcourse  
13 correction. This \$36,119,698 shown on line 1, plus the true-up overrecovery  
14 of \$21,096,113 for the six-month period ended March 1998 shown on line 2,  
15 less the balance of \$45,444,316 from the midcourse correction shown on line  
16 3, results in the overrecovery of \$11,771,496 shown on line 4. This  
17 \$11,771,496 true-up is the net overrecovery to be carried forward to the  
18 January 1999 through December 1999 period.

19  
20 **Q. Have you provided a schedule showing the calculation of the End-of-**  
21 **Period true-up?**

22 **A. Yes. Appendix II, page 4, entitled "Calculation of Final True-up Amount",**  
23 **shows the calculation of the CCR End-of period true-up for the six-month**

1 period October 1997 through March 1998. The End of-Period true-up shown  
2 on line 17 plus line 18 is an overrecovery of \$21,096,113.

3  
4 **Q. Is this true-up calculation consistent with the true-up methodology used**  
5 **for the other cost recovery clauses?**

6 A. Yes it is. The calculation of the true-up amount follows the procedures  
7 established by this Commission as set forth on Commission Schedule A-2  
8 "Calculation of True-Up and Interest Provision" for the Fuel Cost Recovery  
9 Clause.

10  
11 **Q. Have you provided a schedule showing the variances between actuals**  
12 **and estimated/actuals?**

13 A. Yes. Appendix II, page 5, entitled "Calculation of Final True-up Variances",  
14 shows the actual capacity charges and applicable revenues compared to the  
15 estimated/actuals for the period October 1997 through March 1998.

16  
17 **Q. What was the variance in net capacity charges?**

18 A. As shown on line 7, actual net capacity charges on a Total Company basis  
19 were \$10.9 million lower than the estimated/actual projection. This variance  
20 was primarily due to lower than expected payments to non-cogenerators,  
21 lower than expected payments to cogenerators and higher than expected  
22 revenues from capacity sales.

23

1            Payments to non-cogenerators were \$4.1 million lower than projected due to  
2            capacity rates being lower than expected as a result of lower than forecasted  
3            plant investment and fixed expenses. Additionally, payments to cogenerators  
4            were lower than anticipated causing a \$3.7 million variance. Revenues from  
5            capacity sales were \$3.4 million higher than projected due to Opportunity  
6            Sales being greater than projected for the period.

7  
8            **Q.    What was the variance in Capacity Cost Recovery revenues?**

9            A.    As shown on line 12, actual Capacity Cost Recovery revenues, net of  
10           revenue taxes, were \$1.0 million lower than the estimated/actual projection.  
11           This decrease was primarily due to lower jurisdictional kWh sales than  
12           projected. Jurisdictional sales were 4.1% lower than the estimated/actual  
13           projection.

14  
15           **Q.    Does this conclude your testimony?**

16           A.    Yes, it does.

1           **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2                           **FLORIDA POWER & LIGHT COMPANY**

3                                   **TESTIMONY OF KOREL M. DUBIN**

4   **DOCKET NO. 980001-EI**

5   **October 5, 1998**

6

7   **Q.    Please state your name and address.**

8    A.    My name is Korel M. Dubin and my business address is 9250 West  
9           Flagler Street, Miami, Florida 33174.

10

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

12 A.    I am employed by Florida Power & Light Company (FPL) as Principal  
13       Rate Analyst in the Rates and Tariff Administration Department.

14

15 **Q.    Have you previously testified in this docket?**

16 A.    Yes, I have.

17

18 **Q.    What is the purpose of your testimony?**

19 A.    The purpose of my testimony is to present for Commission review and  
20       approval the fuel factors and the capacity payment factors for the  
21       Company's rate schedules for the period January 1999 through  
22       December 1999. The calculation of the fuel factors is based on  
23       projected fuel cost and operational data as set forth in Commission  
24       Schedules E1 through E10, H1 and other exhibits filed in this

1 proceeding and data previously approved by the Commission. I am  
2 also providing projections of avoided energy costs for purchases from  
3 small power producers and cogenerators and an updated ten year  
4 projection of Florida Power & Light Company's annual generation mix  
5 and fuel prices.

6  
7 In addition, my testimony presents the schedules necessary to support  
8 the calculation of the Estimated/Actual True-up amounts for the Fuel  
9 Cost Recovery Clause (FCR) and the Capacity Cost Recovery Clause  
10 (CCR) for the period April 1998 through December 1998.

11

12 **Q. Have you prepared or caused to be prepared under your**  
13 **direction, supervision or control an exhibit in this proceeding?**

14 A. Yes, I have. It consists of various schedules included in Appendices  
15 II and III. Appendix II contains the FCR related schedules and  
16 Appendix III contains the CCR related schedules.

17

18 FCR Schedules A-1 through A-13 for April 1998 through August 1998  
19 have been filed monthly with the Commission, are served on all parties  
20 and are incorporated herein by reference.

21

22 **Q. What is the source of the data that you will present by way of**  
23 **testimony or exhibits in this proceeding?**

24 A. Unless otherwise indicated, the actual data is taken from the books



1 and records of FPL. The books and records are kept in the regular  
2 course of our business in accordance with generally accepted  
3 accounting principles and practices and provisions of the Uniform  
4 System of Accounts as prescribed by this Commission.

5

6

#### FUEL COST RECOVERY CLAUSE

7

8 **Q. What is the proposed levelized fuel factor for which the Company**  
9 **requests approval?**

10 A. 1.976¢ per kWh. Schedule E1, Page 3 of Appendix II shows the  
11 calculation of this twelve-month levelized fuel factor. Schedule E2,  
12 Pages 10 and 11 of Appendix II indicates the monthly fuel factors for  
13 January 1999 through December 1999 and also the twelve-month  
14 levelized fuel factor for the period.

15

16 **Q. Has the Company developed a twelve-month levelized fuel factor**  
17 **for its Time of Use rates?**

18 A. Yes. Schedule E1-D, Page 8 of Appendix II provides a twelve-month  
19 levelized fuel factor of 2.136¢ per kWh on-peak and 1.908¢ per kWh  
20 off-peak for our Time of Use rate schedules.

21

22 **Q. Were these calculations made in accordance with the procedures**  
23 **previously approved in this Docket?**

24 A. Yes, they were.

1 **Q. What adjustments are included in the calculation of the twelve-**  
2 **month levelized fuel factor shown on Schedule E1, Page 3 of**  
3 **Appendix II?**

4 **A.** As shown on line 29 of Schedule E1, Page 3, of Appendix II the  
5 estimated/actual fuel cost underrecovery for the April 1998 through  
6 December 1998 period amounts to \$129,170,389. This  
7 estimated/actual underrecovery for the April 1998 through December  
8 1998 period plus the final overrecovery of \$13,491,202 for the October  
9 1997 through March 1998 period results in a total underrecovery of  
10 \$115,679,187. This amount, divided by the projected retail sales of  
11 83,614,989 MWH for January 1999 through December 1999 results  
12 in an increase of 0.1383¢ per kWh before applicable revenue taxes.  
13 In his testimony for the Generating Performance Incentive Factor,  
14 FPL Witness R. Silva calculated a reward of \$9,353,960 for the period  
15 ending September 1997 which is being applied to the January 1999  
16 through December 1999 period. This \$9,353,960 divided by the  
17 projected retail sales of 83,614,989 MWH during the projected period,  
18 results in an increase of 0.0112¢ per kWh, as shown on line 33 of  
19 Schedule E1, Page 3 of Appendix II.

20  
21 **Q. Please explain the calculation of the FCR Estimated/Actual True-**  
22 **up amount you are requesting this Commission to approve.**

23 **A.** Schedule E1-B, Page 5 of Appendix II shows the calculation of the  
24 FCR Estimated/Actual True-up amount. The calculation of the

1 estimated/actual true-up amount for the period April 1998 through  
2 December 1998 is an underrecovery, including interest, of  
3 \$129,170,389 (Column 10, lines C7 plus C8). This amount, when  
4 combined with the Final True-up overrecovery of \$13,491,202  
5 (Column 10, line C9a) deferred from the period October 1997 through  
6 March 1998, presented in my Final True-up testimony filed on May 27,  
7 1998, results in the End of Period underrecovery of \$115,679,187  
8 (Column 10, line C11).

9

10 This schedule also provides a summary of the Fuel and Net Power  
11 Transactions (lines A1 through A7), kWh Sales (lines B1 through B3),  
12 Jurisdictional Fuel Revenues (line C1 through C3), the True-up and  
13 Interest Provision (lines C4 through C10) for this period, and the End  
14 of Period True-up amount (line C11).

15

16 The data for April 1998 through August 1998, columns (1) through (5)  
17 reflects the actual results of operations and the data for September  
18 1998 through December 1998, columns (6) through (9), are based on  
19 updated estimates.

20

21 The variance calculation of the Estimated/Actual data compared to the  
22 original projections for the April 1998 through December 1998 period  
23 is provided in Schedule E1-B-1, Page 6 of Appendix II.

24

1 As shown on line A5, the variance in Total Fuel Costs and Net Power  
2 Transactions is \$154.2 million or a 13.8% increase from original  
3 projections. This variance is mainly due to a \$140 million increase in  
4 the Fuel Cost of System Net Generation, a \$14 million increase in the  
5 Fuel Cost of Purchased Power, and a \$20 million increase in Energy  
6 Payments to Qualifying Facilities. These amounts are offset by a \$7.0  
7 million decrease in the Energy Cost of Economy Purchases and a  
8 \$13.0 million increase in the Fuel Cost of Power Sold.

9  
10 The increase in the Fuel Cost of System Net Generation is primarily  
11 due to higher than projected costs of heavy oil and natural gas, which  
12 are slightly offset by lower than projected cost of coal. The heavy oil  
13 variance is approximately \$114 million caused primarily by 27% higher  
14 than projected use of oil due to the extreme hot weather during the  
15 period. Additionally, there is an approximate \$29 million variance in  
16 natural gas caused primarily by a 13% increase in the unit cost of gas.

17 The increase in the Fuel Cost of Purchased Power was primarily due  
18 to higher than projected UPS purchases from Southern Company  
19 (586,000 MWH). The increase in Energy Payments to Qualifying  
20 Facilities was primarily due to greater than expected deliveries from  
21 the Indiantown Cogeneration Limited (ICL) and Cedar Bay facilities  
22 (438,000 MWH) for the period. Additionally, the qualifying facilities fuel  
23 costs were slightly higher than projected. All of these were the result  
24 of the extreme hot weather during the period. The decrease in the

1 Energy Cost of Economy Purchases was primarily due to lower than  
2 projected economy purchases (625,000 MWH) as a result of hot  
3 weather in the Southeast which reduced the availability of low cost  
4 economy energy. The increase in the Fuel Cost of Power Sold was  
5 primarily due to higher than projected Opportunity Sales (600,000  
6 MWH) due to hot weather in the Southeast.

7  
8 The true-up calculations follow the procedures established by this  
9 Commission as set forth on Commission Schedule A2 "Calculation of  
10 True-Up and Interest Provision" filed monthly with the Commission.

11

12

#### CAPACITY PAYMENT RECOVERY CLAUSE

13

14 **Q. Please describe Page 3 of Appendix III.**

15 **A.** Page 3 of Appendix III provides a summary of the requested capacity  
16 payments for the projected period of January 1999 through December  
17 1999. Total recoverable capacity payments amount to \$390,683,195  
18 (line 12) and include payments of \$206,766,729 to non-cogenerators  
19 (line 1), payments of \$321,489,306 to cogenerators (line 2),  
20 \$3,467,177 of Mission Settlement payments (line 3) and \$4,700,000  
21 relating to the St. John's River Power Park (SJRPP) Energy  
22 Suspension Accrual (line 4a). This amount is offset by revenues from  
23 capacity sales of \$6,483,476 (line 4), \$1,018,495 of return  
24 requirements on Energy Suspension payments (line 4b) and

1 \$56,945,592 of jurisdictional capacity related payments included in  
2 base rates (line 8) less a net overrecovery of \$77,177,787 (line 9).  
3 The net overrecovery of \$77,177,787 includes the final overrecovery  
4 of \$11,771,496 for the April 1997 through March 1998 period plus the  
5 estimated/actual overrecovery of \$65,406,291 for the April 1998  
6 through December 1998 period.

7

8 **Q. Please describe Page 4 of Appendix III.**

9 A. Page 4 of Appendix III calculates the allocation factors for demand and  
10 energy at generation. The demand allocation factors are calculated  
11 by determining the percentage each rate class contributes to the  
12 monthly system peaks. The energy allocators are calculated by  
13 determining the percentage each rate contributes to total kWh sales,  
14 as adjusted for losses, for each rate class.

15

16 **Q. Please describe Page 5 of Appendix III.**

17 A. Page 5 of Appendix III presents the calculation of the proposed  
18 Capacity Payment Recovery Clause (CCR) factors by rate class.

19

20 **Q. Please explain the calculation of the CCR Estimated/Actual True-  
21 up amount you are requesting this Commission to approve.**

22 A. The Estimated/Actual True-up for the period April 1998 through  
23 December 1998 is an overrecovery, including interest, of \$65,406,291  
24 (Appendix III, page 7, lines 15 plus 16). Appendix III, page 7 shows

1 the calculation supporting the CCR Estimated/Actual True-up amount.

2

3 **Q. Is this true-up calculation consistent with the true-up**  
4 **methodology used for the other cost recovery clauses?**

5 A. Yes it is. The calculation of the true-up amount follows the procedures  
6 established by this Commission as set forth on Commission Schedule  
7 A2 "Calculation of True-Up and Interest Provision" for the Fuel Cost  
8 Recovery clause.

9

10 **Q. Please explain the calculation of the Interest Provision.**

11 A. Appendix III, page 8 shows the calculation of the interest provision and  
12 follows the same methodology used in calculating the interest  
13 provision for the other cost recovery clauses, as previously approved  
14 by this Commission.

15

16 The interest provision is the result of multiplying the monthly average  
17 true-up amount (line 4) times the monthly average interest rate (line 9).

18 The average interest rate for the months reflecting actual data is  
19 developed using the 30 day commercial paper rate as published in the  
20 Wall Street Journal on the first business day of the current and  
21 subsequent months. The average interest rate for the projected  
22 months is the actual rate as of the first business day in August 1998.

23

24 **Q. Have you provided a schedule showing the variances between**

1 **the Estimated/Actuals and the Original Projections?**

2 A. Yes. Appendix III, page 9, shows the Estimated/Actual capacity  
3 charges and applicable revenues compared to the original projections  
4 for the April 1998 through September 1998 period.

5

6 **Q. What is the variance related to capacity charges?**

7 A. As shown in Appendix III, page 9, line 7, the variance related to  
8 capacity charges is a \$77 million decrease. The primary reason for  
9 the variance is a \$66 million increase in revenues from capacity sales.  
10 This increase in expected revenues from capacity sales is primarily  
11 due to Opportunity Sales being approximately 600,000 MWH greater  
12 than projected for the period as a result of extreme weather  
13 conditions. The variance is also due to a \$5 million decrease in  
14 payments to non-cogenerators and a \$24 million decrease in  
15 payments to cogenerators. The decrease in payments to non-  
16 cogenerators represents Southern Company credit adjustments in the  
17 July 1998 and August 1998 invoices. The decrease in payments to  
18 cogenerators is primarily due to Cedar Bay's capacity payment being  
19 less than projected and Bio-Energy not qualifying for a capacity  
20 payment during this period. These amounts were offset by a  
21 midcourse correction in April 1998 of \$18 million.

22

23 **Q. What is the variance in Capacity Cost Recovery revenues?**

24 A. As shown on line 12, Capacity Cost Recovery revenues, net of



1 revenue taxes, are \$9 million higher than originally projected.

2

3 **Q. What effective date is the Company requesting for the new**  
4 **factors?**

5 A. The Company is requesting that the new FCR and CCR factors  
6 become effective with customer bills for January 1999 through  
7 December 1999. This will provide for 12 months of billing on the FCR  
8 and CCR factors for all our customers.

9

10 **Q. What will be the charge for a Residential customer using 1,000**  
11 **kWh effective January 1999?**

12 A. The total residential bill, excluding taxes and franchise fees, for 1,000  
13 kWh will be \$75.56. The base bill for 1,000 residential kWh is \$47.46,  
14 the fuel cost recovery charge from Schedule E1-E, Page 9 of  
15 Appendix II for a residential customer is \$19.80, the Conservation  
16 charge is \$2.15, the Capacity Cost Recovery charge is \$5.14, the  
17 Environmental Cost Recovery charge is \$.24 and the Gross Receipts  
18 Tax is \$.77. A Residential Bill Comparison (1,000 kWh) is presented  
19 in Schedule E10, Page 65 of Appendix II.

20

21 **Q. Does this conclude your testimony.**

22 A. Yes, it does.

1           **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2                           **FLORIDA POWER & LIGHT COMPANY**

3                                   **TESTIMONY OF KOREL M. DUBIN**

4   **DOCKET NO. 980001-EI**

5   **October 14, 1998**

6

7   **Q.    Please state your name and address.**

8    A.    My name is Korel M. Dubin and my business address is 9250 West  
9           Flagler Street, Miami, Florida 33174.

10

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

12 A.    I am employed by Florida Power & Light Company (FPL) as Principal  
13       Rate Analyst in the Rates and Tariffs Department.

14

15 **Q.    Have you previously testified in this docket?**

16 A.    Yes, I have.

17

18 **Q.    What is the purpose of your testimony?**

19 A.    The purpose of my testimony is to address issues set forth in  
20       Attachment A of Commission Order No. PSC-98-1270-PCO-EI  
21       issued September 25, 1998 regarding transmission revenues  
22       associated with economy transactions.

23

24

- 1 **Q. Does the FERC require that revenue from non-firm transmission**  
2 **services, subject to FERC jurisdiction be reflected as a revenue**  
3 **credit in the derivation of firm transmission service rates subject**  
4 **to FERC jurisdiction?**
- 5 A. Yes. In Order No. 888, issued in Docket Nos. RM95-8-000 and  
6 RM94 -7-001 the FERC stated "The Final Rule's general requirement  
7 for non-discriminatory transmission access and pricing by public  
8 utilities, and its specific requirement that public utilities unbundle their  
9 transmission rates and take transmission service under their own  
10 tariffs, apply to all public utilities' wholesale sales and purchases of  
11 electric energy, including coordination transactions (mimeo page  
12 266)." Additionally, in 1993 for New England Power Co. (FERC  
13 61,153), FERC accepted transmission rates that reflected a credit to  
14 the transmission cost of service for nonfirm transmission services  
15 provided to others. In that same case, FERC also required the  
16 company to credit the transmission cost of service to reflect the  
17 transmission component of off-system power sales revenues.  
18
- 19 **Q. How should the transmission revenues associated with**  
20 **economy transactions over the Energy Broker Network be**  
21 **separated between retail and wholesale jurisdictions?**
- 22 A. For FPL, transmission revenue associated with economy transactions  
23 should continue to be separated based on energy. Although it may be  
24 appropriate to use a demand separator, FPL's current energy

1 separation factor and demand separation factor produce virtually the  
2 same results. Also, currently all fuel and fuel related costs and  
3 revenues that are included in the Fuel Cost Recovery factors are  
4 separated based on energy. Introducing another step in the  
5 calculation of our fuel factors that would not materially affect the  
6 results does not seem beneficial at this time.

7

8 FPL's separation factor for energy is calculated by taking actual  
9 annual Total Retail Energy at Generation and dividing it by Total  
10 Company Energy at Generation. FPL's current separation factor for  
11 energy is 98.56%.

12

13 FPL's current separation factor for demand is 98.05%. FPL's  
14 separation factor for demand is calculated by taking actual annual  
15 Retail Average 12 CP at Generation and dividing it by Total Company  
16 Average 12 CP at Generation.

17

18 **Q. Does this conclude your testimony.**

19 **A. Yes, it does.**

BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION  
DOCKET NO. 980001-EI  
CONTINUING SURVEILLANCE AND REVIEW OF  
FUEL COST RECOVERY CLAUSES OF ELECTRIC UTILITIES

Direct Testimony of  
George M. Bachman  
On Behalf of  
Florida Public Utilities Company

- 1 Q. Please state your name and business address.
- 2 A. George M. Bachman, 401 South Dixie Highway, West Palm Beach, FL  
3 33401.
- 4 Q. By whom are you employed?
- 5 A. I am employed by Florida Public Utilities Company.
- 6 Q. Have you previously testified in this Docket?
- 7 A. Yes.
- 8 Q. What is the purpose of your testimony at this time?
- 9 A. I will briefly describe the basis for the computations that were  
10 made in the preparation of the various Schedules that we have  
11 submitted in support of the January 1999 - December 1999 fuel cost  
12 recovery adjustments for our two electric divisions. In addition,  
13 I will advise the Commission of the projected differences between  
14 the revenues collected under the levelized fuel adjustment and the  
15 purchased power costs allowed in developing the levelized fuel  
16 adjustment for the period April 1998 - December 1998 and to  
17 establish a "true-up" amount to be collected or refunded during  
18 January 1999 - December 1999.
- 19 Q. Were the schedules filed by your Company completed under your  
20 direction?
- 21 A. Yes.
- 22 Q. Which of the Staff's set of schedules has your company completed  
23 and filed?

- 1 A. We have filed Schedules E1, E1A, E1-B, E1B-1, E2, E7, and E10 for  
2 Marianna and E1, E1A, E1-B, E1-B1, E2, E7, E8, and E10 for  
3 Fernandina Beach. They are included in Composite Prehearing  
4 Identification Number QMB-2.
- 5 These schedules support the calculation of the levelized fuel  
6 adjustment factor for January 1999 - December 1999. Schedule E1-B  
7 shows the Calculation of Purchased Power Costs and Calculation of  
8 True-Up and Interest Provision for the period April 1998 - December  
9 1998 based on 5 Months Actual and 4 Months Estimated data.
- 10 Q. In derivation of the projected cost factor for the January 1999 -  
11 December 1999, period, did you follow the same procedures that were  
12 used in the prior period filings?
- 13 A. Yes, with the exception of time period. The period covered has  
14 been changed to twelve months and a calendar year.
- 15 Q. Why has the GSLD rate class for Fernandina Beach been excluded from  
16 these computations?
- 17 A. Demand and other purchased power costs are assigned to the GSLD  
18 rate class directly based on their actual CP KW and their actual  
19 KWH consumption. That procedure for the GSLD class has been in use  
20 for several years and has not been changed herein. Costs to be  
21 recovered from all other classes is determined after deducting from  
22 total purchased power costs those costs directly assigned to GSLD.
- 23 Q. How will the demand cost recovery factors for the other rate  
24 classes be used?
- 25 A. The demand cost recovery factors for each of the RS, GS, GSD and  
26 OL-SL rate classes will become one element of the total cost  
27 recovery factor for those classes. All other costs of purchased  
28 power will be recovered by the use of the levelized factor that is  
29 the same for all those rate classes. Thus the total factor for each

1 class will be the sum of the respective demand cost factor and the  
2 levelized factor for all other costs.

3 Q. Please address the calculation of the total true-up amount to be  
4 collected or refunded during the January 1999 - December 1999.

5 A. We have determined that at the end of December 1998 based on five  
6 months actual and four months estimated, we will have over-  
7 recovered \$60,107 in purchased power costs in our Marianna  
8 division. Based on estimated sales for the period January 1999 -  
9 December 1999, it will be necessary to subtract .02177¢ per KWH to  
10 refund this over-recovery.

11 In Fernandina Beach we will have over-recovered \$126,712 in  
12 purchased power costs. This amount will be refunded at .04708¢ per  
13 KWH during the January 1999 - December 1999 period (excludes GSLD  
14 customers). Page 3 and 13 of Composite Prehearing Identification  
15 Number GMB-2 provides a detail of the calculation of the true-up  
16 amounts.

17 Q. Looking back upon the October 1997 - March 1998 period, what were  
18 the actual End of Period - True-Up amounts for Marianna and  
19 Fernandina Beach, and their significance, if any?

20 A. The Marianna Division experienced an over-recovery of \$256,324 and  
21 Fernandina Beach Division over-recovered \$390,750. The amounts  
22 both represent fluctuations of less than 10% from the total fuel  
23 charges for the period and are not considered significant variances  
24 from projections.

25 Q. What are the final remaining true-up amounts for the period October  
26 1997 - March 1998 for both divisions?

27 A. In Marianna the final remaining true-up amount was an over-recovery  
28 of \$125,045. The final remaining true-up amount for Fernandina  
29 Beach was an over-recovery of \$121,303.

1 Q. What are the estimated true-up amounts for the period of April 1998  
2 - December 1998?

3 A. In Marianna, there is an estimated over-recovery of 64,938.  
4 Fernandina Beach has an estimated under-recovery of \$5,409.

5 Q. What will the total fuel adjustment factor, excluding demand cost  
6 recovery, be for both divisions for the period  
7 January 1999 - December 1999.

8 A. In Marianna the total fuel adjustment factor as shown on Line 33,  
9 Schedule E1, is 2.293¢ per KWH. In Fernandina Beach the total fuel  
10 adjustment factor for "other classes", as shown on Line 43,  
11 Schedule E1, amounts to 2.042¢ per KWH.

12 Q. Please advise what a residential customer using 1,000 KWH will pay  
13 for the period January 1999 - December 1999 including base rates,  
14 conservation cost recovery factors, and fuel adjustment factor and  
15 after application of a line loss multiplier.

16 A. In Marianna a residential customer using 1,000 KWH will pay \$63.16,  
17 an decrease of .65¢ from the previous period. In Fernandina Beach  
18 a customer will pay \$57.65, an increase of \$1.69 from the previous  
19 period.

20 Q. Does this conclude your testimony?

21 A. Yes.

22  
23  
24 Disk Fuel 1/97

25 Nov98-test.gb  
26  
27



## 1 GULF POWER COMPANY

2 Before the Florida Public Service Commission

3 Prepared Direct Testimony and Exhibit of

4 Michael F. Oaks

5 Docket No. 980001-EI

6 Date of Filing: October 12, 1998

7 Q. Please state your name and business address.

8 A. My name is Michael F. Oaks and my business address is One Energy  
9 Place, Pensacola, Florida 32520-0328.

10 Q. What is your occupation?

11 A. I am the Compliance and Fuel Supply Supervisor at Gulf Power  
12 Company.

13 Q. Mr. Oaks, will you please describe your education and experience?

14 A. I graduated from Belhaven College in Jackson, Mississippi, in 1977 with a  
15 Bachelor of Science Degree in Chemistry. I joined Gulf Power Company  
16 in 1977 as a Chemist. Since then, I have held various positions with the  
17 Company, including Water Chemistry Specialist, Water Quality Specialist,  
18 Environmental Affairs Specialist, Environmental Audit Administrator, and  
19 Compliance Administrator. I was promoted to my present position in May  
20 1996.

21 Q. What are your duties as Fuel Supply Supervisor?

22 A. I supervise and administer the Company's fuel procurement,  
23 transportation, budgeting, contract administration, and quality control to  
24 ensure the generating plants are provided an adequate low cost fuel  
25

1 supply with minimal operational problems.

2

3 Q. Are you the same Michael F. Oaks who has previously submitted  
4 testimony in this proceeding.

5 A. Yes.

6

7 Q. Mr. Oaks, what is the purpose of your testimony in this docket?

8 A. The purpose of my testimony is to support Gulf Power Company's  
9 projection of fuel expenses for the period January 1, 1999 to  
10 December 31, 1999 and to be available to answer any questions that may  
11 occur concerning the Company's fuel procurement procedures.

12

13 Q. Have you prepared an exhibit that contains information to which you will  
14 refer in your testimony?

15 A. Yes. I have prepared an exhibit consisting of one schedule. Schedule 1  
16 of my exhibit is a tabulation of projected and actual fuel cost for the past  
17 ten years. The purpose of this schedule is to illustrate the accuracy of our  
18 short-term projections of fuel expenses.

19

20 Counsel: We ask that Mr. Oaks' exhibit consisting of one schedule be  
21 marked as Exhibit No. 18 (MFO-1).

22

23 Q. Has Gulf Power Company made any changes to its methods in this period  
24 for projecting fuel cost?

25 A. No.

1 Q. Does the 1999 projection of fuel expenses reflect any major changes in  
2 Gulf's fuel purchasing program during this period?

3 A. No. However, a change in fuel supply for Plant Daniel is planned in 1999.  
4 The details of such a change have not been finalized at the time of this  
5 filing.

6

7 Q. How much spot market coal does Gulf Power project it will purchase  
8 during the January 1999 through December 1999 period.

9 A. We are projecting the purchase of approximately 1,715,436 tons on the  
10 spot market. This represents approximately 29% of our projected  
11 purchase requirements.

12

13 Q. Mr. Oaks, does this conclude your testimony?

14 A. Yes.

15

16

17

18

19

20

21

22

23

24

25

## 1 GULF POWER COMPANY

2 Before the Florida Public Service Commission  
3 Prepared Direct Testimony of  
4 Susan D. Cranmer  
5 Docket No. 980001-EI  
6 Fuel and Purchased Power Cost Recovery  
7 Date of Filing: October 12, 1998

8 Q. Please state your name, business address and occupation.

9 A. My name is Susan Cranmer. My business address is One  
10 Energy Place, Pensacola, Florida 32520-0780. I hold the  
11 position of Assistant Secretary and Assistant Treasurer  
12 for Gulf Power Company.

13 Q. Please briefly describe your educational background and  
14 business experience.

15 A. I graduated from Wake Forest University in  
16 Winston-Salem, North Carolina in 1981 with a Bachelor of  
17 Science Degree in Business and from the University of  
18 West Florida in 1982 with a Bachelor of Arts Degree in  
19 Accounting. I am also a Certified Public Accountant  
20 licensed in the State of Florida. I joined Gulf Power  
21 Company in 1983 as a Financial Analyst. Prior to  
22 assuming my current position, I have held various  
23 positions with Gulf including Computer Modeling Analyst,  
24 Senior Financial Analyst, and Supervisor of Rate  
25 Services.

1           My responsibilities include supervision of: tariff  
2           administration, cost of service activities, calculation  
3           of cost recovery factors, the regulatory filing function  
4           of the Rates and Regulatory Matters Department, and  
5           various treasury activities.

6

7   Q.   Have you previously filed testimony before this  
8       Commission in Docket No. 980001-EI?

9   A.   Yes, I have.

10

11   Q.   What is the purpose of your testimony?

12   A.   The purpose of this testimony is to discuss the  
13       calculation of Gulf Power's fuel cost recovery factors  
14       for the period January 1999 through December 1999. I  
15       will also discuss the calculation of the purchased power  
16       capacity cost recovery factors for the period January  
17       1999 through December 1999.

18

19   Q.   Are you familiar with the Fuel and Purchased Power Cost  
20       Recovery Clause Calculation for the period of January  
21       1999 through December 1999?

22   A.   Yes, these documents were prepared under my supervision.

23

24

25

1 Q. Have you verified that to the best of your knowledge and  
2 belief, the information contained in these documents is  
3 correct?

4 A. Yes, I have.

5 Counsel: We ask that Ms. Cranmer's Exhibit  
6 consisting of fourteen schedules,  
7 be marked as Exhibit No. \_\_\_\_\_(SDC-1).  
8

9 Q. Ms. Cranmer, what has Gulf calculated as the fuel cost  
10 recovery true-up to be applied in the period January  
11 1999 through December 1999?

12 A. The fuel cost recovery true-up for this period is an  
13 increase of .0454¢/kwh. As shown on Schedule E-1A, this  
14 includes an estimated under-recovery for the April  
15 through September 1998 period of \$3,743,611, less the  
16 estimated over-recovery of \$1,097,022 for April through  
17 September 1998 already being refunded in the current  
18 October through December 1998 period. It also includes  
19 an estimated true-up over-recovery of \$456,058 for the  
20 current period of October through December 1998. The  
21 resulting under-recovery is \$4,384,575.  
22

23 Q. What has been included in this filing to reflect the  
24 GPIF reward/penalty for the period of October 1997  
25 through March 1998?

1 A. This is shown on Line 32b of Schedule E-1 as an increase  
2 of .0006¢/kwh, thereby rewarding Gulf by \$62,632.

3

4 Q. Ms. Cranmer, what is the levelized projected fuel factor  
5 for the period January 1999 through December 1999?

6 A. Gulf has proposed a levelized fuel factor of 1.662¢/kwh.  
7 It includes projected fuel and purchased power energy  
8 expenses for January 1999 through December 1999 and  
9 projected kwh sales for the same period, as well as the  
10 true-up and GPIF amount. The proposed levelized fuel  
11 factor also includes the special recovery amount  
12 associated with the Air Products special contract. The  
13 calculation of the special recovery amount is presented  
14 on Schedule E-12 of my exhibit. The levelized fuel  
15 factor has not been adjusted for line losses.

16

17 Q. Ms. Cranmer, how were the line loss multipliers used on  
18 Schedule E-1E calculated?

19 A. They were calculated in accordance with procedures  
20 approved in prior filings and were based on Gulf's  
21 latest mwh Load Flow Allocators.

22

23 Q. Ms. Cranmer, what fuel factor does Gulf propose for its  
24 largest group of customers (Group A), those on Rate  
25 Schedules RS, GS, GSD, OSIII, and OSIV?

1 A. Gulf proposes a standard fuel factor, adjusted for line  
2 losses, of 1.682¢/kwh for Group A. Fuel factors for  
3 Groups A, B, C, and D are shown on Schedule E-1E. These  
4 factors have also been adjusted for line losses.

5

6 Q. Ms. Cranmer, how were the time-of-use fuel factors  
7 calculated?

8 A. These were calculated based on projected loads and  
9 system lambdas for the period January 1999 through  
10 December 1999. These factors included the GPIF,  
11 true-up, and special contract recovery cost amounts and  
12 were adjusted for line losses. These time-of-use fuel  
13 factors are also shown on Schedule E-1E.

14

15 Q. How does the proposed fuel factor for Rate Schedule RS  
16 compare with the factor applicable to December 1998 and  
17 how would the change affect the cost of 1000 kwh on  
18 Gulf's residential rate RS?

19 A. The current fuel factor for Rate Schedule RS applicable  
20 to December 1998 is 1.646¢/kwh compared with the  
21 proposed factor of 1.682¢/kwh. For a residential  
22 customer who uses 1000 kwh in January 1999, the fuel  
23 portion of the bill would increase from \$16.46 to  
24 \$16.82.

25



1 Q. Ms. Cranmer, has Gulf updated its estimates of the  
2 as-available avoided energy costs to be shown on COG1 as  
3 required by Order No. 13247 issued May 1, 1984, in  
4 Docket No. 830377-EI and Order No. 19548 issued June 21,  
5 1988, in Docket No. 880001-EI?

6 A. Yes. A tabulation of these costs is set forth in  
7 Schedule E-11 of my Exhibit SDC-1. These costs  
8 represent the estimated averages for the period from  
9 January 1999 through December 2000.

10

11 Q. Ms. Cranmer, you stated earlier that you are responsible  
12 for the calculation of the purchased power capacity cost  
13 (PPCC) recovery factors. Which schedules of your  
14 exhibit relate to the calculation of these factors?

15 A. Schedule CCE-1, including CCE-1a and CCE-1b, and  
16 Schedule CCE-2 of my exhibit relate to the calculation  
17 of the PPCC recovery factors for the period January 1999  
18 through December 1999.

19

20 Q. Please describe Schedule CCE-1 of your exhibit.

21 A. Schedule CCE-1 shows the calculation of the amount of  
22 capacity payments to be recovered through the PPCC  
23 Recovery Clause. Mr. Howell has provided me with Gulf's  
24 projected purchased power capacity transactions under  
25 the Southern Company Intercompany Interchange Contract

1 (IIC), Gulf's contract with Solutia, and certain market  
2 capacity transactions. Gulf's total projected capacity  
3 payments for the period January 1999 through December  
4 1999 are purchases of \$7,007,984. The jurisdictional  
5 amount is \$6,761,494. For the period, Gulf's requested  
6 recovery before true-up is the difference between the  
7 jurisdictional projected purchased power capacity costs  
8 and the approved adjustment for former capacity  
9 transactions embedded in current base rates. This  
10 adjustment amount was fixed in Order No. PSC-93-0047-  
11 FOF-EI, dated January 12, 1993, as an annual embedded  
12 credit of \$1,678,580, or \$1,652,000 net of revenue  
13 taxes. Thus, the projected recovery amount that would  
14 be collected through the PPCC recovery factors in the  
15 period January 1999 through December 1999 is \$8,413,494.  
16 This amount is added to the total true-up amount to  
17 determine the total purchased power capacity  
18 transactions that would be recovered in the period.

19

20 Q. What has Gulf calculated as the purchased power capacity  
21 factor true-up to be applied in the period January 1999  
22 through December 1999?

23 A. The true-up for this period is an increase of \$1,315,167  
24 as shown on Schedule CCE-1a. This includes an estimated  
25 under-recovery of \$2,467,419 for October 1997 through

1 September 1998, less the estimated under-recovery of  
2 \$2,389,778 for October 1997 through September 1998  
3 already being recovered in the current October through  
4 December 1998 period. It also includes an estimated  
5 under-recovery of \$1,237,526 for the current period of  
6 October 1998 through December 1998. The resulting  
7 under-recovery is \$1,315,167.

8

9 Q. What methodology was used to allocate the capacity  
10 payments to rate class?

11 A. As required by Commission Order No. 25773 in Docket  
12 No. 910794-EQ, the revenue requirements have been  
13 allocated using the cost of service methodology used in  
14 Gulf's last full requirements rate case and approved by  
15 the Commission in Order No. 23573 issued October 3,  
16 1990, in Docket No. 891345-EI. Although the capacity  
17 payments in that cost of service study were allocated to  
18 rate class using the demand allocator based on the  
19 twelve monthly coincident peaks projected for the test  
20 year, for purposes of the PPCC Recovery Clause, Gulf has  
21 allocated the net purchased power capacity costs to rate  
22 class with 12/13th on demand and 1/13th on energy. This  
23 allocation is consistent with the treatment accorded to  
24 production plant in the cost of service study used in

1 Gulf's last rate case.

2

3 Q. How were the allocation factors calculated for use in  
4 the PPCC Recovery Clause?

5 A. The allocation factors used in the Purchased Power  
6 Capacity Cost Recovery Clause have been calculated using  
7 the 1997 load data filed with the Commission in  
8 accordance with FPSC Rule 25-6.0437. The calculations  
9 of the allocation factors are shown in columns A through  
10 I on Page 1 of Schedule CCE-2.

11

12 Q. Please describe the calculation of the cents/kwh factors  
13 by rate class used to recover purchased power capacity  
14 costs.

15 A. As shown in columns A through D on page 2 of Schedule  
16 CCE-2, the 12/13th of the jurisdictional capacity cost  
17 to be recovered is allocated to rate class based on the  
18 demand allocator, with the remaining 1/13th allocated  
19 based on energy. The total revenue requirement assigned  
20 to each rate class shown in column E is then divided by  
21 that class's projected kwh sales for the twelve-month  
22 period to calculate the PPCC recovery factor. This  
23 factor would be applied to each customer's total kwh to  
24 calculate the amount to be billed each month.

25

1 Q. What is the amount related to purchased power capacity  
2 costs recovered through this factor that will be  
3 included on a residential customer's bill for 1000 kwh?

4 A. The purchased power capacity costs recovered through the  
5 clause for a residential customer who uses 1000 kwh will  
6 be \$1.22.

7

8 Q. When does Gulf propose to collect these new fuel charges  
9 and purchased power capacity charges?

10 A. The fuel and capacity factors will be effective  
11 beginning with the first Bill Group for January 1999 and  
12 continuing through the last Bill Group for December  
13 1999.

14

15 Q. Ms. Cranmer, does this complete your testimony?

16 A. Yes, it does.

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## 1 GULF POWER COMPANY

2 Before the Florida Public Service Commission  
3 Prepared Direct Testimony of  
4 Susan D. Cranmer  
5 Docket No. 980001-EI  
6 Transmission Reconsideration  
7 Date of Filing: October 13, 1998

- 8 Q. Please state your name, business address and occupation.
- 9 A. My name is Susan Cranmer. My business address is One  
10 Energy Place, Pensacola, Florida 32520-0780. I hold the  
11 position of Assistant Secretary and Assistant Treasurer  
12 for Gulf Power Company.
- 13 Q. Please briefly describe your educational background and  
14 business experience.
- 15 A. I graduated from Wake Forest University in  
16 Winston-Salem, North Carolina in 1981 with a Bachelor of  
17 Science Degree in Business and from the University of  
18 West Florida in 1982 with a Bachelor of Arts Degree in  
19 Accounting. I am also a Certified Public Accountant  
20 licensed in the State of Florida. I joined Gulf Power  
21 Company in 1983 as a Financial Analyst. Prior to  
22 assuming my current position, I have held various  
23 positions with Gulf including Computer Modeling Analyst,  
24 Senior Financial Analyst, and Supervisor of Rate  
25 Services.

1           My responsibilities include supervision of: tariff  
2 administration, cost of service activities, calculation  
3 of cost recovery factors, the regulatory filing function  
4 of the Rates and Regulatory Matters Department, and  
5 various treasury activities.

6

7 Q. Have you previously filed testimony before this  
8 Commission in Docket No. 980001-EI?

9 A. Yes, I have.

10

11 Q. What is the purpose of your testimony?

12 A. The purpose of my testimony is to discuss the allocation  
13 of transmission revenues associated with economy sales  
14 transactions between the retail and wholesale  
15 jurisdictions.

16

17 Q. What is the proper jurisdictional separation factor for  
18 allocating transmission revenues between the retail and  
19 wholesale jurisdictions?

20 A. A transmission-related separation factor, based on  
21 coincident peak demand, properly allocates transmission  
22 revenues between the retail and wholesale jurisdictions.  
23 This is consistent with the way in which the  
24 transmission-related plant costs and operation and  
25 maintenance expenses were allocated in Gulf's last rate

1 case.

2

3 Q. Does Gulf propose to use a demand allocator to calculate  
4 the amount of transmission revenues to flow through the  
5 fuel clause?

6 A. No. For administrative simplicity, Gulf proposes to  
7 allocate the transmission revenues flowed through the  
8 fuel clause based on energy sales adjusted for line  
9 losses, as it has been doing for transmission revenues  
10 related to economy sales effective January 1997 pursuant  
11 to Commission Order No. PSC-98-0073-FOF-EI dated  
12 January 13, 1998. For Gulf Power, the energy allocator  
13 and the demand allocator are very similar. For 1997,  
14 the average energy allocator was 96.61503%, and for 1998  
15 through August, the average energy allocator was  
16 96.63689%. In Gulf's last rate case, the transmission-  
17 related investment and expenses were allocated based on  
18 coincident peak demand, with 96.73822% allocated to the  
19 retail jurisdiction. For the period January 1997  
20 through August 1998, \$525,145 of transmission revenues  
21 would have been allocated to the retail jurisdiction  
22 using the 96.73822% demand allocator. The actual  
23 revenue flowed through the fuel clause during that 20-  
24 month period based on energy allocators was \$524,260,



1 for a difference of \$885. Changing the allocation for  
2 these transmission revenues would require fairly  
3 substantial changes to Gulf's over/under recovery  
4 calculation each month, and to the actual "A" schedules  
5 filed each month and the final true-up and projection  
6 schedules, each filed annually. In summary, due to the  
7 immateriality of the difference in the energy and demand  
8 allocators for Gulf Power and the administrative costs  
9 involved with changing the allocator for the  
10 transmission revenues associated with economy sales,  
11 Gulf is proposing to continue using the energy allocator  
12 to flow these transmission revenues through the fuel  
13 clause to its customers.

14

15 Q. Ms. Cranmer, does this complete your testimony?

16 A. Yes, it does.

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1 GULF POWER COMPANY  
2 Before the Florida Public Service Commission  
3 Direct Testimony of  
4 G. D. Fontaine  
5 Docket No. 980001-EI  
6 Date of Filing May 20, 1998

7 Q. Please state your name, address and occupation.

8 A. My name is George D. Fontaine, my business address is  
9 One Energy Place, Pensacola, Florida 32520-0335, and my  
10 position is Performance Test Specialist for Gulf Power  
11 Company.

12  
13 Q. Please describe your educational and business  
14 background.

15 A. I received my Bachelor of Mechanical Engineering Degree  
16 from Auburn University in 1980. Following graduation,  
17 I joined Gulf Power Company as an Associate Engineer at  
18 the Scholz Electric Generating Plant, and as I  
19 previously stated, my current position is Performance  
20 Test Specialist. I am also a registered Professional  
21 Engineer in the State of Florida.

22  
23 Q. Mr. Fontaine, have you previously testified in this  
24 Docket?

25 A. Yes, sir.

1 Q. Mr. Fontaine, what is the purpose of your testimony in  
2 this proceeding?

3 A. The purpose of my testimony is to present GPIF results  
4 for Gulf Power Company for the period of October 1,  
5 1997, through March 31, 1998.

6

7 Q. Mr. Fontaine, have you prepared an exhibit that  
8 contains information to which you will refer in your  
9 testimony?

10 A. Yes, Sir, I have prepared an exhibit consisting of five  
11 schedules.

12

13 Q. Mr. Fontaine, was this exhibit prepared by you or under  
14 your direction and supervision?

15 A. Yes, it was.

16

17 Counsel: We ask that Mr. Fontaine's exhibit be  
18 marked for identification as exhibit 20 (GDF-1).

19

20 Q. Mr. Fontaine, before reviewing the GPIF Results for  
21 Gulf's units, is there any information which has been  
22 supplied to the Commission pertaining to this GPIF  
23 period which requires amendment?

24 A. Yes, some corrections need to be made to the actual  
25 unit performance data which was submitted monthly to

1 the Commission during this period. These corrections  
2 are based on discoveries made during our final review  
3 to determine the accuracy of this information prior to  
4 this proceeding. The Actual Unit Performance Data  
5 tables on pages 14 to 19 of Schedule 5 incorporate  
6 these changes. The data contained on these tables is  
7 the data upon which the GPIF calculation was made.  
8

9 Q. Mr. Fontaine, would you now review the Company's  
10 equivalent availability results for the period?

11 A. Actual equivalent availability and adjusted actual  
12 equivalent availability figures for each of the  
13 Company's GPIF units are shown on page 13 of Schedule  
14 5. Pages 3 through 8 of Schedule 2 contain the  
15 calculations for the adjusted actual equivalent  
16 availabilities.

17 A calculation of GPIF availability points based on  
18 these availabilities and the targets established by  
19 Commission Order PSC-97-1045-FOF-EI is on page 9 of  
20 Schedule 2. The results are: Crist 6, -1.36 points;  
21 Crist 7, -10.00 points; Smith 1, -5.83 points; Smith 2,  
22 -10.00 points; Daniel 1, +10.00 points, and Daniel 2,  
23 -10.00 points.  
24  
25

1 Q. Mr. Fontaine, what were the heat rate results for the  
2 period?

3 A. The detailed calculation of the actual average net  
4 operating heat rates for the Company's GPIF units is on  
5 pages 2 through 7 of Schedule 3. These heat rate  
6 figures have not at this point been adjusted in  
7 accordance with GPIF procedures for load and other  
8 factors to the bases of their targets.

9 As was done for the prior GPIF periods, and as  
10 indicated on pages 8 through 13 of Schedule 3, the  
11 target setting equations were used to adjust actual  
12 results to the target bases. These equations,  
13 submitted in June 1997, are shown on page 15 of  
14 Schedule 3.

15 As calculated on page 16 of Schedule 3, the  
16 adjusted actual average net operating heat rates  
17 correspond to GPIF unit heat rate points of: -2.24 for  
18 Crist 6, +2.66 for Crist 7, 0.00 for Smith 1, +7.49 for  
19 Smith 2, -0.63 for Daniel 1, and 0.00 for Daniel 2.

20

21 Q. Mr. Fontaine, what number of Company points were  
22 achieved during the period, and what reward or penalty  
23 is indicated by these points according to the GPIF  
24 procedure?

25 A. Using the unit equivalent availability and heat rate

1 points previously mentioned, along with the adjusted  
2 weighting factors, the Company points would be +0.73 as  
3 indicated on page 2 of Schedule 4. This calculates to  
4 a reward in the amount of \$62,632.

5

6 Q. Mr. Fontaine, would you please summarize your  
7 testimony?

8 A. Yes, Sir. In view of the adjusted actual equivalent  
9 availabilities, as shown on page 9 of Schedule 2, and  
10 the adjusted actual average net operating heat rates  
11 achieved, as shown on page 16 of Schedule 3, evidencing  
12 the Company's performance for the period, Gulf  
13 calculates a reward in the amount of \$62,632 as  
14 provided for by the GPIF plan.

15 Q. Mr. Fontaine, does this conclude your testimony?

16 A. Yes, Sir.

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1 GULF POWER COMPANY  
2 Before the Florida Public Service Commission  
3 Direct Testimony of  
4 G. D. Fontaine  
5 Docket No. 980001-EI  
6 Date of Filing June 22, 1998

7 Q. Please state your name, address and occupation.

8 A. My name is George D. Fontaine, my business address is  
9 One Energy Place, Pensacola, Florida 32520-0335. and my  
10 position is Performance Test Specialist for Gulf Power  
11 Company.

12 Q. Please describe your educational and business  
13 background.

14 A. I received my Bachelor of Mechanical Engineering Degree  
15 from Auburn University in 1980. Following graduation,  
16 I joined Gulf Power Company as an Associate Engineer at  
17 the Scholz Electric Generating Plant, and as I  
18 previously stated, my current position is Performance  
19 Test Specialist. I am also a registered Professional  
20 Engineer in the State of Florida.

21  
22 Q. Have you previously testified in this Docket?

23 A. Yes. I have presented testimony regarding the  
24 Generating Performance Incentive Factor (GPIF)  
25 periodically for the past several years.

1 Q. What is the purpose of your testimony in this  
2 proceeding?

3 A. The purpose of my testimony today is to present GPIF  
4 targets for Gulf Power Company for the period of October 1,  
5 1998 through December 31, 1998.

6  
7 Q. Have you prepared an exhibit that contains information  
8 to which you will refer in your testimony?

9 A. Yes, I have prepared an exhibit consisting of three  
10 schedules.

11

12 Q. Was this exhibit prepared by you or under your  
13 direction and supervision?

14 A. Yes, it was.

15

16 Counsel: We ask that Mr. Fontaine's exhibit be  
17 marked for identification as exhibit \_\_\_\_ (GDF-2).

18

19 Q. Which units does Gulf propose to include under the GPIF  
20 for the subject period?

21 A. We propose that Crist Units 6 and 7, Smith Units 1 and  
22 2, and Daniel Units 1 and 2 continue to be the  
23 Company's GPIF units.

24

25



1 Q. What are the target heat rates Gulf proposes to use in  
2 the GPIF for these units for the performance period  
3 October 1, 1998 through December 31, 1998?

4 A. I would like to refer you to Page 32 of Schedule 1 of  
5 my exhibit where these targets are listed.  
6

7 Q. How were these proposed target heat rates determined?

8 A. In every case they were determined according to the  
9 GPIF implementation manual procedures for Gulf.  
10 Page 2 of Schedule 1 shows the target average net  
11 operating heat rate equations for the proposed GPIF  
12 units, and pages 4 through 29 of Schedule 1 contain the  
13 weekly historical data used for the statistical  
14 development of these equations.  
15 Pages 30 and 31 of Schedule 1 present the calculations  
16 which provide the unit target heat rates from the  
17 target equations.  
18

19 Q. Were the maximum and minimum attainable heat rates for  
20 each proposed GPIF unit, indicated on page 32 of  
21 Schedule 1, calculated according to the appropriate  
22 GPIF implementation manual procedures?

23 A. Yes.  
24  
25

1 Q. What are the proposed target, maximum and minimum,  
2 equivalent availabilities for Gulf's units?

3 A. The target equivalent availabilities and their ranges  
4 are listed on page 4 of Schedule 2.

5

6 Q. How are these target equivalent availabilities  
7 determined?

8 A. The target equivalent availabilities were determined  
9 according to the standard GPIF implementation manual  
10 procedures for Gulf, and are presented on page 2 of  
11 Schedule 2.

12

13 Q. How were the maximum and minimum attainable equivalent  
14 availabilities determined for each unit?

15 A. The maximum and minimum attainable equivalent  
16 availabilities, which are presented along with their  
17 respective target availabilities on page 4 of Schedule  
18 2, were determined per GPIF manual procedures for Gulf.

19

20 Q. Mr. Fontaine, has Gulf completed the GPIF minimum  
21 filing requirements data package?

22 A. Yes, we have completed the required data. Schedule 3  
23 of my exhibit contains this information.

24

25

1 Q. Mr. Fontaine, would you please summarize your  
2 testimony?

3 A. Yes. Gulf asks that the Commission accept:

- 4 1. Crist Units 6 and 7, Smith Units 1 and 2 and Daniel  
5 Units 1 and 2, for inclusion under the GPIF for the  
6 period of October 1, 1998 through December 31, 1998.  
7
- 8 2. The target, maximum attainable, and minimum  
9 attainable average net operating heat rates, as  
10 proposed by the Company and as shown on page 32 of  
11 Schedule 1 and also page 5 of Schedule 3 of my  
12 exhibit.  
13
- 14 3. The target, maximum attainable, and minimum  
15 attainable equivalent availabilities, as proposed  
16 by the Company and as shown on Page 4 of Schedule  
17 2 and also page 5 of Schedule 3 of my exhibit.  
18
- 19 4. The weekly average net operating heat rate least  
20 squares regression equations, shown on page 2 of  
21 Schedule 1 and also pages 18 through 23 of  
22 Schedule 3 of my exhibit, for use in adjusting the  
23 six-month actual unit heat rates to target  
24 conditions.  
25

1 Q. Mr. Fontaine, does this conclude your testimony?

2 A. Yes, Sir.

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1 GULF POWER COMPANY  
2 Before the Florida Public Service Commission  
3 Direct Testimony of  
4 G. D. Fontaine  
5 Docket No. 980001-EI  
6 Date of Filing October 12, 1998  
7  
8  
9  
10  
11

12 Q. Please state your name, address and occupation.

13 A. My name is George D. Fontaine, my business address is  
14 One Energy Place, Pensacola, Florida 32520-0335, and my  
15 position is Performance Test Specialist for Gulf Power  
16 Company.  
17

18 Q. Please describe your educational and business  
19 background.

20 A. I received my Bachelor of Mechanical Engineering Degree  
21 from Auburn University in 1980. Following graduation,  
22 I joined Gulf Power Company as an Associate Engineer at  
23 the Scholz Electric Generating Plant, and as I  
24 previously stated, my current position is Performance  
25 Test Specialist. I am also a registered Professional  
Engineer in the State of Florida.

Q. Have you previously testified in this Docket?

A. Yes. I have presented testimony regarding the  
Generating Performance Incentive Factor (GPIF)  
periodically for the past several years.

1 Q. What is the purpose of your testimony in this  
2 proceeding?

3 A. The purpose of my testimony today is to present GPIF  
4 targets for Gulf Power Company for the period of January 1,  
5 1999 through December 31, 1999.

6  
7 Q. Have you prepared an exhibit that contains information  
8 to which you will refer in your testimony?

9 A. Yes, I have prepared an exhibit consisting of three  
10 schedules.

11

12 Q. Was this exhibit prepared by you or under your  
13 direction and supervision?

14 A. Yes, it was.

15

16 Counsel: We ask that Mr. Fontaine's exhibit be  
17 marked for identification as exhibit 22 (GDF-3).

18

19 Q. Which units does Gulf propose to include under the GPIF  
20 for the subject period?

21 A. We propose that Crist Units 6 and 7, Smith Units 1 and  
22 2, and Daniel Units 1 and 2 continue to be the  
23 Company's GPIF units.

24

25

1 Q. What are the target heat rates Gulf proposes to use in  
2 the GPIF for these units for the performance period  
3 January 1, 1999 through December 31, 1999?

4 A. I would like to refer you to Page 32 of Schedule 1 of  
5 my exhibit where these targets are listed. A change in  
6 fuel at Plant Daniel is planned in 1999. The impact of  
7 this change on the Plant Daniel heat rate targets for  
8 this period cannot be projected at the time of this  
9 filing since the details of the change have not been  
10 determined.

11

12 Q. How were these proposed target heat rates determined?

13 A. In every case they were determined according to the  
14 GPIF implementation manual procedures for Gulf.  
15 Page 2 of Schedule 1 shows the target average net  
16 operating heat rate equations for the proposed GPIF  
17 units, and pages 4 through 29 of Schedule 1 contain the  
18 weekly historical data used for the statistical  
19 development of these equations.

20 Pages 30 and 31 of Schedule 1 present the calculations  
21 which provide the unit target heat rates from the  
22 target equations.

23

24

25

1 Q. Were the maximum and minimum attainable heat rates for  
2 each proposed GPIF unit, indicated on page 32 of  
3 Schedule 1, calculated according to the appropriate  
4 GPIF implementation manual procedures?

5 A. Yes.

6

7 Q. What are the proposed target, maximum and minimum,  
8 equivalent availabilities for Gulf's units?

9 A. The target equivalent availabilities and their ranges  
10 are listed on page 4 of Schedule 2.

11

12 Q. How are these target equivalent availabilities  
13 determined?

14 A. The target equivalent availabilities were determined  
15 according to the standard GPIF implementation manual  
16 procedures for Gulf, and are presented on page 2 of  
17 Schedule 2.

18

19 Q. How were the maximum and minimum attainable equivalent  
20 availabilities determined for each unit?

21 A. The maximum and minimum attainable equivalent  
22 availabilities, which are presented along with their  
23 respective target availabilities on page 4 of Schedule  
24 2, were determined per GPIF manual procedures for Gulf.

25



1 Q. Mr. Fontaine, has Gulf completed the GPIF minimum  
2 filing requirements data package?

3 A. Yes, we have completed the required data. Schedule 3  
4 of my exhibit contains this information.

5

6 Q. Mr. Fontaine, would you please summarize your  
7 testimony?

8 A. Yes. Gulf asks that the Commission accept:

9 1. Crist Units 6 and 7, Smith Units 1 and 2 and Daniel  
10 Units 1 and 2, for inclusion under the GPIF for the  
11 period of January 1, 1999 through December 31, 1999.

12

13 2. The target, maximum attainable, and minimum  
14 attainable average net operating heat rates, as  
15 proposed by the Company and as shown on page 32 of  
16 Schedule 1 and also page 5 of Schedule 3 of my  
17 exhibit.

18

19 3. The target, maximum attainable, and minimum  
20 attainable equivalent availabilities, as proposed  
21 by the Company and as shown on Page 4 of Schedule  
22 2 and also page 5 of Schedule 3 of my exhibit.

23

24 4. The weekly average net operating heat rate least  
25 squares regression equations, shown on page 2 of

1           Schedule 1 and also pages 18 through 29 of  
2           Schedule 3 of my exhibit, for use in adjusting the  
3           six-month actual unit heat rates to target  
4           conditions.

5

6           Q.    Mr. Fontaine, does this conclude your testimony?

7           A.    Yes, Sir.

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1 GULF POWER COMPANY

2 Before the Florida Public Service Commission  
3 Direct Testimony of  
4 M. W. Howell  
5 Docket No. 980001-EI  
6 Date of Filing: October 12, 1998

7 Q. Please state your name, business address and occupation.

8 A. My name is M. W. Howell, and my business address is One  
9 Energy Place, Pensacola, Florida 32520. I am  
10 Transmission and System Control Manager for Gulf Power  
11 Company.

12 Q. Have you previously testified before this Commission?

13 A. Yes. I have testified in various rate case,  
14 cogeneration, territorial dispute, planning hearing,  
15 fuel clause adjustment, and purchased power capacity  
16 cost recovery dockets.

17  
18 Q. Please summarize your educational and professional  
19 background.

20 A. I graduated from the University of Florida in 1965 with  
21 a Bachelor of Science Degree in Electrical Engineering.  
22 I received my Masters Degree in Electrical Engineering  
23 from the University of Florida in 1967, and then joined  
24 Gulf Power Company as a Distribution Engineer. I have  
25 since served as Relay Engineer, Manager of Transmission,

1       Manager of System Planning, Manager of Fuel and System  
2       Planning, and Transmission and System Control Manager.  
3       My experience with the Company has included all areas of  
4       distribution operation, maintenance, and construction;  
5       transmission operation, maintenance, and construction;  
6       relaying and protection of the generation, transmission,  
7       and distribution systems; planning the generation,  
8       transmission, and distribution systems; bulk power  
9       interchange administration; overall management of fuel  
10      planning and procurement; and operation of the system  
11      dispatch center.

12               I am a member of the Engineering Committees and  
13      the Operating Committees of the Southeastern Electric  
14      Reliability Council and the Florida Reliability  
15      Coordinating Council, and have served as chairman of the  
16      Generation Subcommittee of the Edison Electric Institute  
17      System Planning Committee. I have served as chairman or  
18      member of many technical committees and task forces  
19      within the Southern electric system, the Florida  
20      Electric Power Coordinating Group, and the North  
21      American Electric Reliability Council. These have dealt  
22      with a variety of technical issues including bulk power  
23      security, system operations, bulk power contracts,  
24      generation expansion, transmission expansion,  
25      transmission interconnection requirements, central

1 dispatch, transmission system operation, transient  
2 stability, underfrequency operation, generator  
3 underfrequency protection, and system production  
4 costing.

5

6 Q. What is the purpose of your testimony in this  
7 proceeding?

8 A. The purpose of my testimony is to support Gulf Power  
9 Company's projection of purchased power recoverable  
10 costs for energy purchases and sales for the period  
11 January, 1999 - December, 1999. Also, I will support  
12 the Company's projection of purchased power capacity  
13 costs for the January, 1999 - December, 1999 recovery  
14 period.

15

16 Q. Have you prepared an exhibit that contains information  
17 to which you will refer in your testimony?

18 A. Yes. I have one exhibit to which I will refer. This  
19 exhibit was prepared under my supervision and direction.

20

Counsel: We ask that Mr. Howell's Exhibit  
21 MWH-1 be marked for identification  
22 as Exhibit\_\_\_\_(MWH-1).

23

24

25

1 Q. What is Gulf's projected purchased power recoverable  
2 cost for energy purchases for the January, 1999 -  
3 December, 1999 recovery period?

4 A. Gulf's projected recoverable cost for energy purchases,  
5 shown on line 12 of Schedule E-1 of the fuel filing, is  
6 \$10,463,260. These purchases result from Gulf's  
7 participation in the coordinated operation of the  
8 Southern electric system power pool. This amount is  
9 used by Ms. Cranmer as an input in the calculation of  
10 the fuel and purchased power cost adjustment factor.

11

12 Q. What is Gulf's projected purchased power fuel cost for  
13 energy sales for the January, 1999 - December, 1999  
14 recovery period?

15 A. The projected fuel cost for energy sales, shown on line  
16 18 of Schedule E-1, is \$ 43,762,600. These sales also  
17 result from Gulf's participation in the coordinated  
18 operation of the Southern electric system power pool.  
19 This amount is used by Ms. Cranmer as an input in the  
20 calculation of the fuel and purchased power cost  
21 adjustment factor.

22

23 Q. What information is contained in your exhibit?

24 A. My exhibit lists the power contracts that are included  
25 for capacity cost recovery, their associated megawatt

1 amounts, and the resulting capacity dollar amounts.

2

3 Q. Which power contracts produce capacity transactions that  
4 are recovered through Gulf's purchased power capacity  
5 cost recovery factors?

6 A. The two primary power contracts that produce recoverable  
7 capacity transactions through Gulf's purchased power  
8 capacity recovery factors are the Southern electric  
9 system's Intercompany Interchange Contract (IIC) and  
10 Gulf's cogeneration capacity purchase contract with  
11 Solutia, Inc. (formerly Monsanto Company). The  
12 Commission has authorized the Company to include  
13 capacity transactions under the IIC for recovery through  
14 the purchased power capacity cost recovery factors.  
15 Gulf will continue to have IIC capacity transactions  
16 during the January, 1999 - December, 1999 recovery  
17 period. The energy transactions under this contract for  
18 these periods are handled for cost recovery purposes  
19 through the fuel cost recovery factors.

20 The Gulf Power/Solutia cogeneration capacity  
21 contract enables Gulf to purchase 19 megawatts of firm  
22 capacity from June 1, 1996 until June 1, 2005. Gulf has  
23 included these costs for recovery during the January,  
24 1999 - December, 1999 recovery period. The energy  
25 transactions under this contract have also been approved

1 by the Commission for recovery, and these costs are  
2 handled for cost recovery purposes through the fuel cost  
3 recovery factors.

4

5 Q. Are there any other arrangements that produce capacity  
6 transactions that are recovered through Gulf's purchased  
7 power capacity cost recovery factors?

8 A. Yes. Gulf and other Southern electric system operating  
9 companies have purchased market capacity for 1999, and  
10 these purchases will continue through 2001. Gulf will  
11 have monthly costs associated with these market  
12 purchases for the January, 1999 - December, 1999  
13 recovery period.

14

15 Q. Has Southern made any changes to the IIC that were used  
16 in the most recent recovery factor adjustment  
17 proceedings?

18 A. No. However, the Southern electric system's November 1,  
19 1997 IIC informational filing with the FERC has been  
20 updated in 1998 to reflect new capacity resource amounts  
21 for the 1999 budget cycle that are used in the IIC  
22 capacity equalization calculation to determine the  
23 capacity transactions and costs for each operating  
24 company. These updates are reflected in the projection  
25 of capacity transactions among the Southern electric



1 system's operating companies for the January, 1999 -  
2 December, 1999 recovery period.

3

4 Q. What are Gulf's IIC capacity transactions that are  
5 projected for the January, 1999 - December, 1999  
6 recovery period?

7 A. As shown on my exhibit MWH-1, capacity transactions  
8 under the IIC vary during each month of the recovery  
9 period. IIC capacity purchases in the amount of  
10 \$1,696,129 are projected for the period. IIC capacity  
11 sales during the same period are projected to be  
12 \$185,449. Therefore, the Company's net capacity  
13 transactions under the IIC for the period are net  
14 purchases amounting to \$1,510,680.

15

16 Q. What is the cost of Gulf's capacity purchase from  
17 Solutia that is projected for the January, 1999 -  
18 December, 1999 recovery period?

19 A. As shown on my exhibit MWH-1, Gulf is projected to pay  
20 \$746,424, or \$62,202 per month, to Solutia for the firm  
21 capacity purchase made pursuant to the Commission  
22 approved contract.

23

24

25

1 Q. What is the cost of Gulf's market capacity purchases  
2 that is projected for the January, 1999 - December, 1999  
3 recovery period?

4 A. As shown on my exhibit MWH-1, Gulf is projected to pay a  
5 total of \$4,750,880 for the committed market capacity  
6 purchases. Capacity in varying amounts will be  
7 purchased during the months of January through December  
8 of 1999. The individual suppliers and megawatt amounts  
9 are not shown, since this is highly sensitive and  
10 confidential information. Public availability of this  
11 information would seriously undermine our competitive  
12 position and cause our customers increased cost.

13

14 Q. What are Gulf's total projected net capacity  
15 transactions for the January, 1999 - December, 1999  
16 recovery period?

17 A. As shown on my exhibit MWH-1, the net purchases under  
18 the IIC, the Solutia contract, and the committed market  
19 capacity purchases will result in a projected net  
20 capacity cost of \$7,007,984. This figure is used by Ms.  
21 Cranmer as an input into the calculation of the total  
22 capacity transactions to be recovered through the  
23 purchased power capacity cost recovery factors for this  
24 annual recovery period.

25

1 Q. Does this conclude your testimony?

2 A. Yes.

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1       Manager of System Planning, Manager of Fuel and System  
2       Planning, and Transmission and System Control Manager.  
3       My experience with the Company has included all areas of  
4       distribution operation, maintenance, and construction;  
5       transmission operation, maintenance, and construction;  
6       relaying and protection of the generation, transmission,  
7       and distribution systems; planning the generation,  
8       transmission, and distribution systems; bulk power  
9       interchange administration; overall management of fuel  
10      planning and procurement; and operation of the system  
11      dispatch center.

12             I am a member of the Engineering Committees and  
13      the Operating Committees of the Southeastern Electric  
14      Reliability Council and the Florida Reliability  
15      Coordinating Council, and have served as chairman of the  
16      Generation Subcommittee of the Edison Electric Institute  
17      System Planning Committee. I have served as chairman or  
18      member of many technical committees and task forces  
19      within the Southern electric system, the Florida  
20      Electric Power Coordinating Group, and the North  
21      American Electric Reliability Council. These have dealt  
22      with a variety of technical issues including bulk power  
23      security, system operations, bulk power contracts,  
24      generation expansion, transmission expansion,  
25      transmission interconnection requirements, central

1 dispatch, transmission system operation, transient  
2 stability, underfrequency operation, generator  
3 underfrequency protection, and system production  
4 costing.

5

6 Q. What is the purpose of your testimony in this  
7 proceeding?

8 A. The purpose of my testimony is to provide evidentiary  
9 support regarding the requirement of the Federal Energy  
10 Regulatory Commission (FERC) that revenues from non-firm  
11 transmission services shall be reflected as a revenue  
12 credit when calculating the firm transmission service  
13 rates of the Southern electric system (Southern) which  
14 are subject to the FERC's jurisdiction. Gulf Power is  
15 an operating company of Southern.

16

17 Q. Does the FERC require that revenue from non-firm  
18 transmission services subject to FERC jurisdiction be  
19 reflected as a revenue credit in the derivation of firm  
20 transmission service rates subject to FERC jurisdiction?

21 A. Yes. The FERC included this requirement in both Order  
22 No. 888 and Order No. 888-A for transmission providers  
23 using annual system peak load pricing for their  
24 transmission services. On page 304 of the FERC's Order  
25 No. 888, issued April 24, 1996, the FERC clearly states

1 that as part of a mechanism to prevent over-recovery of  
2 costs ". . . revenue from non-firm services should  
3 continue to be reflected as a revenue credit in the  
4 derivation of firm transmission tariff rates."

5 This requirement was reaffirmed by the FERC in  
6 Order No. 888-A that was issued on March 4, 1997. Page  
7 247 of Order No. 888-A states that ". . . the Commission  
8 [FERC] explained that revenue from non-firm transmission  
9 services should continue to be reflected as a revenue  
10 credit in the derivation of firm transmission service  
11 rates. The Commission [FERC] noted that the combination  
12 of allocating costs to firm point-to-point service and  
13 the use of a revenue credit for non-firm transmission  
14 service will satisfy the requirements of a conforming  
15 rate proposal enunciated in our Transmission Pricing  
16 Policy Statement."

- 17
- 18 Q. Has the Southern filed its Open Access Transmission  
19 Service Tariff to conform to the above mentioned  
20 requirements of FERC Order No. 888 and FERC Order No.  
21 888-A?
- 22 A. Yes. All of Southern's transmission service tariff  
23 filings, including the currently effective transmission  
24 service tariff, have complied with the FERC-ordered  
25 requirements to include non-firm revenue credits in the

1 firm transmission service rate derivation. Southern's  
2 currently effective Open Access Transmission Tariff is a  
3 formulary rate tariff that provides for annual updates  
4 of the investment, expense, load, and cost of capital  
5 components of the firm transmission rate calculation.  
6 The scheduled updates provide the occasion for  
7 incorporating the most current non-firm transmission  
8 revenue credits in the determination of firm  
9 transmission rates. At the time of the annual updates  
10 to the input components of the formulary rate, the non-  
11 firm transmission service revenue credits accumulated  
12 since the last update are reflected as a direct  
13 reduction to the transmission O&M expense component of  
14 the firm transmission service. This mechanism provides  
15 a safeguard against over-recovery of costs that could  
16 otherwise occur due to FERC's requirement in Order 888  
17 that transmission charges be "unbundled" from economy  
18 energy sales. In fact, Southern's annual update filing  
19 on May 1, 1998 incorporated the required credit for non-  
20 firm transmission revenues received during calendar year  
21 1997 with the result being lower firm transmission rates  
22 for use of Southern's (and therefore Gulf's)  
23 transmission system from June 1, 1998 until the  
24 effective date of the next update.

25



1 Q. How would you compare this FERC process of including  
2 credit for non-firm transmission revenues in the annual  
3 updates to Southern's firm transmission rate with the  
4 requirement by the Florida Public Service Commission  
5 (FPSC) that transmission revenues associated with  
6 economy energy sales be credited to retail customers  
7 through the fuel adjustment clause?

8 A. In principle, the two mechanisms are addressing the same  
9 concern. In both cases, the respective commissions are  
10 attempting to fashion a mechanism to protect against  
11 possible over-recovery of costs that might otherwise  
12 result in the short-term due to previously unanticipated  
13 revenues associated with the newly unbundled  
14 transmission charges. FERC's approach is to apply these  
15 revenues as a credit against transmission costs as part  
16 of the annual setting of transmission rates subject to  
17 its jurisdiction. The FPSC's approach is to take these  
18 same revenues and flow them directly to retail customers  
19 through the fuel clause in order to avoid ". . . a  
20 windfall for the seller." (Order No. PSC-98-0073-FOF-EI  
21 at page 7) To the extent that Gulf or any other utility  
22 is required to credit the same revenues in both  
23 jurisdictions, ". . . it will obviously be forced to  
24 credit more revenues than it receives." (Florida Power  
25 Corporation Motion for Reconsideration at page 5)

1 Q. Is the fact that both the FERC and the FPSC are each  
2 trying to address the potential of over-recovery by  
3 essentially capturing the same revenues twice of any  
4 concern?

5 A. In principle, yes. If both the FERC mechanism for  
6 addressing the concern about potential over-recovery by  
7 lowering transmission rates and the FPSC mechanism of  
8 flowing the same revenues back to customers through the  
9 fuel clause are in effect at the same time, the end  
10 result would be harm to the selling utility's  
11 shareholders due to under-recovery of costs. However,  
12 due to circumstances that have arisen recently in a  
13 docketed proceeding before the FERC involving Southern's  
14 Open Access Transmission Tariff, it appears that the  
15 potential that Gulf/Southern would prospectively be  
16 crediting the same revenues twice will be avoided for  
17 now.

18

19 Q. What has happened that has changed Gulf's concern on  
20 this issue?

21 A. The FERC's docketed proceeding in which Southern's Open  
22 Access Transmission Tariff is under review has several  
23 intervenors who are seeking changes to Southern's  
24 transmission rate tariff. Recently, the parties to that  
25 docketed proceeding (including the intervenors, the FERC

1 staff and Southern) have reached agreement in principle  
2 on a settlement that will, if approved, result in the  
3 termination of the contested proceeding. Although the  
4 settlement agreement has not yet been reduced to writing  
5 and is still subject to review and approval by the  
6 Administrative Law Judge assigned to hear the case and  
7 the FERC itself, we believe that the settlement will  
8 ultimately be approved. The net result of the  
9 settlement will be that Southern's firm "open access"  
10 transmission rates will be fixed for an undetermined  
11 amount of time, and will not be subject to annual  
12 updates for changes in investment, cost of capital,  
13 expense or load components. The settlement, if  
14 approved, also means that the non-firm revenue credits  
15 will not be updated annually so long as the fixed rate  
16 contemplated by the settlement agreement remains in  
17 effect.

18  
19 Q. How should Gulf Power Company allocate transmission  
20 revenues associated with its sale of economy energy  
21 between the retail and wholesale jurisdiction?

22 A. The Company continues to believe that any transmission  
23 revenues received by the Company due to economy energy  
24 transactions should be credited to operating revenues  
25 rather than through the fuel clause. In this fashion,

1 the FPSC's surveillance mechanism would be used to  
2 ensure that such revenues do not cause the Company to  
3 over-earn. By crediting the revenues to operating  
4 revenues, the Company avoids the prospect of having to,  
5 in effect, give away the same revenues twice. However,  
6 given the Commission's prior decision to credit such  
7 transmission revenues through the fuel clause, and given  
8 it is likely that for the foreseeable future the non-  
9 firm transmission revenues received by Gulf will not be  
10 flowed back to the FERC jurisdiction through annual  
11 updates to Southern's firm transmission rates, Gulf's  
12 only remaining concern relative to this issue involves  
13 the use of a transmission-related jurisdictional  
14 separation factor to allocate revenues between the  
15 wholesale and retail jurisdictions. This concern is  
16 addressed in the testimony of Gulf's witness S. D.  
17 Cranmer.

18

19 Q. Does this conclude your testimony?

20 A. Yes.

21

22

23

24

25

1                   **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2                                   **PREPARED DIRECT TESTIMONY**

3   **OF**

4   **KAREN O. ZWOLAK**

5  
6   **Q.**   Please state your name, address, occupation and employer.

7  
8   **A.**   My name is Karen O. Zwolak. My business address is 702  
9           North Franklin Street, Tampa, Florida 33602. My position  
10          is Manager - Energy Issues in the Regulatory Affairs  
11          Department of Tampa Electric.

12  
13   **Q.**   Please provide a brief outline of your educational  
14          background and business experience.

15  
16   **A.**   I received a Bachelor of Arts Degree in Microbiology in  
17          1977 and a Bachelor of Science degree in Chemical  
18          Engineering in 1985 from the University of South Florida.  
19          I began my engineering career in 1986 at the Florida  
20          Department of Environmental Regulation and was employed as  
21          a Permitting Engineer in the Industrial Wastewater Program.  
22          In 1990, I joined Tampa Electric Company as an engineer in  
23          the Environmental Planning Department and was responsible  
24          for permitting and compliance issues relating to wastewater

1 treatment and disposal. In 1995, I transferred to Tampa  
2 Electric's Energy Supply Department and assumed the duties  
3 of the plant chemical engineer at the F. J. Gannon Station.  
4 In 1997 I was promoted to Manager, Energy Issues in the  
5 Electric Regulatory Affairs Department. My present  
6 responsibilities include the areas of fuel adjustment,  
7 capacity cost recovery, environmental filings and rate  
8 design.

9  
10 Q. What is the purpose of your testimony?

11  
12 A. The purpose of my testimony is to present to the Commission  
13 the proposed Total Fuel and Purchased Power Cost Recovery  
14 factors and the proposed Capacity Cost Recovery factors for  
15 the period of January 1999 through December 1999.

16  
17 Q. Do you wish to sponsor an exhibit?

18  
19 A. Yes. Exhibit No. \_\_\_ (KOZ-2) is comprised of Schedules H-1  
20 for January - December, 1996 through 1999 and Schedules E-1  
21 through E-10 for January 1999 - December 1999. Also  
22 contained in this exhibit are Schedules E-2, E-3, E-5, E-6,  
23 E-7, E-8 and E-9 for the prior period April through  
24 December 1998. These schedules are furnished as back-up  
25 for the projected true-up for this period and consist of

1 five actual months and four projected months. These  
2 schedules are found in Exhibit No. 24 (KOZ-2), Fuel  
3 Projection.

4  
5 Fuel and Purchased Power Cost Recovery Factors / Capacity Cost  
6 Recovery Clause

7  
8 Q. What is the appropriate value of the fuel adjustment for  
9 the new period?

10  
11 A. The appropriate value for the new period is 2.255 cents per  
12 kwh before the normal application of factors that adjust  
13 for variations in line losses. Schedule E-1 of Exhibit No.  
14 24 (KOZ-2), Fuel Projection, shows the appropriate values  
15 for the Total Fuel and Purchased Power Cost Recovery Clause  
16 as projected for the period January through December 1999.

17  
18 Q. Please describe the information provided on Schedule E-1C.

19  
20 A. The GPIF and true-up factors are provided on Schedule E-1C.  
21 Tampa Electric has calculated a GPIF penalty of (\$188,231)  
22 which is to be included in the calculation of the Total  
23 Fuel and Purchased Power Cost Recovery Fuel factors.

24  
25 Additionally E-1C indicates the net true-up amount for the

1 April through December 1998 period. The net true-up amount  
2 for this period is an overrecovery of \$5,261,113. This  
3 overrecovery is comprised of a final true-up overrecovery  
4 amount of \$53,414 for the October 1997 through March 1998  
5 period and an estimated overrecovery in the amount of  
6 \$8,799,535 for the April 1998 through December 1998 period  
7 less the April through September 1998 overrecovery of  
8 \$3,591,836 which was carried over in the true-up  
9 calculation during the period October through December 1998  
10 as a result of extending the Fuel and Purchased Power Cost  
11 Recovery factors.

12  
13 Q. Please describe the information provided on Schedule E-1D.

14  
15 A. Schedule E-1D presents Tampa Electric's on-peak and off-  
16 peak fuel charge factors for January through December 1999.

17  
18 Q. What is the purpose of Schedule E-1E?

19  
20 A. The purpose of Schedule E-1E is to present the standard,  
21 on-peak and off-peak fuel charge factors after adjusting  
22 for variations in line losses.

23  
24 Q. Have the Fuel Recovery Loss Multiplier that reflect the  
25 variation in line-losses been modified?



- 1 A. Yes. Document No. 2 of Exhibit (KOZ-2) shows revised Fuel  
 2 Recovery Loss Multipliers and a revised Jurisdictional Loss  
 3 Multiplier which have been modified to reflect actual 1997  
 4 sales data and losses. Tampa Electric requests approval of  
 5 these factors for the calculation of fuel factors  
 6 applicable to each fuel group.  
 7
- 8 Q. Please summarize the proposed Fuel and Purchased Power Cost  
 9 Recovery factors by rate schedule for January through  
 10 December 1999.  
 11

12 A.

<u>Rate Schedule</u>	<u>Fuel Charge Factor (cents per kwh)</u>
Average Factor	2.255
RS, GS and TS	2.271
RST and GST	3.312 (on-peak)
	1.818 (off-peak)
SL-2, OL-1 and OL-3	2.042
GSD, GSLD, and SBF	2.259
GSDT, GSLDT, EV-X and SBFT	3.294 (on-peak)
	1.808 (off-peak)
IS-1, IS-3, SBI-1, SBI-3	2.183
IST-1, IST-3, SBIT-1, SBIT-3	3.184 (on-peak)
	1.747 (off-peak)

25

- 1 Q. How does Tampa Electric's proposed average fuel charge  
2 factor of 2.255 cents per kwh compare to the average fuel  
3 charge factor for the April through December 1998 period?  
4
- 5 A. The proposed fuel charge factor is .082 cents per kwh (or  
6 \$0.82 per 1000 kwh) lower than the average fuel charge  
7 factor of 2.337 cents per kwh for the April through  
8 December 1998 period.  
9
- 10 Q. Are you also requesting Commission approval of the  
11 projected Capacity Cost Recovery factors for the Company's  
12 various rate schedules?  
13
- 14 A. Yes. The Capacity Cost Recovery factors, prepared under my  
15 direction or supervision, are provided in Exhibit No. \_\_\_\_  
16 (KOZ-3), Capacity Cost Recovery.  
17
- 18 Q. What payments are included in Tampa Electric's capacity  
19 cost recovery factor?  
20
- 21 A. Tampa Electric is requesting recovery through the Capacity  
22 Cost Recovery factor of capacity payments for purchases of  
23 power made for retail and all requirements customers,  
24 excluding optional provision purchases for interruptible  
25 customers.

1 Q. Please summarize the proposed Capacity Cost Recovery Clause  
2 factors by rate schedule for the January through December  
3 1999 period.

4

5 A.

6 <u>Rate Schedule</u>	Capacity Cost Recovery <u>Factor (cents per kwh)</u>
7 RS	0.206
8 GS and TS	0.174
9 GSD, EV-X	0.143
10 GSLD and SBF	0.129
11 IS-1, IS-3, SBI-1, SBI-3	0.012
12 SL-2, OL-1 and OL-3	0.042

13

14 These factors are shown in Exhibit No. 26 (KOZ-3), page 3  
15 of 5.

16

17 Q. How does the proposed Capacity Cost Recovery factor compare  
18 to the previous year's factor?

19

20 A. Previous factors were calculated based on six-month periods  
21 and the factors fluctuated based on sales between the two  
22 periods. Typically the summer factor (April through  
23 September) results in lower Capacity Cost Recovery factors  
24 than the winter period (October through March) since summer  
25 sales are higher. By calculating the factor on a twelve

1 month basis, the capacity factor is "levelized" similar to  
2 the Conservation Cost Recovery factor.  
3

4 Events Affecting the Projection Filing  
5

6 Q. Are there any events reflected in the calculation of the  
7 1999 Fuel and Purchased Power and Capacity Cost Recovery  
8 projections that are not reflected in the April through  
9 December 1998 projections as filed in January 1998?  
10

11 A. Yes. There are three. These are: 1) the completion of a  
12 Temporary Base Rate Reduction which removes the related  
13 credit on customer's bills, 2) the establishment of new  
14 coal waterborne transportation rates which lowers the Fuel  
15 and Purchased Power Cost Recovery factors, and 3) the  
16 change in how Tampa Electric is serving the Florida  
17 Municipal Power Agency (FMPPA) wholesale agreement which has  
18 no effect on the Fuel and Purchased Power Cost Recovery and  
19 Capacity Cost Recovery factors.  
20

21 Q. When does the Temporary Base Rate Reduction factor cease?  
22

23 A. Starting with the first billing cycle in January 1999,  
24 customer bills will no longer reflect the Temporary Base  
25 Rate Reduction. This factor was established on September

1 25, 1996 when Tampa Electric, the Office of Public Counsel  
2 and the Florida Industrial Power Users Group agreed to a  
3 stipulation in which Tampa Electric agreed to reflect a \$25  
4 million temporary base rate reduction as a line-item credit  
5 on customers' bills. This reduction commenced October 1,  
6 1997 and ends 15 months later on December 31, 1998. The  
7 actual reduction is to be netted against 1999 refunds which  
8 may have otherwise been made pursuant to the stipulations  
9 reached in Docket No. 950379-EI approved in Order No. PSC-  
10 96-0670-S-EI, issued May 20, 1996 and in Docket No. 960409-  
11 EI, approved in Order No. PSC-96-1300-S-EI, issued October  
12 24, 1996.

13  
14 Q. How will Tampa Electric true-up the actual amount refunded  
15 through the Temporary Base Rate Reduction?

16  
17 A. Tampa Electric has calculated the Base Rate Reduction to  
18 be refunded in each upcoming period based on projected  
19 revenues for that period. In keeping with the approved  
20 stipulation, Tampa Electric proposes to true-up the amount  
21 actually refunded at the next available true-up filing in  
22 1999 and requests that recovery of any differential amount  
23 be collected or refunded in the January through December  
24 2000 period.

25

- 1 Q. Please describe the second event you identified above.  
2
- 3 A. Tampa Electric's current coal transportation contract with  
4 TECO Transport will expire December 31, 1998. Tampa  
5 Electric has negotiated a new contract with TECO Transport  
6 in which new rates have been established which will be  
7 effective January 1, 1999 through December 31, 2003.  
8
- 9 Q. How will the new transportation rates impact Tampa Electric  
10 customers?  
11
- 12 A. The new contract establishes waterborne transportation  
13 rates which are lower than those contained in the previous  
14 contract. Tampa Electric has estimated the savings will be  
15 approximately \$3 million in transportation costs during  
16 1999 due to this new contract pricing.  
17
- 18 Q. How does the new transportation contract pricing compare to  
19 the benchmark analysis of rail transportation as provided  
20 in Exhibit RB-1, filed with the Commission in June of 1998?  
21
- 22 A. Benchmark data for rail transportation submitted by Tampa  
23 Electric witness Rod Burkhardt for the June projection  
24 filing (Exhibit RB-1), demonstrated that Tampa Electric's  
25 transportation costs were significantly lower than those

1 reported by the utilities included in the benchmark  
2 analysis. Because Tampa Electric's new contract with TECO  
3 Transport will reduce transportation costs, the new  
4 contract pricing will also be well below the charges  
5 reported in the benchmark data.  
6

7 Q. Please describe the third event you identified above.  
8

9 A. Since the January 1998 filing that projected the Fuel and  
10 Purchased Power Cost Recovery and Capacity Cost Recovery  
11 factors that are in effect through December 1998, Tampa  
12 Electric has changed how it is serving the FMPA wholesale  
13 agreement by purchasing resources from third parties. The  
14 purchases began March 1, 1998 and by April 28, 1998, the  
15 total purchases equaled the sale to FMPA.  
16

17 Q. How are these purchases and the FMPA sale reflected in the  
18 calculation of the Fuel and Purchased Power Cost Recovery  
19 and Capacity Cost Recovery factors for the period January  
20 1999 through December 1999?  
21

22 A. These transactions do not affect the cost recovery factor  
23 in any way. The energy associated with the FMPA sale,  
24 shown in Schedule E6, equals the energy purchased from  
25 third parties as shown in Schedule E7. In other words, the

1 energy sold equals the energy purchased and no costs are  
2 borne by Tampa Electric customers.

3  
4 Q. What is the composite effect of the above changes on a  
5 1,000 kwh residential Customer?

6  
7 A. A residential bill for 1,000 kwh will increase \$0.63  
8 beginning January 1999. See table below.

	Apr. 98 thru	Jan 99 thru
<u>Type of Charge</u>	<u>Dec. 98</u>	<u>Dec. 99</u>
Customer	\$ 8.50	\$ 8.50
Energy	43.42	43.42
Conservation	1.65	1.65 <sup>1</sup>
Environmental	0.33	0.29
Fuel	23.54	22.71
Capacity	<u>1.88</u>	<u>2.06</u>
Subtotal	79.32	78.63
Temporary Base Rate Reduction	(1.30)	0.00
FGR Tax	<u>2.00</u>	<u>2.02</u>
Total	\$ 80.02	\$ 80.65

23

---

<sup>1</sup> Rate approved through March 1999.



1 Q. Please explain the \$0.63 per 1000 kwh increase in the  
2 typical residential bill.

3

4 A. The discontinuation of the Temporary Base Rate Reduction  
5 Factor increased the bill by \$1.30 per 1,000 kwh. Despite  
6 this increase, Tampa Electric was able to achieve lower  
7 combined cost recovery clause reductions of \$0.69 per 1,000  
8 kwh so that overall residential customers incurred only a  
9 \$0.63 per 1000 kwh increase.

10

11 Q. When should the new rates go into effect?

12

13 A. The new rates should go into effect concurrent with the  
14 first billing cycle in January 1999.

15

16 Q. Does this conclude your testimony?

17

18 A. Yes it does.

19

20

1                   BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

2                               PREPARED DIRECT TESTIMONY

3   OF

4   GEORGE A. KESELOWSKY

5  
6   Q.   Will you please state your name, business address, and  
7        employer?

8  
9   A.   My name is George A. Keselowsky and my business address is  
10       Post Office Box 111, Tampa, Florida 33601. I am employed  
11       by Tampa Electric Company.

12  
13   Q.   Please furnish us with a brief outline of your educational  
14        background and business experience.

15  
16   A.   I graduated in 1972 from the University of South Florida  
17        with a Bachelor of Science Degree in Mechanical  
18        Engineering. I have been employed by Tampa Electric  
19        Company in various engineering positions since that time.  
20        My current position is that of Senior Consulting Engineer  
21        - Energy Supply Engineering.

22  
23   Q.   What are your current responsibilities?

24  
25   A.   I am responsible for testing and reporting unit

1 performance, and the compilation and reporting of  
2 generation statistics.

3  
4 Q. What is the purpose of your testimony?

5  
6 A. My testimony presents Tampa Electric Company's methodology  
7 for determining the various factors required to compute the  
8 Generating Performance Incentive Factor (GPIF) as ordered  
9 by this Commission.

10

11 Q. Have you prepared an exhibit showing the various elements  
12 of the derivation of Tampa Electric Company's GPIF formula?

13

14 A. Yes, I have prepared, under my direction and supervision,  
15 an exhibit entitled "Tampa Electric Company, Generating  
16 Performance Incentive Factor" October 1998 - December 1998,  
17 consisting of 35 pages filed with the Commission on  
18 October 5, 1998. (Have identified as Exhibit GAK-2). The  
19 data prepared within this exhibit is consistent with the  
20 GPIF Implementation Manual previously approved by this  
21 Commission.

22

23

24

25

- 1 Q. Which generating units on Tampa Electric Company's system  
2 are included in the determination of your GPIF?  
3
- 4 A. Six of our coal-fired units are included. These are:  
5 Gannon Station Units 5 and 6; and Big Bend Station Units 1,  
6 2, 3, and 4.  
7
- 8 Q. Will you describe how Tampa Electric Company evolved the  
9 various factors associated with the GPIF as ordered by this  
10 Commission?  
11
- 12 A. Yes. First, the two factors to be used, as set forth by  
13 the Commission Staff, are unit availability and station  
14 heat rate.  
15
- 16 Q. Please continue.  
17
- 18 A. A target was established for equivalent availability for  
19 each unit considered for this period. Heat rate targets  
20 were also established for each unit. A range of potential  
21 improvement and degradation was determined for each of  
22 these parameters.  
23  
24  
25

- 1 Q. Would you describe how the target values for unit  
2 availability were determined?  
3
- 4 A. Yes I will. The Planned Outage Factor (POF) and the  
5 Equivalent Unplanned Outage Factor (EUOF) were subtracted  
6 from 100% to determine the target equivalent availability.  
7 The factors for each of the 6 units included within the  
8 GPIF are shown on page 5 of my exhibit. For example, the  
9 projected EUOF for Big Bend Unit Two is 14.6%. The Planned  
10 Outage Factor for this same unit during this period is 0%.  
11 Therefore, the target equivalent availability for this unit  
12 equals:  
13
- $$14 \quad 100\% - [(14.6\% + 0\%)] = 85.4\%$$
- 15
- 16 This is shown on page 4, column 3 of my exhibit.  
17
- 18 Q. How was the potential for unit availability improvement  
19 determined?  
20
- 21 A. Maximum equivalent availability is arrived at using the  
22 following formula.  
23  
24  
25

1        Equivalent Availability Maximum

2         $EAF_{MAX} = 100\% - [0.8 (EUOF_1) + 0.95 (POF_1)]$

3  
4        The factors included in the above equations are the same  
5        factors that determine target equivalent availability. To  
6        attain the maximum incentive points, a 20% reduction in  
7        Forced Outage and Maintenance Outage Factors (EUOF), plus  
8        a 5% reduction in the Planned Outage Factor (POF) will be  
9        necessary. Continuing with our example on Big Bend Unit  
10       Two:

11  
12        $EAF_{MAX} = 100\% - [0.8 (14.6\%) + 0.95 (0\%)] = 88.3\%$

13  
14       This is shown on page 4, column 4 of my exhibit.

15  
16       Q.    How was the potential for unit availability degradation  
17       determined?

18  
19       A.    The potential for unit availability degradation is  
20       significantly greater than is the potential for unit  
21       availability improvement. This concept was discussed  
22       extensively and approved in earlier hearings before this  
23       Commission. Tampa Electric Company's approach to  
24       incorporating this skewed effect into the unit availability  
25       tables is to use a potential degradation range equal to

1 Twice the potential improvement. Consequently, minimum  
2 equivalent availability is arrived at via the following formula:

3

4 Equivalent Availability Minimum

5  $EAF_{MIN} = 100\% - [1.4 (EUOF_?) + 1.10 (POF_?)]$

6

7 Again, continuing with our example of Big Bend Unit Two.

8

9  $EAF_{MIN} = 100\% - [1.4 (14.6\%) + 1.1 (0\%)] = 79.6\%$

10

11 Equivalent availability MAX and MIN for the other five units is  
12 computed in a similar manner.

13

14 Q. How do you arrive at the Planned Outage, Maintenance Outage  
15 and Forced Outage Factors?

16

17 A. Our planned outages for this period are shown on page 19 of  
18 my exhibit. A Critical Path Method (C.P.M.) for each major  
19 planned outage which affects GPIF is included in my  
20 exhibit. For example, Big Bend Unit 4 is scheduled for a  
21 annual maintenance outage November 7 to November 27, 1998.  
22 There are 504 planned outage hours scheduled, and a total  
23 of 2209 hours during this 3 month period. Consequently,  
24 the Planned Outage Factor for Unit 4 at Big Bend is

25

1 504/2209 x 100% or 22.8%. This factor is shown on pages 5  
2 and 16 of my exhibit. Big Bend Unit 1 has a planned outage  
3 factor of 27.4%. Big Bend Units 2 and 3 have planned  
4 outage factors of zero, as does Gannon Unit 6. Gannon Unit  
5 5 has a planned outage factor of 15.2%.

6  
7 **Q.** How did you arrive at the Forced Outage and Maintenance  
8 Outage Factors on each unit?

9  
10 **A.** Graphs of both of these factors (adjusted for planned  
11 outages) vs. time are prepared. Both monthly data and 12  
12 month moving average data are recorded. For each unit the  
13 most current, June 1998, 12 month ending value was used as  
14 a basis for the projection. This value was adjusted up or  
15 down by analyzing trends and causes for recent forced and  
16 maintenance outages. All projected factors are based upon  
17 historical unit performance, engineering judgment, time  
18 since last planned outage, and equipment performance  
19 resulting in a forced or maintenance outage. These target  
20 factors are additive and result in a EUOF of 18.6% for  
21 Gannon Unit Five. The Equivalent Unplanned Outage Factor  
22 (EUOF) for Gannon Unit Five is verified by the data shown  
23 on page 13, lines 3, 5, 10 and 11 of my exhibit and  
24 calculated using the formula:

25



1 EUOF =  $\frac{(\text{FOH} + \text{EFOH} + \text{MOH} + \text{EMOH})}{\text{Period Hours}} \times 100$

2  
3 or

4 EUOF =  $\frac{(362 + 49)}{2209} \times 100 = 18.6\%$

5  
6 Relative to Gannon Unit Five, the EUOF of 15.2% forms the  
7 basis of our Equivalent Availability target development as  
8 shown on sheets 4 and 5 of my exhibit.

9  
10 Q. Please continue with your review of the remaining units.

11  
12 Big Bend Unit One

13 A. The projected EUOF for this unit is 12.3% during this  
14 period. This unit will have a planned outage this period  
15 and the Planned Outage Factor is 27.4%. This results in a  
16 target equivalent availability of 60.3% for the period.

17  
18 Big Bend Unit Two

19 The projected EUOF for this unit is 14.6%. This unit will  
20 not have a planned outage during this period and the  
21 Planned Outage Factor is 0%. Therefore, the target  
22 equivalent availability for this unit is 85.4%.

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Big Bend Unit Three

The projected EUOF for this unit is 18.1%. This unit will not have a planned outage this period and the Planned Outage Factor is 0%. Therefore, the target equivalent availability for this unit is 81.9%.

Big Bend Unit Four

The projected EUOF for this unit is 7.6%. This unit will have a planned outage during this period and the Planned Outage Factor is 22.8%. This results in a target equivalent availability of 69.6% for the period.

Gannon Unit Five

The projected EUOF for this unit is 18.6%. This unit will have a planned outage during this period and the Planned Outage Factor is 15.2%. Therefore, the target equivalent availability for this unit is 66.2%.

Gannon Unit Six

The projected EUOF for this unit is 17.4%. This unit will not have a planned outage during this period and the Planned Outage Factor is 0%. Therefore, the target equivalent availability for this unit is 82.6%.

- 1 Q. As you graph and monitor Forced and Maintenance Outage  
2 Factors, why are they adjusted for planned outage hours?  
3
- 4 A. This adjustment makes these factors more accurate and  
5 comparable. Obviously, a unit in a planned outage stage or  
6 reserve shutdown stage will not incur a forced or  
7 maintenance outage. Since our units are usually base  
8 loaded, reserve shutdown is generally not a factor. To  
9 demonstrate the effects of a planned outage, note the EUOR  
10 and EUOF for Gannon Unit Five on page 13. During the  
11 months of November, and December, EUOF and EUOR are equal.  
12 This is due to the fact that no planned outages are  
13 scheduled during these months. During the month of  
14 October, EUOR exceeds EUOF. The reason for this difference  
15 is the scheduling of a planned outage. The adjusted  
16 factors apply to the period hours after planned outage  
17 hours have been extracted.  
18
- 19 Q. Does this mean that both rate and factor data are used in  
20 calculated data?  
21
- 22 A. Yes it does. Rates provide a proper and accurate method of  
23 arriving at the unit parameters. These are then converted  
24 to factors since they are directly additive. That is, the  
25 Forced Outage Factor + Maintenance Outage Factor + Planned

- 1           Outage Factor + Equivalent Availability = 100%. Since  
2           factors are additive, they are easier to work with and to  
3           understand.  
4
- 5   **Q.**    Has Tampa Electric Company prepared the necessary heat rate  
6           data required for the determination of the Generating  
7           Performance Incentive Factor?  
8
- 9   **A.**    Yes. Target heat rates as well as ranges of potential  
10           operation have been developed as required.  
11
- 12   **Q.**    How were these targets determined?  
13
- 14   **A.**    Net heat rate data for the three most recent summer  
15           periods, along with the PROMOD IV program, formed the basis  
16           of our target development. Projections of unit performance  
17           were made with the aid of PROMOD IV. The historical data  
18           and the target values are analyzed to assure applicability  
19           to current conditions of operation. This provides  
20           assurance that any periods of abnormal operations, or  
21           equipment modifications having material effect on heat rate  
22           can be taken into consideration.  
23  
24  
25

1 Q. Have you developed the heat rate targets in accordance with  
2 GPIF guidelines?

3  
4 A. Yes.

5  
6 Q. How were the ranges of heat rate improvement and heat rate  
7 degradation determined?

8  
9 A. The ranges were determined through analysis of historical  
10 net heat rate and net output factor data. This is the same  
11 data from which the net heat rate vs. net output factor  
12 curves have been developed for each unit. This information  
13 is shown on pages 27 through 32 of my exhibit.

14  
15 Q. Would you elaborate on the analysis used in the  
16 determination of the ranges?

17  
18 A. The net heat rate vs. net output factor curves are the results  
19 of a first order curve fit to historical data. The standard  
20 error of the estimate of this data was determined, and a factor  
21 was applied to produce a band of potential improvement and  
22 degradation. Both the curve fit and the standard error of the  
23 estimate were performed by computer program for each unit. These  
24 curves are also used in post period adjustments to actual heat  
25 rates to account for unanticipated changes in unit dispatch.

1 Q. Can you summarize your heat rate projection for the October  
2 1998 through December 1998 period?

3  
4 A. Yes. The heat rate target for Big Bend Unit 1 is 10,311  
5 Btu/Net kwh. The range about this value, to allow for  
6 potential improvement or degradation, is  $\pm 353$  Btu/Net kwh.  
7 The heat rate target for Big Bend Unit 2 is 10,311 Btu/Net  
8 kwh with a range of  $\pm 363$  Btu/Net kwh. The heat rate target  
9 for Big Bend Unit 3 is 10,051 Btu/Net kwh, with a range of  
10  $\pm 387$  Btu/Net kwh. The heat rate target for Big Bend Unit  
11 4 is 9,945 Btu/Net kwh with a range of  $\pm 243$  Btu/Net kwh.  
12 The heat rate target for Gannon Unit 5 is 10,242 Btu/Net  
13 kwh with a range of  $\pm 519$  Btu/Net kwh. The heat rate target  
14 for Gannon Unit 6 is 10,453 Btu/Net kwh with a range of  
15  $\pm 380$  Btu/Net kwh. A zone of tolerance of  $\pm 75$  Btu/Net kwh  
16 is included within the range for each target. This is  
17 shown on page 4, and pages 7 through 12 of my exhibit.

18  
19 Q. Do you feel that the heat rate targets and ranges in your  
20 projection meet the criteria of the GPIF and the philosophy  
21 of this Commission?

22  
23 A. Yes I do.  
24  
25

- 1 Q. After determining the target values and ranges for average  
2 net operating heat rate and equivalent availability, what  
3 is the next step in the GPIF?  
4
- 5 A. The next step is to calculate the savings and weighting  
6 factor to be used for both average net operating heat rate  
7 and equivalent availability. This is shown on pages 7  
8 through 12. Our PROMOD IV cost simulation model was used  
9 to calculate the total system fuel cost if all units  
10 operated at target heat rate and target availability for  
11 the period. This total system fuel cost of \$56,823,100 is  
12 shown on page 6 column 2.  
13
- 14 The PROMOD IV output was then used to calculate total  
15 system fuel cost with each unit individually operating at  
16 maximum improvement in equivalent availability and each  
17 station operating at maximum improvement in average net  
18 operating heat rate. The respective savings are shown on  
19 page 6 column 4. After all the individual savings are  
20 calculated, column 4 is totaled: \$2,610,500 reflects the  
21 savings if all units operated at maximum improvement. A  
22 weighting factor for each parameter is then calculated by  
23 dividing individual savings by the total. For Big Bend  
24 Unit Two, the weighting factor for equivalent availability  
25 is 6.48% as shown in the right hand column on page 6.

1 Pages 7 thru 12 show the point table, the Fuel  
2 Savings/(Loss), and the equivalent availability or heat  
3 rate value. The individual weighting factor is also shown.  
4 For example, on Big Bend Unit Two, page 10, if the unit  
5 operates at 88.3% equivalent availability, fuel savings  
6 would equal \$169,200 and 10 equivalent availability points  
7 would be awarded.

8  
9 The Generating Performance Incentive Factor Reward/Penalty  
10 Table on page 2 is a summary of the tables on pages 7  
11 through 12. The left hand column of this document shows  
12 the incentive points for Tampa Electric Company. The  
13 center column shows the total fuel savings and is the same  
14 amount as shown on page 6, column 4, \$2,610,500. The right  
15 hand column of page 2 is the estimated reward or penalty  
16 based upon performance.

- 17  
18 Q. How were the maximum allowed incentive dollars determined?  
19  
20 A. Referring to my exhibit on page 3, line 5, the estimated  
21 average common equity for the period October 1998 -  
22 December 1998 is shown to be \$1,192,060,750. This produces  
23 the maximum allowed jurisdictional incentive dollars of  
24 \$1,205,569 shown on line 12.

25



1 Q. Is there any other constraint set forth by this Commission  
2 regarding the magnitude of incentive dollars?

3

4 A. Yes. Incentive dollars are not to exceed fifty percent of  
5 fuel savings. Page 2 of my exhibit demonstrates that this  
6 constraint is met.

7

8 Q. Do you wish to summarize your testimony on the GPIF?

9

10 A. Yes. To the best of my knowledge and understanding, Tampa  
11 Electric Company has fully complied with the Commission's  
12 directions, philosophy, and methodology in our  
13 determination of Generating Performance Incentive Factor.  
14 The GPIF for Tampa Electric Company is expressed by the  
15 following formula for calculating Generating Performance  
16 Incentive Points (GPIP):

17

$$\begin{aligned}
 \text{GPIP} = & ( 0.0417 \text{ EAP}_{\text{GN5}} + 0.0613 \text{ EAP}_{\text{GN6}} \\
 & + 0.0673 \text{ EAP}_{\text{BB1}} + 0.0648 \text{ EAP}_{\text{BB2}} \\
 & + 0.0909 \text{ EAP}_{\text{BB3}} + 0.0416 \text{ EAP}_{\text{BB4}} \\
 & + 0.0881 \text{ HRP}_{\text{GN5}} + 0.1176 \text{ HRP}_{\text{GN6}} \\
 & + 0.0854 \text{ HRP}_{\text{BB1}} + 0.1165 \text{ HRP}_{\text{BB2}} \\
 & + 0.1414 \text{ HRP}_{\text{BB3}} + 0.0834 \text{ HRP}_{\text{BB4}}
 \end{aligned}$$

24 Where:

25 GPIP = Generating performance incentive points.

- 1 EAP = Equivalent availability points awarded/deducted for  
2 Units 5 and 6 at Gannon and Units 1, 2, 3 and 4 at  
3 Big Bend.
- 4 HRP = Average net heat rate points awarded/deducted for  
5 Units 5 and 6 at Gannon and Units 1, 2, 3 and 4 at  
6 Big Bend.
- 7
- 8 Q. Have you prepared a document summarizing the GPIF targets  
9 for the October 1998 - December 1998 period?  
10
- 11 A. Yes. The availability and heat rate targets for each unit  
12 are listed on attachment "A" to this testimony entitled  
13 "Tampa Electric Company GPIF Targets, October 1, 1998  
14 - December 31, 1998".  
15
- 16 Q. Do you wish to sponsor an exhibit consisting of estimated  
17 unit performance data supporting the fuel adjustment?  
18
- 19 A. Yes I do. (Have identified as Exhibit GAK-3).  
20
- 21 Q. Briefly describe this exhibit.  
22
- 23 A. This exhibit consists of 23 pages. This data is Tampa Electric  
24 Company's estimate of the Unit Performance Data and Unit Outage  
25 Data for the October 1998 - December 1998 period.

1 Q. Does this conclude your testimony?

2

3 A. Yes.

4

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1                   BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

2                               PREPARED DIRECT TESTIMONY

3   OF

4   GEORGE A. KESELOWSKY

5  
6   Q.   Will you please state your name, business address, and  
7        employer?

8  
9   A.   My name is George A. Keselowsky and my business address is  
10       Post Office Box 111, Tampa, Florida 33601. I am employed  
11       by Tampa Electric Company.

12  
13   Q.   Please furnish us with a brief outline of your educational  
14        background and business experience.

15  
16   A.   I graduated in 1972 from the University of South Florida  
17        with a Bachelor of Science Degree in Mechanical  
18        Engineering. I have been employed by Tampa Electric  
19        Company in various engineering positions since that time.  
20        My current position is that of Senior Consulting Engineer  
21        - Energy Supply Engineering.

22  
23   Q.   What are your current responsibilities?

24  
25   A.   I am responsible for testing and reporting unit

1 performance, and the compilation and reporting of  
2 generation statistics.

3

4 Q. What is the purpose of your testimony?

5

6 A. My testimony presents Tampa Electric Company's methodology  
7 for determining the various factors required to compute the  
8 Generating Performance Incentive Factor (GPIF) as ordered  
9 by this Commission.

10

11 Q. Have you prepared an exhibit showing the various elements  
12 of the derivation of Tampa Electric Company's GPIF formula?

13

14 A. Yes, I have prepared, under my direction and supervision,  
15 an exhibit entitled "Tampa Electric Company, Generating  
16 Performance Incentive Factor" January 1999 - December 1999,  
17 consisting of 35 pages filed with the Commission on  
18 October 5, 1998. (Have identified as Exhibit GAK-2). The  
19 data prepared within this exhibit is consistent with the  
20 GPIF Implementation Manual previously approved by this  
21 Commission.

22

23

24

25

- 1 Q. Which generating units on Tampa Electric Company's system  
2 are included in the determination of your GPIF?  
3
- 4 A. Six of our coal-fired units are included. These are:  
5 Gannon Station Units 5 and 6; and Big Bend Station Units 1,  
6 2, 3, and 4.  
7
- 8 Q. Will you describe how Tampa Electric Company evolved the  
9 various factors associated with the GPIF as ordered by this  
10 Commission?  
11
- 12 A. Yes. First, the two factors to be used, as set forth by  
13 the Commission Staff, are unit availability and station  
14 heat rate.  
15
- 16 Q. Please continue.  
17
- 18 A. A target was established for equivalent availability for  
19 each unit considered for this period. Heat rate targets  
20 were also established for each unit. A range of potential  
21 improvement and degradation was determined for each of  
22 these parameters.  
23  
24  
25

1 Q. Would you describe how the target values for unit  
2 availability were determined?

3  
4 A. Yes I will. The Planned Outage Factor (POF) and the  
5 Equivalent Unplanned Outage Factor (EUOF) were subtracted  
6 from 100% to determine the target equivalent availability.  
7 The factors for each of the 6 units included within the  
8 GPIF are shown on page 5 of my exhibit. For example, the  
9 projected EUOF for Big Bend Unit Two is 14.0%. The Planned  
10 Outage Factor for this same unit during this period is  
11 3.8%. Therefore, the target equivalent availability for  
12 this unit equals:

$$100\% - [(14.0\% + 3.8\%)] = 82.2\%$$

13  
14  
15  
16 This is shown on page 4, column 3 of my exhibit.

17  
18 Q. How was the potential for unit availability improvement  
19 determined?

20  
21 A. Maximum equivalent availability is arrived at using the  
22 following formula.

23  
24  
25

1        Equivalent Availability Maximum

2         $EAF_{MAX} = 100\% - [0.8 (EUOF_1) + 0.95 (POF_1)]$

3  
4        The factors included in the above equations are the same  
5        factors that determine target equivalent availability. To  
6        attain the maximum incentive points, a 20% reduction in  
7        Forced Outage and Maintenance Outage Factors (EUOF), plus  
8        a 5% reduction in the Planned Outage Factor (POF) will be  
9        necessary. Continuing with our example on Big Bend Unit  
10       Two:

11  
12        $EAF_{MAX} = 100\% - [0.8 (14.0\%) + 0.95 (3.8\%)] = 85.2\%$

13  
14       This is shown on page 4, column 4 of my exhibit.

15  
16       **Q.** How was the potential for unit availability degradation  
17       determined?

18  
19       **A.** The potential for unit availability degradation is  
20       significantly greater than is the potential for unit  
21       availability improvement. This concept was discussed  
22       extensively and approved in earlier hearings before this  
23       Commission. Tampa Electric Company's approach to  
24       incorporating this skewed effect into the unit availability  
25       tables is to use a potential degradation range equal to



1 Twice the potential improvement. Consequently, minimum  
2 equivalent availability is arrived at via the following formula:

3

4 Equivalent Availability Minimum

5  $EAF_{MIN} = 100\% - [1.4 (EUOF_7) + 1.10 (POF_7)]$

6

7 Again, continuing with our example of Big Bend Unit Two.

8

9  $EAF_{MIN} = 100\% - [1.4 (14.0\%) + 1.1 (3.8)] = 76.2\%$

10

11 Equivalent availability MAX and MIN for the other five units is  
12 computed in a similar manner.

13

14 Q. How do you arrive at the Planned Outage, Maintenance Outage  
15 and Forced Outage Factors?

16

17 A. Our planned outages for this period are shown on page 19 of  
18 my exhibit. A Critical Path Method (C.P.M.) for each major  
19 planned outage which affects GPIF is included in my  
20 exhibit. For example, Big Bend Unit 3 is scheduled for a  
21 planned outage February 20 to April 2, 1999. There are  
22 1008 planned outage hours scheduled for the 1999 period,  
23 and a total of 8760 hours during this 12 month period.  
24 Consequently, the Planned Outage Factor for Unit 3 at Big

25

1 Bend is  $1008/8760 \times 100\%$  or 11.5%. This factor is shown on  
2 pages 5 and 17 of my exhibit. Big Bend Unit 4 has a  
3 planned outage factor of 5.8%. Big Bend Units 1 and 2 have  
4 planned outage factors of 3.8%. Gannon Units 5 and 6 have  
5 planned outage factors of 5.8% and 13.4% respectively.  
6

7 Q. How did you arrive at the Forced Outage and Maintenance  
8 Outage Factors on each unit?  
9

10 A. Graphs of both of these factors (adjusted for planned  
11 outages) vs. time are prepared. Both monthly data and 12  
12 month moving average data are recorded. For each unit the  
13 most current, June 1998, 12 month ending value was used as  
14 a basis for the projection. This value was adjusted up or  
15 down by analyzing trends and causes for recent forced and  
16 maintenance outages. All projected factors are based upon  
17 historical unit performance, engineering judgment, time  
18 since last planned outage, and equipment performance  
19 resulting in a forced or maintenance outage. These target  
20 factors are additive and result in a EUOF of 16.0% for Big  
21 Bend Unit Three. The Equivalent Unplanned Outage Factor  
22 (EUOF) for Big Bend Unit Three is verified by the data  
23 shown on page 17, lines 3, 5, 10 and 11 of my exhibit and  
24 calculated using the formula:  
25

1 EUOF =  $\frac{(FOH + EFOH + MOH + EMOH)}{\text{Period Hours}} \times 100$   
2

3 or

4 EUOF =  $\frac{(953 + 449)}{8760} \times 100 = 16.0\%$   
5

6 Relative to Big Bend Unit Three, the EUOF of 16.0% forms  
7 the basis of our Equivalent Availability target development  
8 as shown on sheets 4 and 5 of my exhibit.  
9

10 Q. Please continue with your review of the remaining units.  
11

12 Big Bend Unit One

13 A. The projected EUOF for this unit is 16.4% during this  
14 period. This unit will have a planned outage this period  
15 and the Planned Outage Factor is 3.8%. This results in a  
16 target equivalent availability of 79.8% for the period.  
17

18 Big Bend Unit Two

19 The projected EUOF for this unit is 14.0%. This unit will  
20 have a planned outage during this period and the Planned  
21 Outage Factor is 3.8%. Therefore, the target equivalent  
22 availability for this unit is 82.2%.  
23  
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Big Bend Unit Three

The projected EUOF for this unit is 16.0%. This unit will have a planned outage this period and the Planned Outage Factor is 11.5%. Therefore, the target equivalent availability for this unit is 72.5%.

Big Bend Unit Four

The projected EUOF for this unit is 9.2%. This unit will have a planned outage during this period and the Planned Outage Factor is 5.8%. This results in a target equivalent availability of 85.0% for the period.

Gannon Unit Five

The projected EUOF for this unit is 20.6%. This unit will have a planned outage during this period and the Planned Outage Factor is 5.8%. Therefore, the target equivalent availability for this unit is 73.6%.

Gannon Unit Six

The projected EUOF for this unit is 15.1%. This unit will have a planned outage during this period and the Planned Outage Factor is 13.4%. Therefore, the target equivalent availability for this unit is 71.5%.

- 1 Q. Would you summarize your testimony regarding Equivalent  
2 Availability Factor (EAF)?  
3
- 4 A. Yes I will. Please note on page 5 that the GPIF system  
5 weighted Equivalent Availability Factor (EAF) equals 76.9%.  
6 This target compares very favorably to previous GPIF  
7 periods and is in fact, better than two of the three past  
8 periods when compared on a common planned outage factor  
9 basis.  
10
- 11 Q. As you graph and monitor Forced and Maintenance Outage  
12 Factors, why are they adjusted for planned outage hours?  
13
- 14 A. This adjustment makes these factors more accurate and  
15 comparable. Obviously, a unit in a planned outage stage or  
16 reserve shutdown stage will not incur a forced or  
17 maintenance outage. Since our units are usually base  
18 loaded, reserve shutdown is generally not a factor. To  
19 demonstrate the effects of a planned outage, note the EUOR  
20 and EUOF for Gannon Unit Six on page 14. During the months  
21 of January through March, and June through December, EUOF  
22 and EUOR are equal. This is due to the fact that no  
23 planned outages are scheduled during these months. During  
24 the months of April and May, EUOR exceeds EUOF. The reason  
25 for this difference is the scheduling of a planned outage.

1 The adjusted factors apply to the period hours after  
2 planned outage hours have been extracted.

3  
4 Q. Does this mean that both rate and factor data are used in  
5 calculated data?

6  
7 A. Yes it does. Rates provide a proper and accurate method of  
8 arriving at the unit parameters. These are then converted  
9 to factors since they are directly additive. That is, the  
10 Forced Outage Factor + Maintenance Outage Factor + Planned  
11 Outage Factor + Equivalent Availability = 100%. Since  
12 factors are additive, they are easier to work with and to  
13 understand.

14  
15 Q. Has Tampa Electric Company prepared the necessary heat rate  
16 data required for the determination of the Generating  
17 Performance Incentive Factor?

18  
19 A. Yes. Target heat rates as well as ranges of potential  
20 operation have been developed as required.

21  
22 Q. How were these targets determined?

23  
24 A. Net heat rate data for the three most recent summer  
25 periods, along with the PROMOD IV program, formed the basis

1 of our target development. Projections of unit performance  
2 were made with the aid of PROMOD IV. The historical data  
3 and the target values are analyzed to assure applicability  
4 to current conditions of operation. This provides  
5 assurance that any periods of abnormal operations, or  
6 equipment modifications having material effect on heat rate  
7 can be taken into consideration.  
8

9 Q. Have you developed the heat rate targets in accordance with  
10 GPIF guidelines?  
11

12 A. Yes.  
13

14 Q. How were the ranges of heat rate improvement and heat rate  
15 degradation determined?  
16

17 A. The ranges were determined through analysis of historical  
18 net heat rate and net output factor data. This is the same  
19 data from which the net heat rate vs. net output factor  
20 curves have been developed for each unit. This information  
21 is shown on pages 27 through 32 of my exhibit.  
22  
23  
24  
25

- 1 Q. Would you elaborate on the analysis used in the  
2 determination of the ranges?  
3
- 4 A. The net heat rate vs. net output factor curves are the results  
5 of a first order curve fit to historical data. The standard  
6 error of the estimate of this data was determined, and a factor  
7 was applied to produce a band of potential improvement and  
8 degradation. Both the curve fit and the standard error of the  
9 estimate were performed by computer program for each unit. These  
10 curves are also used in post period adjustments to actual heat  
11 rates to account for unanticipated changes in unit dispatch.  
12
- 13 Q. Can you summarize your heat rate projection for the 1999  
14 period?  
15
- 16 A. Yes. The heat rate target for Big Bend Unit 1 is 10,230  
17 Btu/Net kwh. The range about this value, to allow for  
18 potential improvement or degradation, is  $\pm 353$  Btu/Net kwh.  
19 The heat rate target for Big Bend Unit 2 is 10,247 Btu/Net  
20 kwh with a range of  $\pm 363$  Btu/Net kwh. The heat rate target  
21 for Big Bend Unit 3 is 9,992 Btu/Net kwh, with a range of  
22  $\pm 387$  Btu/Net kwh. The heat rate target for Big Bend Unit  
23 4 is 9,938 Btu/Net kwh with a range of  $\pm 243$  Btu/Net kwh.  
24 The heat rate target for Gannon Unit 5 is 10,150 Btu/Net  
25 kwh with a range of  $\pm 519$  Btu/Net kwh. The heat rate target



1 for Gannon Unit 6 is 10,401 Btu/Net kwh with a range of  
2 ±380 Btu/Net kwh. A zone of tolerance of ±75 Btu/Net kwh  
3 is included within the range for each target. This is  
4 shown on page 4, and pages 7 through 12 of my exhibit.

5

6 Q. Do you feel that the heat rate targets and ranges in your  
7 projection meet the criteria of the GPIF and the philosophy  
8 of this Commission?

9

10 A. Yes I do.

11

12 Q. After determining the target values and ranges for average  
13 net operating heat rate and equivalent availability, what  
14 is the next step in the GPIF?

15

16 A. The next step is to calculate the savings and weighting  
17 factor to be used for both average net operating heat rate  
18 and equivalent availability. This is shown on pages 7  
19 through 12. Our PROMOD IV cost simulation model was used  
20 to calculate the total system fuel cost if all units  
21 operated at target heat rate and target availability for  
22 the period. This total system fuel cost of \$366,186,700 is  
23 shown on page 6 column 2.

24

25 The PROMOD IV output was then used to calculate total

1 system fuel cost with each unit individually operating at  
2 maximum improvement in equivalent availability and each  
3 station operating at maximum improvement in average net  
4 operating heat rate. The respective savings are shown on  
5 page 6 column 4. After all the individual savings are  
6 calculated, column 4 is totaled: \$13,646,800 reflects the  
7 savings if all units operated at maximum improvement. A  
8 weighting factor for each parameter is then calculated by  
9 dividing individual savings by the total. For Big Bend  
10 Unit Two, the weighting factor for equivalent availability  
11 is 6.40% as shown in the right hand column on page 6.  
12 Pages 7 thru 12 show the point table, the Fuel  
13 Savings/(Loss), and the equivalent availability or heat  
14 rate value. The individual weighting factor is also shown.  
15 For example, on Big Bend Unit Two, page 10, if the unit  
16 operates at 85.2% equivalent availability, fuel savings  
17 would equal \$873,400 and 10 equivalent availability points  
18 would be awarded.

19  
20 The Generating Performance Incentive Factor Reward/Penalty  
21 Table on page 2 is a summary of the tables on pages 7  
22 through 12. The left hand column of this document shows  
23 the incentive points for Tampa Electric Company. The  
24 center column shows the total fuel savings and is the same  
25 amount as shown on page 6, column 4, \$13,646,800. The

1 right hand column of page 2 is the estimated reward or  
2 penalty based upon performance.

3  
4 Q. How were the maximum allowed incentive dollars determined?

5  
6 A. Referring to my exhibit on page 3, line 14, the estimated  
7 average common equity for the period January 1999 -  
8 December 1999 is shown to be \$1,237,459,154. This produces  
9 the maximum allowed jurisdictional incentive dollars of  
10 \$4,959,159 shown on line 21.

11  
12 Q. Is there any other constraint set forth by this Commission  
13 regarding the magnitude of incentive dollars?

14  
15 A. Yes. Incentive dollars are not to exceed fifty percent of  
16 fuel savings. Page 2 of my exhibit demonstrates that this  
17 constraint is met.

18  
19 Q. Do you wish to summarize your testimony on the GPIF?

20  
21 A. Yes. To the best of my knowledge and understanding, Tampa  
22 Electric Company has fully complied with the Commission's  
23 directions, philosophy, and methodology in our  
24 determination of Generating Performance Incentive Factor.  
25 The GPIF for Tampa Electric Company is expressed by the

1 following formula for calculating Generating Performance  
2 Incentive Points (GPIP):

$$\begin{aligned}
 \text{GPIP} = & ( 0.0454 \text{ EAP}_{\text{GN5}} + 0.0683 \text{ EAP}_{\text{GN6}} \\
 & + 0.0719 \text{ EAP}_{\text{BB1}} + 0.0640 \text{ EAP}_{\text{BB2}} \\
 & + 0.0829 \text{ EAP}_{\text{BB3}} + 0.0432 \text{ EAP}_{\text{BB4}} \\
 & + 0.0884 \text{ HRP}_{\text{GN5}} + 0.0979 \text{ HRP}_{\text{GN6}} \\
 & + 0.1068 \text{ HRP}_{\text{BB1}} + 0.1112 \text{ HRP}_{\text{BB2}} \\
 & + 0.1222 \text{ HRP}_{\text{BB3}} + 0.0978 \text{ HRP}_{\text{BB4}}
 \end{aligned}$$

3  
4  
5  
6  
7  
8  
9  
10 Where:

11 GPIP = Generating performance incentive points.

12 EAP = Equivalent availability points awarded/deducted for  
13 Units 5 and 6 at Gannon and Units 1, 2, 3 and 4 at  
14 Big Bend.

15 HRP = Average net heat rate points awarded/deducted for  
16 Units 5 and 6 at Gannon and Units 1, 2, 3 and 4 at  
17 Big Bend.

18  
19 Q. Have you prepared a document summarizing the GPIF targets  
20 for the January 1999 - December 1999 period?

21  
22 A. Yes. The availability and heat rate targets for each unit  
23 are listed on attachment "A" to this testimony entitled  
24 "Tampa Electric Company GPIF Targets, January 1, 1999  
25 - December 31, 1999".

1 Q. Do you wish to sponsor an exhibit consisting of estimated  
2 unit performance data supporting the fuel adjustment?

3  
4 A. Yes I do. (Have identified as Exhibit GAK-3).

5  
6 Q. Briefly describe this exhibit.

7  
8 A. This exhibit consists of 23 pages. This data is Tampa Electric  
9 Company's estimate of the Unit Performance Data and Unit Outage  
10 Data for the January 1999 - December 1999 period.

11  
12 Q. Does this conclude your testimony?

13  
14 A. Yes.

15

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

PREPARED DIRECT TESTIMONY

OF

ROD BURKHARDT

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Q. Please state your name, address and occupation.

A. My name is Rod Burkhardt. My mailing address is P.O. Box 111, Tampa, Florida 33601, and my business address is 6944 U.S. Highway 41 North ,Apollo Beach, Florida 33572. I am Manager, Fuels in the Energy Supply Department of Tampa Electric Company.

Q. Mr. Burkhardt, please furnish a brief outline of your educational background and business experience.

A. I graduated from the University Florida in July, 1977 with a Bachelor of Science degree in Chemistry. I began my career with Tampa Electric Company in July 1977 as a chemist in the Production Department. Between 1977 and 1986, I held various technical and supervisory positions in the Central Testing Lab. In 1986, I became Supervisor-Budgets for Tampa Electric Company and in 1990 assumed the position of Manager-Central Testing Lab. In 1994 I joined the Fuels Department as Manager-Transportation and Planning

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1 and was named to my current position as Manager, Fuels in  
2 1995.

3

4 Q. Will you describe some of the responsibilities of your  
5 present position?

6

7 A. As Manager, Fuels, I am responsible for the planning,  
8 procurement, delivery, inventory control, and price  
9 forecasting of the company's fuel requirements.

10

11

12 Q. Please state the purpose of your testimony.

13

14 A. The purpose of my testimony is to report to the Commission  
15 the actual 1997 costs of Tampa Electric's affiliated coal  
16 and coal transportation transactions compared to the  
17 benchmark prices calculated in accordance with Order No.  
18 20298 (coal transportation) and Order No. PSC-93-0443-FOF-  
19 EI ("Order No. 93-0443") (coal). I conclude that the 1997  
20 prices paid by Tampa Electric to its affiliates TECO  
21 Transport and Trade and Gatliff Coal are reasonable and  
22 prudent.

23

24 Q. Have you prepared an exhibit which you sponsor in this  
25 proceeding?

1 A. Yes. Exhibit No. (RB-1) titled "Exhibit of Rod Burkhardt",  
2 consisting of 2 documents, was prepared under my direction  
3 and supervision.

4

5 AFFILIATED COAL AND COAL TRANSPORTATION PRICES

6

7 Q. Were Tampa Electric's actual affiliated coal transportation  
8 prices for 1997 at or below the transportation benchmark?

9

10 A. Yes, they were. This is reflected in Document No. 1 of my  
11 exhibit.

12

13 Q. Were Tampa Electric's actual 1997 affiliated coal prices at  
14 or below the benchmark as established in Order No. 93-0443?

15

16 A. Yes, they were. This is reflected in Document No. 2 of my  
17 exhibit.

18

19 Q. Please summarize your testimony.

20

21 A. My testimony justifies the prices paid for coal and coal  
22 transportation by Tampa Electric Company in 1997 to its  
23 affiliated suppliers, Gatliff Coal and TECO Transport. I  
24 demonstrate that the average prices for the year 1997 for  
25 all coal and coal waterborne transportation services were



1 at or below the appropriate benchmark calculations as  
2 directed by Order No. 20298 and Order No. 93-0443 of this  
3 Commission. Therefore, Tampa Electric should recover its  
4 payments for coal and coal transportation made during 1997.

5

6 Q. Does this conclude your testimony?

7

8 A. Yes, it does.

9

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1                   **COMMISSIONER CLARK:** And Staff recommends  
2 that the issues in the 001 docket, the stipulated  
3 issues, be approved?

4                   **MS. PAUGH:** We do.

5                   **COMMISSIONER CLARK:** Is there a motion?

6                   **COMMISSIONER GARCIA:** I move that.

7                   **COMMISSIONER JACOBS:** I second.

8                   **COMMISSIONER CLARK:** Without objection, the  
9 issues as stipulated in Docket 980001 will be  
10 approved.

11                   (Whereupon other dockets were discussed.)

12   \* \* \* \* \*

13                   **COMMISSIONER CLARK:** Anything further to  
14 come before the Commission?

15                   **MR. McWHIRTER:** I'd like to make a statement  
16 for the record, if I may.

17                   **COMMISSIONER CLARK:** Yes, Mr. McWhirter.

18                   **MR. McWHIRTER:** This is the first proceeding  
19 in which the Commission has moved from semiannual to  
20 annual proceeding. And when you first considered this  
21 prospect, our firm expressed some serious concern  
22 about judicial due process because of the limited  
23 period of time in which massive amounts of information  
24 would have to be analyzed and dealt with.

25                   The collections that you're approving today

1 are for prospective periods that will be tried up.  
2 The due process issue comes out like this: We first  
3 saw the testimony and exhibits filed by 12 separate  
4 utilities the first week in October. It entails  
5 analyzing that information; not only the information  
6 that is contained in the filings, but also the  
7 information that may have been omitted from the  
8 filings.

9           To understand that, to deal with it  
10 effectively it requires expert participation.  
11 Utilities have numerous experts that are presenting  
12 their testimony. Consumer advocates have to locate  
13 and employ an expert. The expert has to have time to  
14 consider what's in the record and what has been  
15 omitted from the record. And then under your  
16 discovery rules, if we pose requests for production  
17 and interrogatories, the utilities have 30 days in  
18 which to respond.

19           I would suggest to you humbly that in order  
20 to do any even piecemeal analysis in order to  
21 determine what the real issues in the case are, it  
22 would take 30 days or so. That puts us in the first  
23 week of November, and when you have the hearings the  
24 third week of November immediately before the  
25 Thanksgiving holidays, I would suggest to you that we

1 can't be expected to do a reasonable case in order to  
2 present meaningful facts to you in a meaningful way.

3 I don't suggest that the Commission was  
4 wrong in moving to an annual proceeding. I think  
5 probably it's appropriate at this time because of the  
6 fact that prices are not nearly so volatile as they  
7 were when these cost recovery proceedings were  
8 instituted initially.

9 But what I would also suggest to you is that  
10 since these rates are prospective and since we've got  
11 a year to live with them, that the Commission give a  
12 friendly eye to discovery that has -- may be filed  
13 subsequent to today's proceeding in which we may wish  
14 to plumb certain transactions such as affiliated  
15 transactions in which a utility buys product from its  
16 sister companies.

17 As you know, much of the information that's  
18 filed in these cases is under the umbrella of secrecy  
19 because they're fearful in a competitive environment  
20 the utilities' information will be misused, and as a  
21 consequence, we don't have the information there.

22 So we would like to have you give us your  
23 pledge, if you would, that when we come in during the  
24 course of this year to maybe further investigate some  
25 of these circumstances and explore them, that the

1 Commission not take the attitude that the decision was  
2 made today, it is now chiseled in stone, and it's too  
3 late to engage discovery.

4           **MR. WILLIS:** Before you go do something that  
5 is just thrown here on the table at the last minute, I  
6 think that you should -- if any such action is taken  
7 by Mr. McWhirter, you should take it into account  
8 after responses have been filed by the companies that  
9 are involved and to take a reasoned decision rather  
10 than giving -- making statements off the cuff here in  
11 response to something that has just been presented  
12 here for the first time.

13           I think that with respect to the procedures  
14 followed here that the planned workshops at the  
15 beginning of next year to further discuss how we can  
16 make the procedures more meaningful and easy for all  
17 concerned -- and that is one of the things that  
18 Mr. McWhirter could discuss at that time and can be  
19 resolved later by the Commission if no agreement is  
20 made among the parties after full discussion.

21           **COMMISSIONER CLARK:** Well, Mr. McWhirter, it  
22 appears as if we still haven't determined exactly what  
23 our procedures are going to be going to a yearly  
24 activity. And as I understand what Mr. Willis just  
25 said, we'll be having a workshop on how we should

1 proceed in these cases; is that correct, Staff?

2 MS. PAUGH: That's correct. Those were  
3 Issues 7 and 7A, as I recall.

4 COMMISSIONER CLARK: It sounds like we're  
5 going to be looking at it.

6 MR. McWHIRTER: Well, I think -- I certainly  
7 welcome the opportunity to participate in a workshop  
8 that's designed to make the procedure more meaningful.  
9 But I'm not talking about procedural matters, I'm  
10 talking about substantive matters; and all I suggest  
11 to you is if we are -- when we seek discovery on  
12 substantive issues that were dealt with in this case,  
13 that the Commission determine now that it will not  
14 summarily dismiss our opportunity to inquire further,  
15 since this is an open docket.

16 COMMISSIONER CLARK: I don't think that's a  
17 decision we have to make now. I was going to say,  
18 well, who is the prehearing officer, but I seem to  
19 recall it's me. (Laughter)

20 It seems to me that if and when you make  
21 that request, it would be appropriate to hear our  
22 arguments on the pros and cons of doing that, and I  
23 can tell you if it comes before the prehearing  
24 officer -- I don't know if it will be me -- I'll have  
25 an open mind.

1 I think we're embarking on a different  
2 strategy for these things, and I think we were  
3 concerned at the time about the notion of giving  
4 enough time to review information and prepare for  
5 hearing. So we'll take it up at the time you feel the  
6 need to exercise that.

7 MR. McWHIRTER: Well, I understand from what  
8 you've said that your previous prehearing order does  
9 not preempt continuing discovery in this matter.

10 MR. WILLIS: I don't think she made any such  
11 decision. That's not before her.

12 COMMISSIONER CLARK: Mr. McWhirter, I'm not  
13 prepared to say yea or nay on that.

14 COMMISSIONER JACOBS: It's an open docket.  
15 That's about it.

16 MS. PAUGH: These are open ongoing dockets  
17 at all times. Discovery can be had at all times. We  
18 close the docket down from one year, and at the same  
19 time open up the next one. So there is no reason why  
20 you can't commence discovery in this docket tomorrow  
21 if you so desire.

22 MR. McWHIRTER: Thank you very much.

23 COMMISSIONER CLARK: Okay. Anything else we  
24 have to take up at this time?

25 MS. PAUGH: Not from Staff.

1                   **COMMISSIONER CLARK:** Well, thank you all for  
2 your hard work on this case. And I wish you all a  
3 happy Thanksgiving.

4                   (Thereupon, the hearing concluded  
5 at 11:30 a.m.)

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1 STATE OF FLORIDA)  
: CERTIFICATE OF REPORTER  
2 COUNTY OF LEON )

3 I, H. RUTHE POTAMI, CSR, RPR, Official  
4 Commission Reporter,

5 DO HEREBY CERTIFY that the Hearing in Docket  
6 No. 980001-EI was heard by the Florida Public Service  
7 Commission at the time and place herein stated; it is  
8 further

9 CERTIFIED that I stenographically reported  
10 the said proceedings; that the same has been  
11 transcribed under my direct supervision; and that this  
12 transcript, consisting of 206 pages, constitutes a  
13 true transcription of my notes of said proceedings and  
14 the insertion of the prescribed prefilled testimony  
15 of the witnesses.

16 DATED this 30th day of November, 1998.

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H. RUTHE POTAMI, CSR, RPR  
Official Commission Reporter  
(904) 413-6734