

BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

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In the Matter of  
Petition by Tampa Electric  
Company for Approval of Cost  
Recovery for a New Environmental  
Program, the Big Bend Units 1 & 2  
Flue Gas Desulfurization System.  
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DOCKET NO. 980693-EI



VOLUME 2

Pages 112 through 330

**PROCEEDINGS: HEARING**

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

**DATE:** Wednesday, September 2, 1998

**TIME:** Commenced at 9:40 a.m.  
Concluded at 5:25 p.m.

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

**REPORTED BY:** JOY KELLY  
Chief, Bureau of Reporting  
H. RUTHE POTAMI, CSR, RPR  
Official Commission Reporter

**APPEARANCES:**  
  
(As heretofore noted.)

DOCUMENT IDENTIFICATION DATE

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

(Hearing reconvened at 12:40 p.m.)

(Transcript follows in sequence from  
Volume 1.)

**CHAIRMAN JOHNSON:** We're going to go back on  
the record. Ms. Kamaras, we're ready.

- - - - -

**CHARLES R. BLACK**

continues his testimony under oath from Volume 1:

**CROSS EXAMINATION**

**BY MS. KAMARAS:**

**Q** Good afternoon, Mr. Black. Since  
Mr. McWhirter and Mr. Howe have asked you most of the  
environmentalist questions today already, my questions  
are a little bit more limited than they were.

I have a couple of follow-up questions from  
some things you said earlier this morning about the  
number of allowances that Tampa Electric plans to  
purchase in the May 1998 compliance report that's  
attached to Mr. Hernandez's testimony on Bates stamp  
Page 118 and Bates stamp Page 136.

118 says with Big Bend 1 and 2 stand-alone  
scrubber, assumes up to 20,000 allowance purchases  
each year. Page 136 has an optimization of allowance  
purchases that looks like it starts at zero with the



1 Big Bend 1 and 2, and I wonder if you could speak to  
2 that apparent discrepancy or if I should ask  
3 Mr. Hernandez that question.

4 A Let me take a shot, and you can follow up  
5 with Mr. Hernandez if we need to.

6 The 20 to 25,000 allowances that I spoke  
7 about this morning was the value that we used as the  
8 maximum amount in our planning studies. We capped the  
9 amount at 20 to 25,000. In any given year, depending  
10 on the availability of the generating equipment, the  
11 load we have to meet, how well the equipment operates,  
12 we may or may not utilize any of those purchases; but  
13 for planning purposes, we arrived at a value of 20 to  
14 25,000.

15 If the scrubber performs consistent with our  
16 expectation in the year 2000, that would be a very low  
17 number.

18 Q Was the potential cost of up to 25,000  
19 allowances accounted for in determining the cost of  
20 the scrubber project?

21 A I believe that the cost associated with the  
22 allowances was included in the cost-effectiveness  
23 studies, but Mr. Hernandez could better speak to that.

24 Q Okay. We talked a little bit this morning  
25 about nitrogen oxide compliance. Will the

1 installation and use of the scrubber increase nitrogen  
2 oxide emissions?

3 A The scrubber in and of itself, to my  
4 knowledge, doesn't have any direct impact on NOx  
5 emissions one way or the other.

6 Q You also mentioned this morning in your  
7 testimony that Powder River Basin coal could not be  
8 used for -- you said five units. Are those the Gannon  
9 units?

10 A Gannons 5 and 6, Big Bend 1, 2 and 3.

11 Q So the Powder River Basin coal is also not a  
12 coal that can be used at Big Bend?

13 A That's correct.

14 Q Tampa Electric's May 1998 compliance report  
15 attached to Mr. Hernandez's testimony refers to design  
16 coals as coal types that best fit the operating  
17 characteristics of a particular unit. Does TECO  
18 typically purchase design coals for its various units?

19 A The design coal refers to the specification  
20 of the fuel for which the boilers were designed to  
21 burn at the time the units went in service. Typically  
22 they burn their design fuel.

23 As environmental regulations changed through  
24 time, we have modified the specification for the fuel,  
25 so that we have many boilers now that are burning fuel

1 that is different from that that they were designed to  
2 burn.

3 Q And does that require on-site blending of  
4 different coals?

5 A In some cases, yes, it does.

6 Q Is there a cost associated with on-site coal  
7 blending?

8 A We have the ability to blend fuel at Big  
9 Bend. We have a coal blending system that was  
10 installed coincident with the time that Big Bend 4  
11 went into service in 1985. At Gannon we really have  
12 no good means of blending fuel on site.

13 Q Well, will the addition of the scrubber to  
14 Big Bend 1 & 2 affect the type of coal that's used in  
15 those two units?

16 A Yes, ma'am.

17 Q And how will that be changed?

18 A The fuel that we would operate or use in Big  
19 Bend 1 & 2 after the scrubber is in service would be a  
20 higher sulfur western Kentucky fuel more consistent  
21 with the parameters that the boilers were designed to  
22 burn, as opposed to the blends of lower sulfur fuel  
23 that we're currently using for our Phase 1 compliance.

24 Q Are Big Bend 1 & 2 and Big Bend 3 and 4  
25 anticipated to use the same types of coal once the

1 scrubber is installed?

2           A     Big Bend 1 & 2, their fuel source would be a  
3 western Kentucky higher sulfur fuel. Big Bend 3 fuel  
4 source would be consistent with that. The design of  
5 the Big Bend 4 boiler is such that it requires a  
6 different fuel, and it typically burns a medium sulfur  
7 Illinois 6 type fuel.

8           Q     Is the coal now used at Big Bend 1 & 2 best  
9 described as low, medium or high sulfur coal?

10          A     I would describe it as medium.

11          Q     And is the same true for Gannon?

12          A     We burn coals of varying sulfur content at  
13 Gannon and manage that to stay within our compliance  
14 option. We range from, I would say, on the high side  
15 of a medium sulfur fuel to the low side of medium, but  
16 they would all be medium.

17          Q     And what type of coal would you burn or are  
18 you burning or using at Polk; low, medium or high  
19 sulfur coal?

20          A     At what location, ma'am?

21          Q     The Polk unit.

22          A     The initial operation at Polk was done on a  
23 Pittsburgh No. 8 coal, which is a medium sulfur, high  
24 Btu fuel. The current fuel source for Polk is an  
25 Ohio No, 11 seam coal that's somewhat higher in sulfur

1 level and a little bit lower in Btu.

2 Q In your testimony on Page 13, Lines 7  
3 through 18, you discuss the efficiency and  
4 availability of the FGD units. There's a table  
5 N. 2-3 of the May 1998 report that's Page Bates stamp  
6 119 of Mr. Hernandez's testimony exhibits that shows a  
7 capacity deration of approximately 14 megawatts on  
8 Big Bend 1 & 2.

9 What is the basis for the conclusion of that  
10 number of megawatts as a degradation?

11 A Could you give me those references again,  
12 and let me take a look at the document?

13 Q Yes. It's Page 119, Bates stamp 119 of the  
14 exhibits attached to Mr. Hernandez's testimony. It's  
15 Page 18 of 43 in the upper right.

16 A Let me check. (Pause) The decrease in unit  
17 capacity of 14 megawatts is associated with the  
18 additional power required to operate the scrubber and  
19 the wastewater treatment facility at Big Bend.

20 Q Thank you. In one of the production of  
21 document requests responses -- perhaps the best thing  
22 for me to do would be to just show it to you.

23 (Handing document to witness.)

24 This is described as notes of a meeting  
25 January 14th, 1997, Clean Air Act SO2 Compliance

1 Strategies, and it appears to be a Tampa Electric  
2 memo. On the back page -- this is double-sided  
3 copy -- it talks about Big Bend integration, and  
4 there's a statement there about burning higher sulfur  
5 coal than traditional as part of a test burn of  
6 integrating Big Bend 2 into Big Bend 3 & 4.

7 It states that the result was a greater  
8 strain on the system to attain sulfur removal  
9 efficiency, and that efficiency was reduced by  
10 approximately 6%.

11 I'm wondering if TECO's plan to burn high  
12 sulfur coal at Big Bend 1 and 2 would have a similar  
13 result and, if not, why not?

14 A The activity that's referred to in this  
15 paragraph is an investigation that we performed to  
16 assess the viability of actually integrating Unit 2  
17 into the Big Bend 4 scrubber just as we had integrated  
18 Unit 3.

19 We performed some tests and identified some  
20 technical issues associated with integrating Unit 2  
21 into that existing system, and as such, decided that  
22 that was not technically something that we felt was  
23 feasible and wanted to maintain, partly because of the  
24 reasons cited in this memo.

25 Big Bend 1 & 2 scrubber is being designed

1 from scratch to accommodate the full load, full  
2 efficiency situations that are required, and we've  
3 received guarantees from the vendor to assure both  
4 removal efficiency and availability.

5 Q In your direct testimony at Page 8, I  
6 believe you stated that Tampa Electric used the 1998  
7 fuel price forecast from the 10-year Site Plan for its  
8 analysis; is that correct?

9 A Yes, ma'am.

10 Q I'm going to show you what is a portion of  
11 the Tampa Electric 10-year Site Plan information.  
12 (Handing document to witness.)

13 The information I've handed you are portions  
14 of the Tampa Electric Company supplemental data  
15 request, review of 10-Year Site Plan, Item 1, and it's  
16 several pages of 42 pages, which includes oil and  
17 natural gas price forecasts and coal price forecasts.

18 Are these forecasts consistent with Tampa  
19 Electric's historical experience regarding coal, oil,  
20 and natural gas pricing?

21 A These are consistent with the forecasting  
22 methodology that Tampa Electric has historically used.

23 Q Are the prices themselves consistent with  
24 your forecasts?

25 A I'm sorry. Could you repeat that?

1           **Q**     Are the prices themselves consistent with  
2 your historical experience?

3           **A**     The prices of the fuel is generally  
4 consistent. There are actual cases where --  
5 particularly on coal prices, that we are either  
6 experiencing higher or lower prices than predicted by  
7 our forecast.

8                   On our gas forecast, recent experience has  
9 indicated that the actual -- during periods of time  
10 last year some of the actual costs were higher than  
11 our forecasts. Gas prices are depressed right now,  
12 and they're below our forecast.

13                   So in a general sense, I would say that our  
14 forecast is generally consistent with what we've  
15 experienced, but that doesn't mean that it predicts it  
16 absolutely.

17                   **MS. KAMARAS:** Thank you. I now have a  
18 document that I'm going to ask to be identified just  
19 for purposes of identification. (Handing document to  
20 witness.)

21                   **CHAIRMAN JOHNSON:** It will be identified as  
22 Exhibit 3, short titled, "Summary of FERC Form 1 fuel  
23 Costs."

24                   (Exhibit 3 marked for identification.)

25           **Q**     **(By Ms. Kamaras)** The first page is a



1 summary of the attached information, which is  
2 information from the FERC Form 1 filings of Florida  
3 Power & Light, Florida Power Corp, Gulf Power Company,  
4 and Tampa Electric Company. And Mr. Howe has pointed  
5 out that under "Cost of Coal in Tons for FPL," the  
6 number "4", that first number, should be a dollar  
7 sign, not a four. I do my own typing.

8 **MR. LONG:** Madam Chairman, could I ask a  
9 couple clarifying questions? There appears to be a  
10 summary at the beginning of this information. I'd  
11 like to know the source of that, who prepared that  
12 summary, and I guess my second question has to do with  
13 the content. Is this Tampa Electric specific  
14 information?

15 **CHAIRMAN JOHNSON:** Ms. Kamaras?

16 **MS. KAMARAS:** The summary is information  
17 that is taken directly from the attached forms. The  
18 attached forms are formal filings by the Florida  
19 electric utilities with the Federal Energy Regulatory  
20 Commission for the year 1997. And I prepared the  
21 summary so that it would not be necessary to go  
22 through every page of each and every one of these  
23 forms.

24 **MR. LONG:** Well, Madam Chairman, without an  
25 opportunity to go through and check the ultimate

1 conclusions that are on the summary, it seems to me  
2 that the evidentiary value of this is questionable.

3 The underlying documents filed with the FERC  
4 I think can speak for themselves. If there are  
5 questions concerning those documents, if the witness  
6 can answer, we have no objection to counsel posing  
7 those questions.

8 **CHAIRMAN JOHNSON:** Ms. Kamaras?

9 **MS. KAMARAS:** The FERC documents can speak  
10 for themselves. I can only verify that the numbers  
11 that appear in the summary are directly taken from the  
12 attached sheets, and I did it purely as a matter of  
13 convenience and for no other purpose.

14 **COMMISSIONER DEASON:** It seems to me the  
15 questions can be asked in terms of assuming these  
16 numbers are correct, and if in further verification  
17 they're incorrect, well, then that can be provided  
18 with a late-filed exhibit or something. But we need  
19 to get on with this proceeding. There's a hurricane  
20 coming. Okay?

21 **Q (By Ms. Kamaras)** If you wish to just  
22 assume for the sake of argument that the summary  
23 numbers do accurately reflect what's in the report,  
24 with the exception of another possible typographical  
25 error, I simply wanted to ask you whether or not you

1 believe Tampa Electric's fuel price forecasts, both  
2 for coal and for gas, are consistent with the  
3 information that Tampa Electric reported to FERC.

4 A I'm sorry. Could you repeat that, please?

5 Q Is your fuel price forecast consistent with  
6 the data on coal pricing that Tampa Electric reported  
7 to the FERC?

8 A The year that the FERC Form 1 data  
9 represents is 1997.

10 Q 1997.

11 A The forecast information that you provided  
12 me starts in 1998, so I can't make any direct  
13 comparison between what our forecast might have been  
14 in 1997 for those actual costs in 1997.

15 The forecasted coal prices in the document  
16 that you provided me are somewhat lower than our  
17 actual fuel experience as reported on your summary  
18 would indicate.

19 Q Okay. Thank you.

20 COMMISSIONER CLARK: Mr. Black, are these  
21 delivered prices? Do you know?

22 WITNESS BLACK: I don't know. I'm not sure.

23 MS. KAMARAS: Are you talking about the FERC  
24 Form 1 prices? Yes, I believe they are.

25 COMMISSIONER CLARK: Okay.

1           **MS. KAMARAS:** Line 39 of the form says  
2 "Average cost of fuel per unit as delivered f.o.b.  
3 plant during the year."

4           **COMMISSIONER CLARK:** Thank you.

5           **MS. KAMARAS:** I have another document here  
6 that I'm going to ask to be numbered for purposes of  
7 identification, and this is some portions of 10-year  
8 Site Plans from Florida Power Corporation and Lakeland  
9 Electric Utility.

10          **CHAIRMAN JOHNSON:** Mr. Howe can pass those  
11 out, and I'll allow you to continue.

12                   I'll identify it as Exhibit 4. What's the  
13 short title for that?

14          **MS. KAMARAS:** "Florida Power Corp and  
15 Lakeland documents."

16          **CHAIRMAN JOHNSON:** Florida Power Corp and  
17 Lakeland?

18          **MS. KAMARAS:** Yes.

19          **CHAIRMAN JOHNSON:** Okay.

20                   (Exhibit 4 marked for identification.)

21           **Q**       **(By Ms. Kamaras)** These are the fuel price  
22 forecasts for coal, oil, and gas for those two  
23 utilities, and I would ask you, Mr. Black, to review  
24 those and tell me whether you believe the Tampa  
25 Electric fuel price forecast is reasonably consistent

1 with those of these other two utilities and, if not,  
2 why Tampa Electric's would be different.

3 A Just looking through these documents, it's  
4 difficult to come to a complete understanding, since  
5 I've never seen these documents before and don't  
6 exactly understand where the numbers came from.

7 But I think in looking at coal prices, it's  
8 important not only to categorize the sulfur content,  
9 but also the other parameters of the particular fuel.  
10 As I mentioned earlier, five of our boilers are of a  
11 unique design that requires fuel that's more  
12 specialized than some other utilities can utilize.

13 So without really knowing what the actual  
14 composition of the fuel that these prices represent,  
15 I'm not really able to draw any conclusions between  
16 their forecast of fuel and ours.

17 Q Thank you. You talked earlier about some of  
18 the obligations that Tampa Electric has to comply with  
19 the Clean Air Act besides its Phase II acid rain SO<sub>2</sub>  
20 compliance.

21 Has Tampa Electric made any estimate of the  
22 potential compliance costs for EPA nitrogen oxide  
23 and/or ozone rule changes?

24 I'm not talking about the statutory  
25 compliance required under the acid rain provisions,

1 but the ozone rule change that was made last year.

2 A The ozone -- are you speaking of the ambient  
3 air quality standard that was modified?

4 Q Yes.

5 A We are working with our local EPC. Part of  
6 our response to that was the memorandum of  
7 understanding that we entered into with Hillsborough  
8 County to reduce our nitrogen oxide emissions earlier  
9 than was required by the Clean Air Act amendment.

10 Again, nonattainment is on an area basis,  
11 and it's not a unit-specific kind of basis, and to the  
12 extent Hillsborough County becomes nonattainment for  
13 ozone, we will have to work with the local agencies to  
14 determine what the appropriate action is; but we've  
15 not had any indication as to what that might be.

16 Q Okay. What types of Clean Air Act  
17 compliance activities might Tampa Electric be required  
18 to take if the Tampa area is designated by EPA as  
19 nonattainment for ozone?

20 A Would typically include reductions in our  
21 nitrous oxide emission rates.

22 Q And what kind of activities would the  
23 company have to undertake to accomplish that in a  
24 nonattainment situation?

25 A Assuming that our compliance strategy for

1 meeting the Clean Air Act requirements for NOx is  
2 successful, that we can do that through the combustion  
3 modifications that I talked about earlier.

4 As I pointed out, additional NOx  
5 requirements would be accomplished through the  
6 addition of selective catalytic reduction equipment on  
7 our large coal-fired boilers. The number of those  
8 installations and the extent of the installation would  
9 depend on the particular situation with Hillsborough  
10 County.

11 With respect to nonattainment, since it is a  
12 county issue, it's not solely a Tampa Electric  
13 obligation to correct the problem. Other industries  
14 in the county also would be affected as well as motor  
15 vehicles, and the county would take broad action to  
16 deal with a nonattainment area, not solely target it  
17 at Tampa Electric.

18 Q Thank you. Has Tampa Electric made any  
19 estimate of potential compliance costs for complying  
20 with modifications of the EPA particulate PM 10 rules.  
21 Not PM 2.5. I believe there was also some  
22 modifications to the PM 10 rule.

23 A Let me check. (Pause) Hillsborough County  
24 currently is in attainment for PM 10, and so we're not  
25 currently exploring any modifications required there.



1           Q     Do you have a sense of what activities Tampa  
2 Electric would be required to undertake if the Tampa  
3 area became nonattainment for PM 10?

4           A     Again, there would be a wide response by  
5 all-industry, other than just Tampa Electric. PM 10  
6 typically is associated with precipitator performance  
7 and that sort of thing.

8                     We believe that the scrubber addition for  
9 Big Bend 1 & 2 provides us the maximum flexibility of  
10 any of the other options we evaluated to deal with  
11 more stringent PM requirements.

12                     Based on some testing that was done at Big  
13 Bend, we actually measured a significant decrease in  
14 particulate matter before it compared -- after the  
15 scrubber as compared to before the scrubber. So we  
16 believe that the scrubber is actually a positive  
17 benefit in that case, and beyond that, we would really  
18 need to see the magnitude of the actions that we would  
19 need to take.

20           Q     Is the scrubber expected to result in a  
21 change in carbon dioxide emissions from Big Bend?

22           A     Only to the extent that there's additional  
23 power requirements to operate the scrubber, the  
24 14-megawatt deration that we talked about earlier.  
25 From that aspect, the total generation at Big Bend



1 would be slightly greater. So the CO2 levels would be  
2 slightly increased, but it's a function of the load on  
3 the station not directly associated with the  
4 technology being involved.

5 Q I believe you said earlier you had some  
6 familiarity with the Big Bend 3 & 4 scrubber project.

7 A Yes, ma'am.

8 Q Is that correct? Do you know what the  
9 projected and actual capital costs of that scrubber  
10 project were?

11 A Which project?

12 Q The scrubber on Big Bend 3 & 4?

13 A The scrubber was installed with Unit 4.

14 Q Right.

15 A The initial installation costs, I don't  
16 recall an exact number, but I believe it was on the  
17 order of 150 to \$160,000,000.

18 The integration of Unit 3 into that existing  
19 scrubber, again I don't have the exact numbers, but  
20 it's on the order of 7 to \$8 million.

21 Q Do you know what the O&M costs, operating  
22 and maintenance costs, of that scrubber are?

23 A The Big Bend --

24 Q On Big Bend 4, or 3 and 4.

25 A Let me check. (Pause) I'm sorry. I don't

1 have that information with me. The O&M costs  
2 associated with the Unit 3 integration has been filed  
3 as part of our environmental cost recovery clause on a  
4 six-month basis and is available there. I don't have  
5 the Big Bend 4 numbers with me.

6 Q All right. Thank you. What is the average  
7 life of a coal plant boiler?

8 A I would expect that the boilers that we have  
9 built to our specifications and under our direction  
10 will last significantly beyond a 30-year period. An  
11 exact date is kind of hard to put your finger on.

12 Q Thank you.

13 CHAIRMAN JOHNSON: Ms. Kamaras, let me  
14 interrupt for just a second. We've gotten some  
15 indication that the State buildings may be closing  
16 down in the next couple hours; within the next two  
17 hours, in fact. I need to get a feel as to how much  
18 more you have for this witness.

19 MS. KAMARAS: About three minutes.

20 CHAIRMAN JOHNSON: And Staff?

21 MS. JAYE: Staff has about 30 questions for  
22 this witness.

23 CHAIRMAN JOHNSON: How much time do you  
24 think that will take?

25 MS. JAYE: Most of them are yes and no

1 answers. I would imagine we could probably get  
2 through it in maybe an hour.

3 **CHAIRMAN JOHNSON:** Okay. We're going to  
4 stipulate our -- well, we still have Mr. Hernandez.  
5 How much time is anticipated for Mr. Hernandez?

6 **MR. McWHIRTER:** I would contemplate 30  
7 minutes.

8 **CHAIRMAN JOHNSON:** Okay.

9 **MR. HOWE:** 30 minutes to an hour.

10 **MS. KAMARAS:** Probably 20 to 30 minutes.

11 **MS. JAYE:** Commissioners --

12 **CHAIRMAN JOHNSON:** Is that direct and  
13 rebuttal?

14 **MR. HOWE:** I understand that we're going to  
15 stipulate rebuttal.

16 **CHAIRMAN JOHNSON:** His rebuttal also?

17 **MR. HOWE:** What I mean is, I think his  
18 rebuttal is to FIPUG's witness.

19 **CHAIRMAN JOHNSON:** Oh. I got you. Yes.

20 **MS. JAYE:** Staff would anticipate maybe 30  
21 minutes for Mr. Hernandez. However, if the parties  
22 would agree to stipulate the depositions of  
23 Mr. Hernandez and Mr. Black into the record, that  
24 could save some time.

25 **MR. LONG:** Well, we would certainly be

1 willing to agree to that, the deposition and the  
2 deposition exhibits.

3 **MS. JAYE:** That would be wonderful.

4 **CHAIRMAN JOHNSON:** Well, at the appropriate  
5 time we'll try to take care of that, but there is a  
6 need to speed this up quite a bit if we intend to  
7 finish today; and we may not be open tomorrow, so we  
8 need to try to speed it up.

9 **MR. HOWE:** Is it scheduled for tomorrow?

10 **MS. JAYE:** The afternoon of the 11th.

11 (Inaudible simultaneous comments from  
12 speakers not at microphones.)

13 **CHAIRMAN JOHNSON:** Whenever that day is. So  
14 we have to finish. Go ahead, Ms. Kamaras.

15 **Q (By Ms. Kamaras)** Looking at the May 1998  
16 compliance report attached to Mr. Hernandez on Page  
17 118 -- I'm sorry -- Page 120, do you know where the  
18 savings from or cost of allowances is accounted for?

19 **A** I'm sorry. Could you repeat that, please?

20 **Q** Do you know where either the savings from or  
21 the cost of allowances is accounted for?

22 **A** You're on Page 120?

23 **Q** Yes, sir.

24 **A** Bates stamp 120?

25 **Q** Yes.

1           **A**     It's a table?

2           **Q**     Table 2-4.

3           **MR. LONG:** If I could clarify for the  
4 moment. The page that counsel is referring to is one  
5 that had some typos, and we filed a corrected version,  
6 which Mr. Hernandez will address. So just to keep  
7 that in mind.

8           **CHAIRMAN JOHNSON:** Okay.

9           **WITNESS BLACK:** The specific line item that  
10 speaks to allowances, I'm having trouble finding that  
11 one.

12          **Q**     **(By Ms. Kamaras)** Me too. That's why I  
13 asked the question.

14          **A**     Okay. Could you ask it again?

15          **Q**     Can you tell me where the savings from or  
16 cost of allowances is accounted for in preliminary  
17 screening cost assumptions analysis?

18          **A**     Mr. Hernandez can definitely speak to that.  
19 But my recollection is that the allowance assumptions  
20 for each of these various technologies was basically  
21 the same, and that you assume that they would scrub  
22 similar type fuel to similar efficiency levels, and  
23 that the amount of allowances that would be used in  
24 any of these scrubber options would be basically the  
25 same. So I don't know that there is any differential

1 cost or savings.

2 Q Thank you. That same report, if you would  
3 flip over to Pages 121 to 122, describes a purchase  
4 power option. Tampa Electric states that it used the  
5 1997 FRCC reliability assessment. Would the result  
6 change if the option analysis was based on the 1998  
7 FRCC study?

8 A I don't know.

9 Q Would Mr. Hernandez know?

10 A He would know more than I would.

11 Q Okay. Thank you.

12 MS. KAMARAS: That concludes my questions.  
13 Thank you very much, Mr. Black.

14 CHAIRMAN JOHNSON: Staff?

15 MS. JAYE: Staff has asked that the  
16 deposition of Mr. Black be stipulated on the record  
17 along with the late-filed deposition exhibits. That's  
18 the first order of business.

19 Staff is handing around right now a stack of  
20 seven different exhibits that we'd like to get marked  
21 for identification. These would be Exhibits 5  
22 through 11.

23 The first two documents on the top and on  
24 the bottom -- I'm sorry -- on the top, and then the  
25 one immediately behind that are a copy of Mr. Black's

1 deposition and his late-filed deposition exhibits; and  
2 if the parties are willing, we would like to have that  
3 stipulated into the record and entered as if read.

4 **CHAIRMAN JOHNSON:** Let me start off by  
5 identifying them separately, or perhaps these two  
6 together if you want these two to be a composite.

7 **MS. JAYE:** Yes. This would be Exhibit 5.

8 **CHAIRMAN JOHNSON:** And Exhibit 5 would  
9 consist of the --

10 **MS. JAYE:** The deposition and late-filed  
11 deposition exhibits of Mr. Black.

12 **CHAIRMAN JOHNSON:** "Mr. Black's depo and  
13 late-filed exhibits" will be the short title, and it  
14 will be marked as 5.

15 **MR. BEASLEY:** Madam Chairman, we had  
16 submitted one page of that late-filed exhibit under  
17 notice of intent to seek confidential classification.  
18 I'm assuming that would remain in the Division of  
19 Records and Reporting?

20 **MS. JAYE:** It is not included in the  
21 information.

22 **CHAIRMAN JOHNSON:** Okay. We'll have that  
23 one marked.

24 (Exhibit 5 marked for identification.)

25 **CHAIRMAN JOHNSON:** And the next one?

1           **MS. JAYE:** The next one would be Exhibit 6,  
2 and we have that titled "TECO's response to Staff's  
3 Second Set of Interrogatories, Nos. 26 and 27."

4           **CHAIRMAN JOHNSON:** TECO's response to  
5 Interrogatories 26 and 27 is marked as 6.

6           (Exhibit 6 marked for identification.)

7           **MS. JAYE:** No. 7 would be "September, 1997  
8 gypsum sale assumptions."

9           **CHAIRMAN JOHNSON:** That will be marked as 7  
10 and so identified.

11          (Exhibit 7 marked for identification.)

12          **MS. JAYE:** No. 8 Staff has titled "An  
13 internal review of the CAAA SO2 compliance strategies,  
14 dated January 14, 1997."

15          **CHAIRMAN JOHNSON:** It will be marked as 8  
16 and identified as "Internal review of CAAA SO2."

17          (Exhibit 8 marked for identification.)

18          **MS. JAYE:** Exhibit 9 Staff has titled "Tampa  
19 Electric Company Phase II CAAA compliance review,  
20 January 8, 1998."

21          **CHAIRMAN JOHNSON:** It will be marked as 9,  
22 and identified as "TECO Phase II CAAA compliance  
23 review."

24          (Exhibit 9 marked for identification.)

25          **MS. JAYE:** And Exhibit 10 Staff has titled



1 "Portions of TECO's response to Staff's first Request  
2 for Production of Documents No. 13.

3 CHAIRMAN JOHNSON: Marked 10 and identified  
4 as "Portions of TECO's response to Staff's First  
5 Interrogatory for Production of Document 13.

6 (Exhibit 10 marked for identification.)

7 Q (By Ms. Jaye) Mr. Black, if you could look  
8 at that first document from the stack and tell me what  
9 that is.

10 A The transcript of my deposition.

11 Q Do you have any changes you want to make to  
12 that deposition, or if I ask you those questions  
13 today, with would your answers be the same?

14 A Yes, ma'am, they would.

15 Q Mr. Black, I have a few questions to ask you  
16 about your deposition, and then I'd like to go ahead  
17 and move it into the record as if read. If you would  
18 refer to the transcript of your deposition at Page 30,  
19 Line 21 through Page 31, Line 20.

20 A Page 30, line what?

21 Q 21. It's through Page 31, Line 20. Staff  
22 gave you a hypothetical situation in which a so-called  
23 Project A referred to an alternative which reduces  
24 SO<sub>2</sub>, NO<sub>x</sub>, and particulate emissions, and so-called  
25 Projects B, C and D are each alternatives which reduce

1 SO2, NOx, and particulates respectively.

2 Compliance with Clean Air regulations  
3 encompasses reductions in SO2, NOx, and particulate  
4 emissions, correct?

5 A Yes.

6 Q In TECO's proposed project, the flue gas  
7 desulfurization, or FGD, system for Big Bend 1 and 2  
8 is a project that reduces an individual component, or  
9 SO2, of compliance with Clean Air regulations,  
10 correct?

11 A Yes.

12 Q If you would, please refer specifically to  
13 the section of the deposition transcript on Page 31,  
14 Lines 9 through 15. Could you explain what you meant  
15 by the phrase "issues associated with other  
16 components," on Lines 12 and 13?

17 A What I was attempting to convey was that it  
18 was appropriate to evaluate the individual project  
19 which reduced SO2, if the technologies associated with  
20 the reduction of the other components were totally  
21 independent of that SO2 reduction technology. That  
22 is, it would be appropriate to evaluate the SO2  
23 reduction technology if the technology and the options  
24 for reducing the other parameters were totally  
25 independent of what you did for SO2.

1           **Q**     In your opinion, if the FGD is the most  
2 cost-effective of the different options that have been  
3 explored by TECO, then TECO should proceed with or  
4 without the Commission's approval; is that correct?

5           **A**     We believe that the FGD system is the most  
6 cost-effective solution to the SO2 requirements for  
7 our Phase II compliance, and we believe it's  
8 appropriate, given the size of the investment, that we  
9 should get some indication from the Commission as to  
10 the appropriateness of the recovery of that cost.

11                   **COMMISSIONER CLARK:** I think what she was  
12 asking was sort of the same thing Mr. Howe was. Even  
13 if we didn't approve it, if it's your view it's the  
14 most cost-effective way to do it, isn't that what you  
15 should be doing.

16                   **WITNESS BLACK:** Yes, ma'am.

17           **Q**     **(By Ms. Jaye)** Now to clear up a few issues  
18 that remain from a lot of the questions that you have  
19 heard earlier in the day, SO2 emissions are capped on  
20 a total system basis, correct?

21           **A**     Yes.

22           **Q**     NOx emissions are capped on a system  
23 emission rate basis, correct?

24           **A**     As currently proposed -- my understanding  
25 is, as currently proposed by the EPA, the NOx emission

1 limits are on a per-unit basis, depending on the type  
2 of boilers that are involved. We are working with the  
3 EPA to establish a system rate criteria for our  
4 system.

5 Q Earlier today you stated that 83,882  
6 allowances applied to Big Bend Units 1, 2, 3, 4,  
7 Gannon Units 1 through 6, Hookers Point Units 1  
8 through 5, and Polk Unit 1.

9 What would happen to that number of  
10 allowances if future units were added to TECO's  
11 system?

12 A My understanding is that the total number of  
13 allowances does not change.

14 Q Could you tell me if the existing stack for  
15 Big Bend Units 1 and 2 is brick-lined?

16 A I believe it is, but I'm not sure.

17 Q Does flue gas exiting from a wet scrubber  
18 have any destructive effects on a brick-lined stack?

19 A Yes.

20 Q Could you describe those effects?

21 A It's a corrosive effect that attacks the  
22 mortar that holds the brick together, unless the stack  
23 is constructed with acid resistant brick, which is  
24 sometimes employed in units that have scrubbers. I  
25 don't believe that was the case with Big Bend 1 & 2.

1 Q If you would move to the third document in  
2 the stack. This has been marked as, I believe,  
3 Exhibit 6. Could you tell me if you sponsored this  
4 response?

5 A I believe this was in response to a document  
6 production request.

7 Q Yes.

8 A And I don't recall seeing this document  
9 before. (Pause)

10 Q It's been marked as Exhibit 6, the response  
11 to Staff's Second Set of Interrogatories Nos. 26  
12 and 27.

13 A I'm sorry. I'm looking at the wrong thing.  
14 (Pause) Yes, ma'am. I did sponsor this.

15 Q Okay. If you would look at the next  
16 document in the stack. I believe this one has been  
17 marked as Exhibit 7, the gypsum sale assumptions  
18 exhibit.

19 A Yes, ma'am.

20 Q Are the comments in the notes at the bottom  
21 of the page substantially true today?

22 A Yes, ma'am, I believe they are.

23 Q Okay. If you could look at the next  
24 exhibit. This one would be marked No. 8, an internal  
25 review of the CAAA SO2 compliance strategies, dated

1 January 14, 1997.

2 A Okay.

3 Q One of the attendees at the meeting that  
4 this memorializes was a man named Mr. Hugh Smith; is  
5 this correct?

6 A He's listed as an attendee, yes, ma'am.

7 Q In your current capacity with TECO, would it  
8 be appropriate to assume you are a likely candidate to  
9 typically attend meetings of this type and with these  
10 persons?

11 A It depends on the nature of the meeting, my  
12 schedule. I may or may not attend a meeting like  
13 this.

14 Q If you could, turn to the Bates stamped  
15 pages 04782 and 04783. These pages list nine items  
16 which have to do with assumptions and the issues of  
17 the study; is this correct?

18 A 04782 and 83?

19 Q Yes, sir.

20 A Yes, ma'am. These seem to be the  
21 assumptions used in the screening analysis.

22 Q If you would, please, review Item No. 7.  
23 It's titled "The Gannon FGD was a bare bones option.  
24 Has this philosophy been carried into the BB 1-2  
25 stand-alone?" That's the quote on the page.

1           A     This is Item 7.

2           Q     Yes. I was wondering what the answer to  
3 that question is that I just read that's contained in  
4 there.

5           A     Let me read the item, please.

6           Q     Okay.

7           A     (Pause) The Gannon FGD alternative that was  
8 evaluated was a common scrubber for several of the  
9 units at Gannon that was being designed to operate at  
10 a lower availability and removal efficiency. So I  
11 would say that the term that that unit is a bare bones  
12 kind of unit does not necessarily carry over into the  
13 design of Big Bend 1 & 2.

14                     We've specified for the Big Bend 1 & 2  
15 scrubber appropriate technical specifications which we  
16 believe will allow that scrubber to achieve both its  
17 efficiency and its availability, and we've backed  
18 those assumptions by contractual arrangements with the  
19 vendor which will provide liquidated damages to Tampa  
20 Electric to the extent that he does not meet those  
21 criteria.

22                     Further, with respect to the issues of the  
23 accuracy of the estimate and whether it's appropriate,  
24 as I reported earlier, the Stone, Webster estimate was  
25 the basis for part of the early work, but before

1 proceeding, we felt it was necessary to retain another  
2 independent evaluation of the capital costs, and that  
3 was done by Sergeant & Lundy.

4           So I think for the Big Bend 1 & 2 system  
5 these comments would not apply.

6           Q     Okay. Then if you could move on to the next  
7 document in the stack. This is the one that's marked  
8 Exhibit 9, Tampa Electric Phase II CAAA compliance  
9 review, January 8, 1998. Could you tell me if this  
10 document appears to be an updated verse of the one we  
11 just discussed?

12          A     No, ma'am. The one that we just discussed  
13 was with respect to the screening analysis. Once we  
14 performed that analysis and narrowed our options down,  
15 we took a more detailed look at the cost-effectiveness  
16 and the validity of all of those options; and that's  
17 what's represented in the second document.

18          Q     If you could in this Exhibit 9 document,  
19 please turn to the page that is Bates stamped 02579.

20          A     Yes, ma'am.

21          Q     Okay. There is one subsection listing  
22 Capital Expenses and another subsection listing O&M,  
23 or operation and maintenance expenses. Do you see  
24 those?

25          A     Yes, ma'am.



1           Q     In the prior review, which is the 1997  
2 review, TECO was looking at both increases and  
3 decreases to the base cost assumptions. However, here  
4 the only sensitivities are increases. Could you  
5 explain that?

6           A     At this point the FGD case had been  
7 identified as the most cost-effective alternative when  
8 compared to the other things that we were evaluating,  
9 primarily the fuel switch and allowance purchase  
10 option.

11                     We wanted to ensure through these  
12 sensitivities that if the cost of the scrubber option  
13 either on the capital side or the O&M side increased  
14 beyond what our current estimate was, that it was  
15 still a cost-effective option relative to these other  
16 options we had to comply.

17                     If we had lowered these costs, it would have  
18 only made it a more cost-effective option, and we  
19 didn't need to see that.

20           Q     Thank you. If you could turn, then, to the  
21 next paper on the stack. I believe this one has been  
22 marked as Exhibit 10, portions of TECO's response to  
23 Staff's First Request for Production of Documents,  
24 No. 13.

25                     Staff asked you some questions at deposition

1 regarding this POD, and I'd like to clarify some of  
2 the items, if I could. And this begins on Page 01965.

3 If TECO were to incur any SCR retrofit  
4 costs, are the costs listed here reasonable estimates  
5 of the level of those potential expenditures?

6 A We believe that they are. As I discussed  
7 earlier, the application of SCR would be the next  
8 level of NOx reduction we would move to if our  
9 classifier combustion modifications were not  
10 successful, and the \$20 million number that I quoted  
11 earlier relates fairly closely to the 21 million 054  
12 number listed here.

13 Q In response to some questions earlier in the  
14 day, you said that one SCR might be required. Which  
15 boiler would use that SCR?

16 A We've not made that determination as of yet.

17 Q Okay. If you could turn to your prefiled  
18 direct testimony on Page 8. On Page 8, Lines 19  
19 through 23, you state "A forecast of expected fuel  
20 prices is developed annually to support the company's  
21 planning process. The forecast used in this analysis  
22 is the same forecast utilized in the Tampa Electric  
23 1998 10-Year Site Plan." Is this statement correct?

24 A Yes, ma'am, to the best of my knowledge.

25 Q During which time period did Tampa Electric

1 analyze and evaluate its alternative strategies to  
2 comply with the CAAA Phase II requirements?

3 A The final evaluations were done in the late  
4 part of 1997 and the early portion of 1998.

5 Q During this time period, did the difference  
6 between Tampa Electric's forecast of coal and natural  
7 gas prices widen, narrow, or stay the same?

8 A I'm sorry. I didn't understand. The  
9 forecast that we produce for 1998 is updated when we  
10 do a 1999 forecast.

11 Q Certainly. I am speaking, though, of the  
12 time period in which Tampa Electric analyzed and  
13 evaluated its alternative strategies, and you had said  
14 late '97 to '98 was the time frame.

15 A Yes.

16 Q During that time frame did the difference  
17 between Tampa Electric's forecast of coal and natural  
18 gas prices widen, narrow, or state the same? That  
19 would be the late '97 to 1998 time frame.

20 A I don't know specifically. The fuel budget  
21 is put together for '98 in late '97. There was  
22 supplemental data filed for the 10-Year Site Plan  
23 information, and I don't recall what the relationships  
24 were.

25 Q Subject to check, would you agree that they

1 narrow?

2           A     I really don't know.

3           Q     Although the difference between Tampa  
4     Electric's forecasted coal and natural gas prices  
5     is -- we don't know, the FGD system would still be the  
6     most cost-effective alternative that Tampa Electric  
7     has evaluated. Would that be correct?

8           A     Could you repeat the first part of the  
9     question?

10          Q     Certainly. Even though you don't know what  
11     the difference was between the forecasted coal and  
12     natural gas prices, would you still agree that the FGD  
13     system is the most cost-effective alternative Tampa  
14     Electric evaluated?

15          A     The cost-effectiveness evaluations that  
16     Mr. Hernandez performed in his area indicated the FGD  
17     is the most cost-effective solution. Those  
18     cost-effectiveness analyses were using our most  
19     current fuel forecast information and project what we  
20     believe is the most current situation.

21                 Mr. Hernandez also filed a late-filed  
22     exhibit to his deposition where he looked at the cost  
23     of gas in order to make the two options equal and  
24     determined that there was a very large -- in excess of  
25     one billion dollars -- difference in present value

1 revenue requirements between the gas option.

2 Q Does the proposed scrubber project on Big  
3 Bend 1 and 2 bring TECO's entire system into  
4 compliance with SO2 requirements of the Clean Air Act,  
5 or is it just bringing Big Bend Units 1 & 2 into  
6 compliance?

7 A The addition of the FGD system at Big  
8 Bend 1 & 2 combined with modifications in the fuel  
9 that is being utilized at Gannon station will achieve  
10 the Phase II compliance.

11 Q System-wide?

12 A Yes, ma'am.

13 Q For purposes of system compliance, TECO  
14 could have elected to replace coal-fired generation  
15 with natural gas-fired generation, or even purchased  
16 power?

17 A Those are options, yes.

18 Q Does new natural gas-fired combined cycle  
19 generation technology generally have lower NOx  
20 emission rates than Big Bend 1 & 2 and Gannon Units 3,  
21 4, 5, and 6?

22 A Yes.

23 Q Do new natural gas-fired combined cycle  
24 generation technology generally lower particulate  
25 emission rates than TECO's Big Bend Units 3 & 4?

1           **A**     Yes, they do.

2           **Q**     If TECO installed new natural gas-fired  
3 combined cycle generation, one could expect TECO's  
4 system total emissions for particulates and NOx to  
5 drop?

6           **A**     If the units were installed as additional  
7 units to our system? Or replacement units?

8           **Q**     Installed new as of, say, tomorrow, if that  
9 were possible.

10          **A**     If they were installed new tomorrow, we  
11 would have all of our existing emissions, plus the  
12 incremental emissions added by that new natural  
13 gas-fired capacity.

14          **Q**     Is the proposed scrubber addition to Big  
15 Bend Units 1 & 2 going to allow TECO to reduce the  
16 price of coal delivered to these units?

17          **A**     Yes, ma'am.

18          **Q**     Is a proposed scrubber addition going to  
19 reduce the annual average delivered coal price?

20          **A**     For the system or for the units?

21          **Q**     For the system.

22          **A**     We believe that it will, yes.

23          **Q**     Would it also do that for the units?

24          **A**     Yes.

25          **MS. JAYE:** No more questions.

1           **CHAIRMAN JOHNSON:** Commissioners? Redirect?

2           **MR. LONG:** Madam Chairman, could I just take  
3 a moment to talk with the witness? We may be able to  
4 obviate redirect.

5           **CHAIRMAN JOHNSON:** I'm sorry?

6           **MR. LONG:** May I have a moment to speak with  
7 the witness? We may be able to obviate redirect.

8           **CHAIRMAN JOHNSON:** There's no objection. Do  
9 you want to just go off the record for a while?

10          **MR. LONG:** Yes.

11          **CHAIRMAN JOHNSON:** Off the record.

12                   (Discussion off the record.)

13          **MR. LONG:** We're ready to proceed. I have  
14 one question.

15          **CHAIRMAN JOHNSON:** We're going to go back on  
16 the record.

17                   **REDIRECT EXAMINATION**

18          **BY MR. LONG:**

19           **Q**     Mr. Black, you were asked a question about  
20 the lining of the stack, the existing stack, for  
21 Units 1 & 2.

22           **A**     Yes, sir.

23           **Q**     And I believe you thought that it was  
24 brick-lined?

25           **A**     That was how I responded. Upon further

1 thought, that is -- the existing stack on Big  
2 Bend 1 & 2 is a steel-lined stack.

3 MR. LONG: I have no further questions,  
4 Madam Chairman.

5 CHAIRMAN JOHNSON: Exhibits?

6 MR. LONG: I would like to move Exhibit 2  
7 into evidence.

8 MR. HOWE: I object, in particular, Chairman  
9 Johnson, to Document No. 4 of Exhibit 2.

10 CHAIRMAN JOHNSON: Is your mike on?

11 MR. HOWE: It's flashing green, if that  
12 means anything.

13 CHAIRMAN JOHNSON: Go ahead.

14 MR. HOWE: On Document No. 2 -- I'm sorry --  
15 Document No. 4 of Exhibit No. 2, we asked Mr. Black  
16 some detailed questions, particularly about AFUDC. I  
17 believe it's clear that at this time Mr. Black did not  
18 know what AFUDC rate was used to calculate it, did not  
19 know whether AFUDC had been calculated consistent with  
20 the Commission rule, did not know whether AFUDC had  
21 been calculated after or with consideration of the  
22 amount of CWIP in rate base.

23 And I believe in answer to one of my last  
24 questions, he stated that he was not in a position to  
25 give an opinion that this was a reasonable estimate of



1 the amount of -- of AFUDC would actually be accrued if  
2 the other numbers are accurate.

3 So, Chairman Johnson, I would move to  
4 strike -- or to not admit Document No. 4 or, in the  
5 alternative, to strike the last two entries, which  
6 would be AFUDC and total project estimated cost from  
7 that document.

8 **CHAIRMAN JOHNSON:** Thank you. Response?

9 **MR. LONG:** Madam Chairman, I believe  
10 Mr. Hernandez is prepared to address those specific  
11 items in his testimony. We can defer admitting into  
12 evidence the last two lines of the exhibit until after  
13 Mr. Hernandez testifies, but I think clearly those  
14 questions will be answered.

15 **CHAIRMAN JOHNSON:** Okay. I'll go ahead and  
16 admit the document with the exception of the page --  
17 the Document No. 4, and I'll just rule on that after  
18 Mr. Hernandez comes forward.

19 (Exhibit 2 received in evidence.)

20 **MR. LONG:** That's fine, Madam Chairman.

21 **MS. KAMARAS:** Madam Chairman, I'd like to  
22 move LEAF 3 and 4 into the record.

23 **MR. LONG:** Madam Chairman, I object to the  
24 admission into evidence of Exhibit 4. As I understand  
25 it, this is a Florida Power fuel forecast. There's no

1 Florida Power witness here, and given that, I'm not  
2 sure of the purpose for which this document is being  
3 offered.

4 Counsel for LEAF questioned Mr. Black for  
5 some time with regard to Tampa Electric's fuel  
6 forecast as lodged in the 10-Year Site Plan proceeding  
7 for '98.

8 It seems to me that material is clearly  
9 relevant, but if the purpose that Exhibit 4 is being  
10 offered for is to demonstrate somehow that the  
11 forecast contained here is some how superior or should  
12 give the Commission some guidance in terms of how to  
13 view the reasonableness of Tampa Electric's fuel  
14 forecast, I would submit that there's no evidentiary  
15 basis for that.

16 **CHAIRMAN JOHNSON:** Ms. Kamaras?

17 **MS. KAMARAS:** If the Commission doesn't  
18 choose to admit it in that manner, I would ask that  
19 the Commission take official recognition of the  
20 documents as documents that are submitted to -- filed  
21 formally with the Commission by electric utilities as  
22 required by the statute and the regulations of the  
23 Commission.

24 **CHAIRMAN JOHNSON:** To his -- I'm sorry.  
25 You're asking us to admit -- you're asking us to take

1 official recognition of it under the same theory that  
2 has been objected to by TECO and offered by FIPUG?

3 I'm trying to understand what you want me to  
4 do. You're saying admit this, but your grounds, the  
5 grounds that you articulated, I was interpreting as  
6 you're asking us to take official recognition of.

7 **MS. KAMARAS:** I'm saying in the alternative  
8 if you choose not to admit it under Mr. Long's  
9 objection, that I would offer it as a document that  
10 the Commission could take official recognition of as  
11 it is an official public document filed with the  
12 Commission.

13 **MR. LONG:** Well, Madam Chairman, our object  
14 here is not to deprive the Commission of information.  
15 I mean, if the Commission wants to make our fuel  
16 forecast and the 10-Year Site Plan an exhibit, we can  
17 include this Florida Power forecast. I'm not sure how  
18 much probative value it has under those circumstances,  
19 but, you know, we wouldn't object to that kind of  
20 equal treatment.

21 **CHAIRMAN JOHNSON:** Okay. Ms. Kamaras, I'd  
22 like for you to speak to his original objection, not  
23 the official recognition, because I'm not going to  
24 allow it to come in under that. So let's speak to his  
25 original ground for objection, and that went more to

1 relevance and probative value.

2           **MS. KAMARAS:** The documents that were  
3 submitted in that marked exhibit are portions of  
4 10-year site plans filed by Florida Power Corp and  
5 Lakeland Electric Utility, specifically fuel price  
6 forecasts, and they are offered for comparative  
7 purposes with the Tampa Electric forecast.

8           **CHAIRMAN JOHNSON:** So it's not relevant  
9 directly to his testimony, but you're offering it up  
10 so we can compare what Florida -- the Florida Power  
11 Corp information with -- could you explain that again?  
12 And I apologize, but I cannot hear you all that well,  
13 and I think it's the mike system.

14           **MS. KAMARAS:** We seem to be having  
15 microphone problems today. A good portion of  
16 Mr. Black's testimony and some of the exhibits that  
17 were filed go to fuel price forecasting, particularly  
18 for coal, and my purpose in asking some of the  
19 questions I did and providing those exhibits, the FERC  
20 and the 10-Year Site Plan, are to try to put that into  
21 some context and to give it, if you will, a reality  
22 check in terms of what other utilities are projecting,  
23 what Tampa Electric has said at different times about  
24 coal prices and other fuel prices.

25           **MR. LONG:** Madam Chairman, again, to save

1 time, Mr. Hernandez is prepared to address the  
2 differences between the forecasts. If we move forward  
3 and simply mark Tampa Electric's 10-Year Site Plan  
4 forecast as an exhibit and then move Exhibit 4 into  
5 evidence, we don't have any problem with that.

6 **CHAIRMAN JOHNSON:** That's fine.

7 **MS. KAMARAS:** That's fine.

8 **CHAIRMAN JOHNSON:** So with that, do you  
9 withdraw your objection?

10 **MR. LONG:** Yes, as long as we're going to  
11 mark the Tampa Electric --

12 **CHAIRMAN JOHNSON:** And it is understood that  
13 we'll do that. Very well. Show 3 and 4 admitted.

14 (Exhibits 3 and 4 received in evidence.)

15 **CHAIRMAN JOHNSON:** 5 through 10?

16 **MS. JAYE:** Staff moves Exhibits 5  
17 through 10.

18 **CHAIRMAN JOHNSON:** Shows those all admitted  
19 without objection.

20 (Exhibits 5-10 received in evidence.)

21 **MR. BEASLEY:** Madam Chairman, the 10-Year  
22 Site Plan forecast that we got from Ms. Kamaras that  
23 Mr. Long referred to would need to be identified, I  
24 believe.

25 **CHAIRMAN JOHNSON:** Which --

1           **MR. BEASLEY:** This is the document that  
2 Ms. Kamaras referred to in her discussions with  
3 Mr. Black and that she's indicated a willingness to  
4 have identified as an exhibit as well to go in with  
5 Exhibit 4.

6           **CHAIRMAN JOHNSON:** Okay. We'll identify  
7 that as 11.

8           **MR. BEASLEY:** Thank you.

9           **CHAIRMAN JOHNSON:** Give me a short title.

10          **MS. KAMARAS:** I have some extra copies of  
11 that if you need it.

12          **CHAIRMAN JOHNSON:** That would be helpful.

13          **MR. BEASLEY:** The title on the document is  
14 "Tampa Electric Company FPSC Supplemental Data  
15 Request, Review of 10-Year Site Plan, Item No. 1."

16          **CHAIRMAN JOHNSON:** That's good enough. And  
17 it will be identified as stated.

18                   (Exhibit 11 marked for identification.)

19          **CHAIRMAN JOHNSON:** Thank you, sir.

20                   (Witness Black excused.)

21                   - - - - -

22          **CHAIRMAN JOHNSON:** While the next witness is  
23 coming forward, let's go back to Exhibit 1. That's  
24 FIPUG's exhibit.

25          **MR. ELIAS:** Madam Chairman, I've reviewed

1 the cases and the statutes --

2           **CHAIRMAN JOHNSON:** Where is that voice  
3 coming from -- Mr. Elias? (Laughter)

4           **MR. ELIAS:** The proffered material  
5 identified as Exhibit 1 does not appear to fall within  
6 the ambit of Section 90.202(12) Florida Statutes as  
7 facts that are not subject to dispute because they are  
8 capable of accurate and ready determination by resort  
9 to sources whose accuracy cannot be questioned.

10           And I take some guidance from the 1996  
11 1st DCA case of *Marrity v. Marrity*. The court there  
12 stated that when a matter is judicially noticed, it is  
13 taken as true without necessity of offering evidence  
14 by party who should ordinarily have done so, and the  
15 historical doctrine of judicial notice has been  
16 applied to self-evident truths that no reasonable  
17 person could question and the truisms that approach  
18 platitudes and banalities.

19           And I am not sure that TECO's surveillance  
20 reports for the years 1993 through 1997 fit within  
21 that definition.

22           The case goes on to state that the practice  
23 of taking judicial notice of adjudicative facts should  
24 be exercised with great caution. And in looking at  
25 some of the hundreds of cases that have looked at this

1 question, it appears that the greater weight goes to  
2 facts which, indeed, are not capable of any reasonable  
3 dispute, such as the distances between towns, the day  
4 of the week that a particular date fell on; some  
5 things like the fact that the Gulf of Mexico between  
6 Florida and Texas is in not a sheltered body of water,  
7 such as a harbor or coastal waterway.

8           Those are the kinds of things the courts  
9 have taken judicial notice of. There is a case that  
10 says a court cannot take judicial notice of a tariff  
11 approved by a regulated utility commission; a fairly  
12 recent decision that says a court should not take  
13 judicial notice of a recorded mortgage or the seals of  
14 private corporations. And trying to line up these  
15 documents into those two categories, I believe that  
16 they don't fall within the ambit of the statute.

17           **CHAIRMAN JOHNSON:** Okay. Thank you for that  
18 analysis. I will deny the request for official  
19 recognition of the composite exhibit that we  
20 identified as Exhibit 1 that was offered by FIPUG.

21           **MR. BEASLEY:** Madame Chairman, we move the  
22 admission of Exhibit 11, which has been identified.

23           **CHAIRMAN JOHNSON:** Show that admitted  
24 without objection.

25           (Exhibit 11 received in evidence.)



1           **MR. HOWE:** Excuse me, Chairman Johnson. I  
2 believe the previous explanation was that Exhibit 11  
3 was going to be subject to a comparison presented by  
4 Mr. Hernandez with respect to the company's 10-Year  
5 Site Plan. Am I incorrect in that?

6           **MR. LONG:** Well, Madam Chairman, what we  
7 said was to the extent that anyone is interested in a  
8 comparison, Mr. Hernandez would be able to address  
9 those questions.

10           **CHAIRMAN JOHNSON:** That's how I understood  
11 it, too. They withdrew their objection after it was  
12 agreed upon that their information would also be added  
13 to the record, but if you want to ask questions as to  
14 the comparative nature, he'll be prepared to do that.

15           **MR. HOWE:** I withdraw the objection.

16           **CHAIRMAN JOHNSON:** Okay. Any other matters  
17 before we hear from Mr. Hernandez?

18           **MS. JAYE:** No, ma'am.

19           **CHAIRMAN JOHNSON:** And, Mr. Hernandez,  
20 you've been sworn?

21           **WITNESS HERNANDEZ:** Yes, I have.  
22  
23  
24  
25

**THOMAS L. HERNANDEZ**

1  
2 was called as a witness on behalf of Tampa Electric  
3 Company and, having been duly sworn, testified as  
4 follows:

**DIRECT EXAMINATION****BY MR. BEASLEY:**

7           **Q**     Mr. Hernandez, will you please state your  
8 name and business address and your position with Tampa  
9 Electric Company?

10           **A**     My name is Thomas L. Hernandez. I'm the  
11 vice-president of regulatory affairs for TECO Energy;  
12 business address, 702 North Franklin Street, Tampa  
13 Florida 33602.

14           **MR. BEASLEY:** Madam Chairman, as was  
15 discussed earlier, under Section IV of the prehearing  
16 order Tampa Electric has withdrawn certain portions of  
17 Mr. Hernandez's testimony, and exhibits reflect the  
18 fact that certain issues have been deferred from this  
19 proceeding.

20           We have supplied the court reporter with a  
21 modified version of that testimony which strikes  
22 through the withdrawn testimony, and I just wanted to  
23 make that reference to the testimony that  
24 Mr. Hernandez will now sponsor.

25           **CHAIRMAN JOHNSON:** Okay. Thank you.

1           **COMMISSIONER CLARK:** I have a question. How  
2 do we know what was stricken?

3           **MR. BEASLEY:** I have a list of the stricken  
4 portions.

5           **COMMISSIONER CLARK:** That would help. I'm  
6 happy for Mr. Hernandez to give his summary while  
7 that's being looked for. If I just get it sometime  
8 while he's on the stand, I'll be happy.

9           **MR. BEASLEY:** We can do that. I'll go ahead  
10 with Mr. Hernandez, and we'll supply that list of  
11 redacted portions.

12           **Q**     **(By Mr. Beasley)** Mr. Hernandez, do you  
13 have a copy of your testimony with the portions  
14 stricken?

15           **A**     Yes, I do.

16           **Q**     If I were to ask you the questions set forth  
17 in your remaining testimony, would your answers be the  
18 same?

19           **A**     Yes, they would.

20           **MR. BEASLEY:** I would ask that  
21 Mr. Hernandez's testimony be inserted into the record  
22 as though read.

23           **CHAIRMAN JOHNSON:** It will be so inserted.  
24  
25

1                   **BEFORE THE PUBLIC SERVICE COMMISSION**

2                   **PREPARED DIRECT TESTIMONY**

3                   **OF**

4                   **THOMAS L. HERNANDEZ**

5  
6   **Q.**   Please state your name and your business address.

7  
8   **A.**   My name is Thomas L. Hernandez. My business address is 702  
9           North Franklin Street, Tampa, Florida 33602. I am the Vice  
10          President-Regulatory Affairs for TECO Energy, Tampa  
11          Electric Company's parent.

12  
13   **Q.**   What is your educational background and business  
14          experience?

15  
16   **A.**   I graduated from Louisiana State University in August 1982  
17          with a Bachelor of Science degree in Chemical Engineering.  
18          My responsibilities at Tampa Electric have included  
19          engineering and management positions in Production,  
20          Generation Planning and Energy and Market Planning. I was  
21          named Director-Fuels and Environmental Services earlier in  
22          1998, and I was named Vice President-Regulatory Affairs for  
23          TECO Energy in March of this year.

24  
25   I have participated in the preparation of key studies

1 supporting the company's proposal in this proceeding.  
2 Tampa Electric's planning document to comply with Phase I  
3 requirements of the Clean Air Act Amendments of 1990  
4 ("CAAA") and associated cost-effectiveness studies were  
5 prepared under my direction and supervision while I was in  
6 the position of Manager, Generation Planning. The cost-  
7 effectiveness studies used to develop a Phase II CAAA  
8 compliance plan was prepared under my direction and  
9 supervision while I was in the position of Director, Energy  
10 and Market Planning.  
11

12 Q. Mr. Hernandez, have you previously testified before this  
13 Commission?  
14

15 A. Yes. I testified before this Commission in the last annual  
16 planning hearing Docket No. 910004-EU. I also provided a  
17 description of Tampa Electric's planning process at the  
18 FPSC Staff workshop on March 3, 1994. I also submitted  
19 testimony in Docket No. 930551-EI which was the numeric  
20 conservation goals proceeding for Tampa Electric. Most  
21 recently I testified in Docket No. 960409-EI regarding the  
22 prudence of Polk Unit One.  
23

24 Q. What is the purpose of your testimony?  
25

1 A. The purpose of my testimony is to demonstrate the  
2 reasonableness and prudence of Tampa Electric's selection  
3 of a flue gas desulfurization ("FGD") system for Big Bend  
4 Units 1 & 2 as the company's primary means of satisfying  
5 the Phase II requirements of the CAAA. As discussed below,  
6 the FGD system is the most viable and cost-effective  
7 compliance alternative for meeting the requirements of the  
8 CAAA. In addition, I will explain why the Company's  
9 proposed regulatory treatment for the FGD system should be  
10 approved and why the Commission should conclude that the  
11 reasonable and prudent project costs incurred in connection  
12 with the FGD Project qualify for cost recovery through the  
13 Environmental Cost Recovery Clause ("ECRC"), pursuant to  
14 Section 366.8255, Florida Statutes (1997), over a ten year  
15 period, beginning when the system is placed in service.

16  
17 Q. Have you prepared an exhibit in support of your testimony?

18  
19 A. Yes I have. My Exhibit No. 12 (TLH-1) consisting of four  
20 documents (Nos. 1-4) was prepared under my direction and  
21 supervision. It consists of detailed information related  
22 to Tampa Electric Company's CAAA Phase I and Phase II  
23 compliance plans and 1998 Ten Year Site Plan. The documents  
24 describe the methods and key planning assumptions used to  
25 develop the company's compliance plans and ten-year

1 expansion plan.

2

3 **FGD System Need**

4 Q. Prior to selecting a Phase II compliance option, what steps  
5 did Tampa Electric take to defer the need for additional  
6 SO<sub>2</sub> emission mitigation measures?

7

8 A. The company is dedicated to the efficient use of energy and  
9 has maintained an aggressive conservation program that has  
10 reduced the total energy requirements of the system. The  
11 company continuously monitors the energy market and  
12 purchases capacity and energy when reliable energy sources  
13 are available to economically displace system generation  
14 from our own resources. Both energy conservation and  
15 purchased power effectively reduce SO<sub>2</sub> emissions from the  
16 company's system.

17

18 Q. How did the company prepare itself to meet Phase II  
19 compliance requirements?

20

21 A. For Phase II compliance, Tampa Electric reviewed previous  
22 studies that supported the Phase I compliance plan.  
23 Several options studied in the Phase I evaluation were  
24 eliminated as Phase II options because the Phase I study  
25 concluded that they were not viable or cost-effective. The

1 remaining options were screened through quantitative and  
2 qualitative comparisons for Phase II. The results of these  
3 comparisons clearly showed that Big Bend 1 and 2 FGD system  
4 provided the greatest savings to the ratepayer on a  
5 cumulative present worth revenue requirements (CPWRR)  
6 basis. The results of the screening analysis are described  
7 in detail in Document No. 2.

8  
9 Q. Did you perform any tests to verify the viability of the  
10 Big Bend Units 1 and 2 FGD option?

11  
12 A. Yes. After a preliminary determination that the proposed  
13 Big Bend Units 1 and 2 FGD system was the most technically  
14 viable compliance option, Tampa Electric assessed the  
15 economic viability of this option. The capital cost  
16 estimates and fuel blending assumptions were evaluated to  
17 reflect Tampa Electric's most current data, and the FGD  
18 option was again compared to a fuel blending and SO<sub>2</sub>  
19 allowance purchase base case scenario. This comparison  
20 showed that the FGD system will generate significant  
21 savings of \$80 million on a CPWRR basis over a twenty year  
22 period. In addition, Tampa Electric performed  
23 sensitivities to verify the economic viability of the FGD  
24 option. These sensitivities included: capital cost, SO<sub>2</sub>  
25 allowance market viability, and a deferral analysis.



1 For the capital cost sensitivity, the CPWRR savings were  
2 compared against the base case with 5% and 10% increases in  
3 the capital estimate. In both cases, the FGD option showed  
4 significant CPWRR savings versus the base case. To examine  
5 the SO<sub>2</sub> allowance market viability, Tampa Electric  
6 evaluated the CPWRR of scenarios with varying allowance  
7 purchase quantities. The FGD option was determined to have  
8 the lowest ten-year CPWRR. Tampa Electric therefore  
9 concluded that SO<sub>2</sub> allowance purchases alone would not be  
10 the most cost effective alternative. A one year deferral  
11 analysis concluded that deferral would decrease the CPWRR  
12 savings to the ratepayer. In each of these sensitivity  
13 analyses, the proposed FGD option remained economically  
14 viable compared to the base case. These are described in  
15 detail in Document No. 2.

- 16
- 17 Q. How do the economics of the FGD option compare to those of  
18 the other compliance options evaluated by Tampa Electric?  
19
- 20 A. Of the various compliance options evaluated by Tampa  
21 Electric, the FGD option provides significantly greater  
22 CPWRR savings when compared to our base case scenario and  
23 nearly twice the expected savings of the next most  
24 economical option. The FGD option for Big Bend Units 1 and  
25 2 offers the greatest fuel savings and will provide the

1 greatest benefits to retail customers compared to the other  
2 alternatives analyzed.

3  
4 Q. Are there other benefits associated with the proposed FGD  
5 system for Big Bend Units 1 and 2?

6  
7 A. Yes, as discussed in Mr. Black's testimony, the proposed  
8 FGD system for Big Bend Units 1 and 2 has the added benefit  
9 of providing more operating flexibility and fuel diversity  
10 potential to Tampa Electric's system. The FGD options also  
11 minimizes any negative impact to system reliability  
12 compared to the blending options since these options  
13 resulted in higher capacity derations and additional  
14 maintenance outage hours.

15  
16 **Key Planning Assumptions**

17 Q. How did Tampa Electric develop and utilize the cogeneration  
18 and wholesale interchange forecasts which it relied upon in  
19 its selection of the CAAA Phase II compliance plan?

20  
21 A. The cogeneration and wholesale interchange forecasts for  
22 the cost-effectiveness studies contained in the Phase II  
23 compliance document were developed utilizing the same data  
24 and methodology contained in Tampa Electric Company's 1998  
25 Ten Year Site Plan (TYSP) filed with the Commission on

1 April 1 of this year and attached as Document No. 4. Self-  
2 service cogeneration capacity and firm and as-available  
3 cogeneration purchase power reduce the system generation  
4 requirements and results in lower SO<sub>2</sub> emissions. For  
5 example, in the year 2000, self-service cogeneration and  
6 cogeneration purchase power are projected to reduce system  
7 energy requirements by 2,547 GWH. This amount of energy is  
8 approximately equivalent to 290 MW of coal-fired capacity  
9 from Big Bend unit 1 or 2 operating for every hour of a  
10 single year. Although firm and as-available wholesale  
11 energy sales increase the system generation requirements,  
12 the combined net effect of these sales and the self-service  
13 cogeneration and cogeneration purchases results in a  
14 decrease in estimated SO<sub>2</sub> emissions.  
15

16 Q. How did Tampa Electric develop and utilize the demand and  
17 energy forecast it relied upon in selecting a CAAA Phase II  
18 compliance plan?  
19

20 A. The system demand and energy forecast utilized in the cost-  
21 effectiveness studies is the same forecast and methodology  
22 described in detail in section III of Tampa Electric  
23 Company's 1998 TYSP. The demand component of the forecast  
24 is used to project system supply side capacity requirements  
25 to ensure adequate and reliable electric power. This same

1 firm demand is used in system reliability studies in  
2 calculating projected reserve margins and is a key element  
3 in determining the need for adding new generating capacity  
4 to our system. The energy component of the forecast is  
5 used to project system generation and purchase power  
6 requirements. This same energy forecast is used in  
7 calculating expected unserved energy (EUE) and loss-of-load  
8 probability (LOLP) for the purpose of projecting system  
9 reliability. While both components of the demand and  
10 energy forecast are important for planning and operations  
11 purposes, the energy forecast and the related economic  
12 utilization of all the energy resources on Tampa Electric's  
13 system is a particularly important element of the Phase II  
14 compliance plan.

15  
16 Q. How did Tampa Electric develop and utilize the fuel price  
17 forecast it relied upon in selecting a CAAA Phase II  
18 compliance plan?

19  
20 A. The specific fuel price forecast utilized in the cost-  
21 effectiveness studies are described in detail by Mr. Black.  
22 The methodology used in the development of the specific  
23 fuel price forecasts is the same as described in section  
24 V of Tampa Electric Company's 1998 TYSP. The fuel price  
25 forecast and availability and quality of the fuels is a key

1 element of the cost-effectiveness studies because revenue  
2 requirement analyses primarily focus on fixed and operating  
3 costs to determine the most cost-effective compliance  
4 alternative. The projected fuel savings associated with  
5 specific compliance alternatives are offset by the capital  
6 and O&M costs. The combined net effect of fixed and  
7 variable costs results in the cumulative differential  
8 revenue requirements on a present worth basis. The FGD  
9 option is the most cost-effective compliance alternative  
10 due to the significant fuel savings which more than offset  
11 the capital costs of constructing and operating the FGD  
12 system for both Big Bend Units 1 and 2.

13

14 Q. How did Tampa Electric develop and utilize the demand side  
15 management (DSM) forecast it relied upon in selecting a  
16 CAAA Phase II compliance plan?

17

18 A. The DSM forecast utilized in the cost-effectiveness studies  
19 is the same forecast and methodology described in detail in  
20 section III of Tampa Electric Company's 1998 TYSP. The  
21 dispatchable DSM programs contained in the forecast  
22 effectively reduce system load requirements at times of  
23 system peak when economic supply side capacity is  
24 unavailable. These programs do not significantly reduce  
25 system energy requirements but do defer the need to

1       construct new generating capacity. The non-dispatchable  
2       DSM programs contained in the forecast effectively reduce  
3       system load requirements for all hours which result in  
4       lower system energy requirements. For example, in the year  
5       2000, non-dispatchable DSM programs are projected to reduce  
6       system energy requirements by 415 GWH along with the  
7       associated SO<sub>2</sub> emissions. This amount of energy is  
8       approximately equivalent to 50 MW of coal-fired capacity  
9       from Big Bend Unit 1 or 2 operating for every hour of a  
10       single year.

11  
12       Regulatory Treatment

13       Q.    What regulatory treatment is Tampa Electric proposing for  
14       FGD related costs?

15  
16       A.    As noted above, Tampa Electric proposes to recover  
17       prudently incurred project related costs through the ECRC  
18       over a ten year period, beginning when the FGD system is  
19       first placed in service. In the interim, project costs will  
20       be tracked and accumulated in AFUDC until the FGD goes into  
21       service. We are asking the Commission to concur with Tampa  
22       Electric's selection of the FGD option as the most cost-  
23       effective compliance alternative and to confirm that all  
24       reasonable and prudent costs associated with this project  
25       will be recoverable through the ECRC cost recovery

1 mechanism with the capital costs of the project to be  
2 recovered over a 10 year period. However, we are not  
3 requesting approval of any related FGD system project costs  
4 for cost recovery at this time. We recognize that the  
5 company will be required to present detailed evidence to  
6 support the actual and projected costs associated with the  
7 FGD system at a petition in advance of the projection  
8 period when the system goes into service and before any  
9 project related cost is recovered through the ECRC.

10  
11 Q. How does Tampa Electric intend to treat costs associated  
12 with this project while it is under construction?

13  
14 A. Tampa Electric will track its costs associated with the  
15 construction of the FGD system and accumulate them in AFUDC  
16 until the FGD system goes into service. This is consistent  
17 with the Commission's Rule 25-6.0141 identifying projects  
18 eligible for AFUDC accrual. The proposed FGD system will  
19 involve gross additions to plant in excess of 0.5% of the  
20 sum of the total balance in Account 101-Electric Plant in  
21 Service, and Account 106-Completed Construction not  
22 Classified, at the time the project commences. In  
23 addition, the project is expected to be completed in excess  
24 of one year after the commencement of construction. We  
25 request that in approving the project the Commission



1 confirm that this project qualifies for AFUDC accrual under  
2 the above-referenced Commission rule.

3  
4 Q. Why are the costs associated with the proposed construction  
5 and operation of a FGD system to serve Big Bend Units 1 and  
6 2 appropriately recovered through the Environmental Cost  
7 Recovery Clause?

8  
9 A. Consistent with the guidelines which this Commission  
10 established in Order No. PSC-94-0044-FOF-EI, the FGD  
11 related costs; A) will be incurred after April 13, 1993; B)  
12 will be incurred on the basis of a legal requirement of the  
13 CAAA; and C) are not currently being recovered through base  
14 rates or any other cost recovery mechanism.

15  
16 The FGD system related costs proposed for environmental  
17 cost recovery were not among the compliance activities  
18 included in the basis for setting base rates in Tampa  
19 Electric's last rate case, Docket No. 920324-EI, in 1992.  
20 At the time of that rate case, the planned compliance  
21 activities for Phase I of the CAAA consisted only of fuel  
22 blending with low sulfur coals and allowance purchases.

23  
24 ~~Q. Why is the ten year cost recovery period proposed by Tampa~~  
25 ~~Electric appropriate?~~



1 A. The determination of an appropriate recovery period  
2 necessarily involves the exercise of judgment. We believe  
3 the use of a ten year recovery period for the proposed FGD  
4 system is reasonable under the circumstances. Extending  
5 the recovery period beyond ten years, however, would  
6 disregard the goal of mitigating potential stranded cost.  
7 The Commission has previously recognized that stranded cost  
8 mitigation efforts are in the interest of customers and has  
9 in the past supported such efforts through reasonable  
10 means. We submit that our proposal is consistent with this  
11 policy and the Commission's past practice. Lastly, it  
12 should be noted that over the ten year recovery period  
13 customers who bear these costs will realize a net benefit.  
14 The use of a ten year recovery period is also consistent  
15 with the composite life of the project equipment used for  
16 tax purposes.

17  
18 Q. Please summarize your testimony.

19  
20 A. My testimony supports Tampa Electric's selection of a stand  
21 alone FGD system serving Big Bend Units 1 and 2 as the  
22 company's most viable and cost-effective option for meeting  
23 the heightened SO<sub>2</sub> emission limitations of Phase II of the  
24 CAAA. I explain our company's need for approval by the  
25 Commission of this project as a reasonable compliance

1 means, and a corresponding determination by the Commission  
2 that costs prudently incurred by Tampa Electric in  
3 implementing this project will and should be eligible for  
4 environmental cost recovery beginning in the cost recovery  
5 period when the project is placed in service. Finally, my  
6 ~~testimony supports the use of a ten year recovery period~~  
7 ~~for the proposed FGD system for Big Bend Units 1 and 2.~~

8  
9 Q. Does this conclude your testimony?

10  
11 A. Yes it does.  
12  
13  
14  
15

1           Q        **(By Mr. Beasley)** Mr. Hernandez, have you  
2 also prepared the exhibit attached to your testimony  
3 identified as Exhibit TLH-1?

4           A        Yes, I did.

5           Q        With the portion removed from that exhibit  
6 that corresponds with part of your testimony that was  
7 removed, would you sponsor that as your exhibit in  
8 this proceeding?

9           A        Yes, I would. Just to clarify, there were  
10 some changes and corrections made to some of the  
11 exhibits; two tables and a figure in the testimony.

12          Q        Please identify those changes.

13          A        Okay. The two tables were tables 2-4 and  
14 2-6, and 3-1, and that's Bates stamp Pages 120, 125  
15 and 135 of my exhibit.

16                   The revised tables are basically just  
17 typographical in nature and did not constitute a  
18 change in the conclusions and recommendations  
19 contained therein.

20                   **MR. BEASLEY:** Commissioners, we have copies  
21 of those. They have been filed and distributed, but  
22 if you need copies of those tables we have them  
23 available.

24          Q        **(By Mr. Beasley)** Mr. Hernandez, would you  
25 please summarize your testimony?

1           **A**     Good afternoon, Commissioners. Tampa  
2     Electric's proposed FGD system is the company's most  
3     viable and cost-effective means of complying with the  
4     Phase II SO2 requirements of the Clean Air Act.

5           Based on the company's cost-effectiveness  
6     study contained in my exhibit, the FGD option yields a  
7     net system present worth revenue requirements savings  
8     of \$18 million over the first 10 years, 80 million  
9     over the first 20 years, and 95 million over the first  
10    25 years of operation.

11           In developing our cost-effectiveness study,  
12    we adopted conservative assumptions, utilized proven  
13    planning methods and analytical tools familiar to this  
14    Commission, and tested the sensitivity of key  
15    assumptions.

16           The economic and financial assumptions used  
17    in this study are both viable and reasonable and are  
18    consistent with other business planning activities,  
19    including the development of the company's 10-Year  
20    Site Plan.

21           Through all phases of our analysis, the  
22    proposed FGD system remains the clear choice from both  
23    a customer and company perspective. The FGD option  
24    results in significant fuel savings to our customers  
25    in every year the FGD system is in service.

1           In fact, the fuel savings in just the first  
2 five years of operation nearly offsets the entire  
3 capital costs of the project. In addition to its  
4 cost-effectiveness, the proposed FGD system offers  
5 Tampa Electric the greatest flexibility for meeting  
6 future environmental requirements.

7           We are seeking your concurrence that Tampa  
8 Electric's selection of a stand-alone FGD system  
9 serving Big Bend Units 1 & 2 is the company's most  
10 viable and cost-effective option for meeting the more  
11 restrictive Phase II SO2 emission limitations of the  
12 Act.

13           It is critical that the Commission confirm  
14 that the FGD system is a reasonable and prudent  
15 compliance option, that it is a project which  
16 qualifies for AFUDC, and that all prudent and  
17 reasonable costs associated with the project will be  
18 recovered through the environmental cost recovery  
19 clause mechanism.

20           The proposed FGD system meets all of the  
21 Commission's established guidelines for ECRC recovery  
22 as the project related costs will be incurred after  
23 April 13th, 1993, will be incurred on the basis of the  
24 legal requirements of the Act, as discussed by  
25 Mr. Black, and are not currently being recovered

1 through base rates or any other cost recovery  
2 mechanism.

3 This proposed project is clearly eligible  
4 for full recovery under the Commission's standards and  
5 is precisely the type of compliance endeavor which the  
6 ECRC was designed to cover.

7 We are also requesting your approval of  
8 accruing AFUDC on this project until the FGD system  
9 actually goes into service.

10 Although we are not asking the Commission to  
11 approve any particular level of AFUDC recovery at this  
12 time, we are requesting permission to begin accruing  
13 the full amount of AFUDC on the front end.

14 Prior to seeking actual recovery of costs  
15 associated with this project, Tampa Electric will file  
16 additional supporting testimony and exhibits for  
17 consideration at a subsequent hearing to establish the  
18 appropriate ECRC factors. This outcome is consistent  
19 with the efforts of Staff and all the parties to defer  
20 cost recovery to a subsequent proceeding.

21 The Commission has encouraged parties to  
22 come in for early determinations involving capital  
23 expenditures for environmental cost recovery so that  
24 timely guidance can be provided by the Commission with  
25 respect to that investment.

1           Consequently, the Commission should find  
2 that the FGD project is the most cost-effective  
3 alternative, and that all prudent and reasonable  
4 incurred costs will be recovered to the ECRC at the  
5 earliest possible time so that all parties may plan  
6 accordingly.

7           Thank you.

8           **MR. BEASLEY:** Commissioners, if I could have  
9 an exhibit number assigned to Mr. Hernandez's exhibit.

10           **CHAIRMAN JOHNSON:** It will be identified as  
11 Exhibit 12.

12           (Exhibit 12 marked for identification.)

13           **MR. BEASLEY:** Thank you. And we tender  
14 Mr. Hernandez for questioning.

15                           **CROSS EXAMINATION**

16           **BY MR. McWHIRTER:**

17           Q     Mr. Hernandez, in the summary you just made  
18 you referred to the fuel savings in the first five  
19 years will offset the cost of -- the capital costs, as  
20 I understand it. Is that what you said?

21           A     Yes, sir, I did.

22           Q     And where is that to be found in your  
23 prefiled testimony?

24           A     Figure 3-1, the differential cumulative  
25 present worth revenue requirements graph.

1 Q Figure 3-1?

2 A Yes.

3 Q What page is that on?

4 A Give me one second. Bates stamp Page 135.

5 Q So that is not in your testimony, but it is  
6 in your exhibit?

7 A That's correct.

8 Q And we are to -- point out to me how those  
9 lines on a Y axis and X axis support your proposition  
10 that the savings will occur in the first five years  
11 from fuel that will offset the capital costs.

12 A Sure. As I mentioned in my opening  
13 statement, the \$18 million net system present worth  
14 revenue requirements consists of approximately  
15 \$100 million in fuel savings. So you net that against  
16 the capital costs.

17 What this figure on Bates stamp Page 135  
18 refers to, it's a differential cumulative present  
19 worth revenue requirements that incorporates both the  
20 fixed costs, the capital costs, the O&M costs, and the  
21 fuel savings associated with the FGD option relative  
22 to the next best -- or most cost-effective option in  
23 the final cost-effectiveness study, which is the fuel  
24 blending scenario that we discussed.

25 If you look at the construction period



1 beginning in year 1998 with an in-service date going  
2 along the Y axis of year 2000 midyear convention in  
3 this assessment, you look at the point at which the  
4 estimated capital costs -- that's what's designated as  
5 a square on this diagram -- the point at which that it  
6 crosses that reference line, the zero line, what that  
7 means is on a cumulative present worth revenue  
8 requirement basis, between the years 2004 and 2005,  
9 that effectively in every year beyond that, the  
10 cumulative present worth differential revenue  
11 requirements associated with the fuel blending  
12 scenario -- in fact the FGD option -- generates the  
13 savings associated with the fuel to offset the capital  
14 and the fixed operating costs.

15 I wasn't sure if everyone could get that out  
16 of this chart, so that's why I stated it.

17 Q I'm glad you did, because I sure didn't get  
18 it out of your testimony.

19 If I understand that chart, the line that  
20 has the squares in it, in every year for 2000 -- late  
21 2004, the capital cost will exceed the fuel cost, I  
22 suppose, but then after the year 2005, your future  
23 cost savings will result and more than offset the  
24 capital costs?

25 A That's correct. As I stated before, you

1 actually have fuel savings in every year, including  
2 the first year, when the FGD system is in operation.

3 Q So on a nominal basis, the customers between  
4 now and 2005 will pay more, but if you look at a net  
5 present value, the savings that are achieved by the  
6 customers after 2005 will redound to the reduced  
7 cumulative net worth and, therefore, it justifies the  
8 comment you made. Is that a correct analysis?

9 A Not exactly. There's an offset. And,  
10 again, I think this is more of the issue that's going  
11 to be heard in the cost recovery proceeding.

12 What you've got relative to what the  
13 ratepayers will see is a reduction in the fuel  
14 component of cost recovery. That's the fuel and  
15 purchase power cost recovery clause. So you have a  
16 decrease in that amount relative to what they would  
17 have paid if we were in a fuel blending scenario.

18 It gets back to what Mr. Black was talking  
19 about, that lower sulfur coal that would be utilized  
20 in the fuel blending scenario tends to cost more. So  
21 you've got a reduction in the fuel and purchase power  
22 cost recovery clause that offsets the increase that  
23 would be associated with the -- putting these costs in  
24 the environmental cost recovery clause. So you've got  
25 to net those two things against one another.

1           Q     But the cost recovery clause will develop a  
2 factor that's a capital cost, and that will be charged  
3 under the recovery cost. The fuel savings will be  
4 reflected in another cost recovery proceeding. Am I  
5 accurate in that?

6           A     I think that's what I just said, yes.

7           Q     So you have to put the two of them together  
8 to achieve the savings.

9           A     That's correct.

10          Q     And will all the fuel savings redound to the  
11 retail customers, or will some of the incremental low  
12 fuel costs during your off period -- off-peak period  
13 redound to the wholesale customer?

14          A     As you know, the cost-effectiveness study  
15 was based on a native load, not on a total load basis,  
16 so it included all of the retail customers and the  
17 firm wholesale customers. We did not include the  
18 as-available or broker type sales in the analyses.

19          So --

20          Q     So it's your testimony that the fuel savings  
21 that come to the retail customers and those firm  
22 customers under Schedule D that are wholesale  
23 customers, their fuel savings are the only fuel  
24 savings that are considered in your study?

25          A     In the final cost-effectiveness study;

1 that's correct.

2 Q How does the final cost-effectiveness study  
3 differ from other studies?

4 A The screening analysis contained a total  
5 load sensitivity. There was a native load look and  
6 total load look that included economy sales. In the  
7 final cost-effectiveness study, we did not want to  
8 include nonfirm or noncommitted sales since you don't  
9 know if you're going to actually make those sales; and  
10 so we wanted to demonstrate that, in fact, this was  
11 the best and most cost-effective alternative for the  
12 firm retail and the total retail customer base, as  
13 well as the firm wholesale customers.

14 So with the addition of any other additional  
15 generation requirements associated with the  
16 as-available or broker type sales, the screening  
17 sensitivity showed that, in fact, the benefit to cost  
18 ratio is improved.

19 Q I'm not sure I followed all that. But those  
20 sales, those economy sales are thrown out of all your  
21 analyses and not contained in any analysis that was  
22 used in justifying the FGD.

23 A The additional benefits associated with  
24 economy sales and the 80% margin from those sales that  
25 flows back to the retail ratepayers was excluded.

1 That's on the up side, and that's why I indicated that  
2 if you included those additional sales, the benefit to  
3 cost ratio on this project only increases.

4 Q As I understand it, you're not an  
5 accountant; is that correct?

6 A That's a fair assessment.

7 Q You're a chemical engineer; is that correct?

8 A Yes, it is.

9 Q And you are assigned by Tampa Electric  
10 Company to be in charge of their regulatory  
11 presentations. Is that essentially it?

12 A Since late March of this year; that's  
13 correct.

14 Q Does that then mean that the documents that  
15 are filed with this Commission are filed under your  
16 supervision and aegis, and you're the responsible  
17 authority for Tampa Electric for the record keeping  
18 that's filed with the Commission?

19 A I hate to ask you this, but I'm not sure  
20 what your second word was. Aegis?

21 Q It's A-E-G-I-S. It means focus, I guess.

22 A Okay. And your question was did I sponsor  
23 all of the --

24 Q Well, are you the responsible party for  
25 ensuring that the proper regulatory documents are

1 filed with the Commission?

2 A Oh. Yes, I am.

3 Q Are you familiar with the fact that each  
4 month your company files surveillance reports with the  
5 AFAD division of the Public Service Commission?

6 A Yes, sir, I do. That's the regulatory  
7 accounting area that is not under my direction and  
8 supervision; but, yes, I understand that they file  
9 those on a regular basis with the Commission.

10 Q When you file those documents, are they  
11 truthful statements of your financial circumstances as  
12 they are filed, as far as you know?

13 A I would say yes, but, again, that -- I  
14 cannot directly attest to the content of the  
15 information that's filed that doesn't fall under my  
16 area of responsibility.

17 Q But you do testify that those are documents  
18 that are filed by your company for whatever purpose  
19 they are filed; is that correct?

20 A Yes.

21 Q With this Commission?

22 A Yes.

23 Q Because of the hurricane-truncated nature of  
24 these proceedings, I'm going to limit my questions to  
25 Issues No. 6 and 7, and I'm going to quickly go

1 through those because I know that OPC has some  
2 questions on 6.

3 I'll just ask a quickie in that area, and  
4 that's the one that deals with allowance for funds  
5 used during construction.

6 And, Mr. Hernandez, with respect to your  
7 request in Issue 6 that the Commission specifically  
8 rule on this project as an AFUDC project, why is it  
9 necessary for you to have the Commission do that when  
10 there's already a rule in place that deals with AFUDC?

11 A My understanding of the environmental cost  
12 recovery clause is that in general, that the  
13 Commission would like to hear what the projected  
14 costs -- total costs for a project that will be  
15 eligible for cost recovery, full cost recovery, under  
16 the environmental cost recovery clause. AFUDC is  
17 simply another component of that total project cost.

18 As we've discussed before and identified in  
19 my testimony or exhibit, that number is approximately  
20 7.2, \$7.4 million. That's the estimated cost. And so  
21 we wanted to make sure that that amount was, in fact,  
22 included so that you saw the total project costs, and,  
23 therefore, we're asking simply that we be allowed to  
24 accrue the AFUDC and to demonstrate that -- with the  
25 contribution towards the total project costs.

1           Q     But doesn't the rule already take care of  
2 that so you don't have to worry about it at this  
3 juncture? You're giving that for informational  
4 purposes only, is that correct, and whatever the rule  
5 says, that's what will happen?

6           A     Well, again, my understanding -- and I don't  
7 pretend to -- in five months on the job to know all  
8 the rules and the orders and the guidelines that are  
9 in place. I'm learning very quickly.

10                     But, again, my interpretation in looking at  
11 the environmental cost recovery clause and what's  
12 required there is simply to show what our projected  
13 costs are and what the projected benefits of a project  
14 are, and that's why we're here.

15           Q     And other than that, there is no reason why  
16 you are specifically asking the Commission to approve  
17 AFUDC in this docket? There's nothing in the rule  
18 that requires you to come forward and say, this is  
19 different than the normal AFUDC situation and,  
20 consequently, the rules should not be applied, but  
21 something special about this case requires us to get a  
22 specific ruling from you that AFUDC is necessary?

23           A     Well, let me add that my understanding,  
24 again, of the environmental cost recovery clause is  
25 that we had the option to either seek recovery of the



1 carrying costs associated with the project through the  
2 clause immediately as we incurred those expenses.

3 We decided to defer that incremental cost to  
4 our ratepayers until the point in time that, in fact,  
5 the unit was placed in service. And since we took  
6 that option, we wanted to clarify and get an  
7 acknowledgment that we were going to instead to defer  
8 cost recovery of the carrying costs associated with  
9 this project, accrue it as AFUDC, and then put that in  
10 a cost recovery in the same year that the unit is  
11 placed into service.

12 Q All right. Now, let me ask you this with  
13 respect to AFUDC: You presently have the unusual  
14 circumstance of holding a pot of money that has been  
15 designated by your company as deferred revenue and is  
16 thought by customers to be moneys held for potential  
17 refund, and you are accruing an interest rate at 5.4%  
18 on that money.

19 Why do you think it would be more  
20 appropriate to use a 7.79% AFUDC rate rather than the  
21 cost rate that's attributable to customers' fund that  
22 you're holding?

23 A Again, I'm not an accountant. These studies  
24 were developed when I was in the capacity of director  
25 of energy and market planning. The 7.79% AFUDC rate

1 was the one provided to us and that we utilized in the  
2 cost-effectiveness evaluations.

3 Q Are you familiar with the press release that  
4 was issued by your company in mid-August to the effect  
5 that you were issuing \$200 million worth of bonds that  
6 would bear interest at 5.49%, or 5.94 -- I forget --  
7 and that money would be used for the construction of  
8 the FGD project plus other things?

9 A I have not read that article. I believe you  
10 might have mentioned that at the deposition, but I  
11 have not read that article.

12 Q You're not familiar with your company's  
13 press release?

14 A I read some of them.

15 Q Are you familiar with the fact that your  
16 company issued \$200 million worth of bonds?

17 A I think you brought that to my attention at  
18 the deposition, yes.

19 Q Did you independently verify that --

20 MR. BEASLEY: Madam Chairman, if  
21 Mr. McWhirter has an article or a document that he  
22 wants Mr. Hernandez to respond to, I think it would be  
23 appropriate for him to present it to him.

24 MR. McWHIRTER: If you'll bear with me, I'll  
25 do that.

1           **MR. BEASLEY:** And while he's getting that, I  
2 would suggest that a lot of this appears to be  
3 bordering on those issues that can be addressed in the  
4 cost recovery aspect of this proceeding, which the  
5 parties have agreed is something that we're not asking  
6 for at this time.

7           **MR. McWHIRTER:** I would be pleased to defer  
8 issue No. 6 until you seek cost recovery, if that is  
9 counsel's desire. Is that -- do you wish to stipulate  
10 to that?

11           **MR. BEASLEY:** Madam Chairman, we just don't  
12 want to have the same hearing twice is what it amounts  
13 to.

14           **MR. LONG:** Can we have one moment? Maybe we  
15 can save some time off the record.

16           **CHAIRMAN JOHNSON:** Okay. Off the record.

17           (Discussion off the record.)

18           **MR. LONG:** Madam Chairman, it's our view  
19 that it's probably most efficient to address whatever  
20 AFUDC the parties have at this point. Mr. Hernandez  
21 is prepared to do that.

22           **CHAIRMAN JOHNSON:** Okay.

23           **Q**       **(By Mr. McWhirter)** Mr. Hernandez, I hand  
24 you a press release that was issued by your company on  
25 July 31st. Would you read the portion of that press

1 release that relates to the FGD process?

2 A Is this the highlighted area?

3 Q You have the press release. You'll have to  
4 use your own best judgment.

5 A Okay. Again, I have not seen this before  
6 today. But the sentence reads "We have significant  
7 activity in these businesses as illustrated by  
8 People's Gas System's major expansion in the high  
9 growth Naples and Fort Myers areas, and Tampa  
10 Electric's recent decision to add a \$90 million  
11 scrubber to the Big Bend Units 1 & 2.

12 Q And what is the interest rates that press  
13 release says those bonds will hold?

14 A If I'm reading this right, 5.94%.

15 Q If you're able to sell bonds at 5.94% and  
16 accrue an AFUDC at a higher rate, who will get the  
17 benefit of the arbitrage that occurs?

18 A I don't know how to answer that question.

19 Q Is that because you're a chemical engineer  
20 and not an accountant?

21 A Probably.

22 Q That's all I'm going to ask you about AFUDC.

23 I'd like you to take FIPUG Exhibit 1, which  
24 has been marked for identification, and I'd like you  
25 to look at the pages after the first four pages. Do

1 you recognize those documents?

2 A No, sir, I don't.

3 Q Do you know Mr. L.L. Lefler?

4 A Yes, sir, I knew Mr. Lefler. He's no longer  
5 with the company.

6 Q Do you have any reason to believe that  
7 documents filed by Mr. L.L. Lefler on behalf of Tampa  
8 Electric Company with the Florida Public Service  
9 Commission would not be wholly truthful?

10 A No, I do not.

11 Q Do you know Mr. P.L. Barringer, assistant  
12 controller of Tampa Electric?

13 MR. BEASLEY: Madam Chairman, if I may  
14 interject, it appears that Mr. McWhirter is attempting  
15 to relitigate the issue that was decided earlier  
16 regarding official recognition of this document,  
17 Exhibit 1.

18 MR. McWHIRTER: That's not correct, Madam  
19 Chairman. You ruled that you would not take official  
20 notice of this document, but Section 90.805,  
21 subsection 18, I believe it is, of the evidence code  
22 provides that the admissions of a party may be  
23 introduced in an adversarial proceeding in which that  
24 party is a participant.

25 And these are admissions of Tampa Electric

1 officially filed with this Commission. Mr. Hernandez  
2 is the responsible regulatory person, although he's  
3 not an accountant, for supplying these documents, and  
4 I would suggest to you that they are admissions that  
5 are admissible under the exception to the hearsay  
6 rule.

7 **MR. BEASLEY:** Madam Chairman, the statute  
8 Mr. McWhirter refers to, 90.805, has to do with  
9 hearsay within hearsay, which is something that  
10 doesn't have anything to do with admissions. But  
11 admissions in the exceptions to the hearsay rule are  
12 admissions against interest, and these are apparently  
13 some documents that were filed prior to Mr. Hernandez  
14 having the responsibility he has now.

15 And it is hearsay, and I have not heard any  
16 exception to the hearsay rule which would allow these  
17 to be presented unless the individuals who prepared  
18 them are present.

19 **MR. McWHIRTER:** If the individuals who  
20 prepared them were present, it wouldn't be hearsay.  
21 I'm seeking to sponsor this exhibit under the focus of  
22 Mr. Hernandez, who is the official representative of  
23 his company to this Commission, and asking him to  
24 acknowledge that these documents are truthful  
25 documents filed by his company.

1           **CHAIRMAN JOHNSON:** Can you answer the  
2 question? Do you know?

3           **WITNESS HERNANDEZ:** I know the people. I  
4 can't -- I'm assuming that the documents provided to  
5 the Commission are, in fact, truthful as the way the  
6 question was framed, but I can't address the content  
7 in any way.

8           **Q**       **(By Mr. McWhirter)** You know the people,  
9 and they are employees of your company, and these  
10 documents were filed in the normal course of business;  
11 is that correct?

12          **A**       Yes.

13          **MR. McWHIRTER:** Madam Chairman, that gives  
14 another justification for the entry. They're business  
15 records filed in the normal course of business of  
16 Tampa Electric Company and, thereby, admissible under  
17 the evidence code.

18          **MR. BEASLEY:** We're not trying to prevent  
19 the Commission from having access to any information,  
20 but that, again, is not a legitimate exception to the  
21 hearsay rule.

22               If the custodian of the business records  
23 were here and could say, yes, I've had custody of  
24 these, I brought them with me to the hearing, you  
25 know, that's the way you lay a predicate for that

1 exception; but that doesn't apply just because  
2 Mr. Hernandez is an employee of the company.

3 **MR. McWHIRTER:** Madam Chairman, would you  
4 issue a bench subpoena to Ann Causseaux so we could  
5 get her down here?

6 **CHAIRMAN JOHNSON:** No.

7 **MR. McWHIRTER:** At this time I'd like to  
8 proffer FIPUG Exhibit 1 into evidence. I would  
9 request you reconsider your ruling on official  
10 records.

11 I would request that you acknowledge that  
12 these documents are business records of Tampa Electric  
13 that have been filed with your agency, and I would ask  
14 you to take cognizance of the fact that Mr. Hernandez  
15 has said that these are truthful statements, as best  
16 he knows, of his company, and they would be classified  
17 as information filed by his company that would be  
18 admissible as an admission against interest, if I  
19 chose to use it in that fashion.

20 **CHAIRMAN JOHNSON:** Your request for me to  
21 reconsider the official recognition is denied, but I  
22 will ask Staff their opinion as to whether or not  
23 there are grounds upon which this can be introduced.

24 **MS. JAYE:** Without having the custodian of  
25 the records for the company here to authenticate these



1 documents, I do not see a way they can be gotten in.

2 **CHAIRMAN JOHNSON:** Okay. Request for  
3 admission is denied.

4 **MR. McWHIRTER:** Well, Madam Chairman, would  
5 you, since I'm surprised by this ruling, and we raised  
6 the issue and put the company on notice that we were  
7 going to request this information, which is clearly  
8 public record information, to be introduced in the --  
9 in this proceeding, I'd like to have the authority at  
10 our September 11th hearing, should that take place, to  
11 call the custodian of the corporation, the custodian  
12 of these records, as a witness.

13 **CHAIRMAN JOHNSON:** Staff, is there any  
14 another way --

15 **COMMISSIONER CLARK:** May I make a comment?

16 **CHAIRMAN JOHNSON:** Yes.

17 **COMMISSIONER CLARK:** Mr. McWhirter, if  
18 you're referring that they were put on notice at the  
19 prehearing conference --

20 **MR. McWHIRTER:** Yes, ma'am.

21 **COMMISSIONER CLARK:** -- it was indicated to  
22 me that there would be a request for official notice.  
23 I was relying on the fact that it was clearly  
24 something that could be officially noticed, and I  
25 think this is the type of thing you should have

1 checked with Tampa Electric ahead of time and say,  
2 look, I want to put this in; can you look at it; do  
3 you have a problem with it.

4 Did you do that? Have you --

5 **MR. McWHIRTER:** Yes, ma'am. At the  
6 hearing -- and Ms. Kaufman read it out this morning,  
7 the things that we said we would ask you to take  
8 official notice of, and that was the annual reports  
9 from 1994 henceforth, and it was the surveillance  
10 reports filed with this Commission. That's pretty  
11 clear as to what they are.

12 **COMMISSIONER CLARK:** Did she do that at the  
13 prehearing?

14 **MR. McWHIRTER:** Yes, ma'am.

15 **COMMISSIONER CLARK:** Were you aware that  
16 they were going to ask for official notice of those  
17 documents at the prehearing?

18 **MR. BEASLEY:** We did, and we indicated that  
19 we would not at the time consent to those documents  
20 being officially noticed.

21 **COMMISSIONER CLARK:** Okay. My mistake,  
22 then.

23 **CHAIRMAN JOHNSON:** I recognize you asked a  
24 question about whether or not there would be another  
25 opportunity. Staff -- I don't think so in this

1 particular proceeding. Oh, you're saying if we go on  
2 to --

3 **MR. McWHIRTER:** Yes, ma'am.

4 **CHAIRMAN JOHNSON:** If we 'don't finish up --

5 **COMMISSIONER GARCIA:** Madam Chairman, I just  
6 hesitate to warn you that if you agree to that,  
7 Mr. McWhirter's talent as a litigator will probably  
8 keep this Commission sitting all day until he's  
9 assured to returning. And that is a compliment to you  
10 Mr. McWhirter, not anything else. So I would hesitate  
11 before you agree to that, that it may just delay --

12 **CHAIRMAN JOHNSON:** Given the fact that the  
13 governor hasn't issued his order, we may be able to  
14 finish up this evening anyway. It looks like we  
15 probably will.

16 Staff had one more comment.

17 **MS. JAYE:** No; no comments.

18 **MR. McWHIRTER:** Madam Chairman, I'd like to  
19 proffer this exhibit, and as I understand it, I have  
20 proffered it, and you have rejected it.

21 **CHAIRMAN JOHNSON:** Yes, sir.

22 **MR. McWHIRTER:** Based on your ruling at this  
23 point in time.

24 **CHAIRMAN JOHNSON:** Yes, sir.

25 **MR. McWHIRTER:** So we have a proffered

1 exhibit.

2 CHAIRMAN JOHNSON: Uh-huh.

3 Q (By Mr. McWhirter) Mr. Hernandez, I'm now  
4 moving to Issue No. 7, and Issue No. 7 deals with the  
5 justification for collecting the carrying costs on  
6 this plant through the cost recovery proceeding rather  
7 than base rates.

8 And I would like to address you first to  
9 Section 366.8255 Florida Statute, the statute on which  
10 this is based, and in subsection 2 of that section it  
11 says that an adjustment for the level of cost  
12 currently being recovered through base rates or other  
13 rate adjustments clauses must be included in the  
14 filing.

15 Did you make any adjustment to your -- the  
16 level of cost of being recovered in base rates as a  
17 result of this request that's appearing today?

18 Let me restate that question. It was sort  
19 of -- did you make any adjustment in the -- or will  
20 you make an adjustment in the level of costs that you  
21 seek to recover under this cost recovery clause as a  
22 result of base rate collections?

23 A No.

24 Q And would you give us your reasoning why you  
25 did not do that?

1           A     Again, my understanding is that the Florida  
2     Legislature intended to separate base rate earnings  
3     and environmental cost recovery. They did not want  
4     the company decisions to incur cost related -- to  
5     incur costs related to environmental compliance to be  
6     based on any earnings impact.

7                     They wanted to ensure that environmental  
8     expenditures were made on a timely basis and, again,  
9     to ensure compliance and would not require a lengthy  
10    regulatory process to ensure cost recovery.

11           Q     I see. Now, Subsection 5 of 366.8255  
12    specifically says any cost recovered in base rates may  
13    not also be recovered in the environmental cost  
14    recovery clause. Is that the provision in the statute  
15    that you're relying on?

16           A     I'm sorry, Mr. McWhirter. Could you repeat  
17    that again?

18           Q     It says any costs recovered in base rates  
19    may not also be recovered in the environmental cost  
20    recovery clause.

21           A     I think that's a true statement. I guess  
22    what I'm referring to and relying on is that in the  
23    past, or prior proceedings, in any attempt to relate  
24    environmental cost recovery to base rate earnings has  
25    never, in fact, been considered by this Commission;

1 neither the fuel conservation nor capacity clauses are  
2 based, in fact, on base rate earnings. The company's  
3 base rate earnings should, therefore, have no impact  
4 on ECRC recovery.

5 Q If your company were earning 25% return on  
6 equity on its base rates, it's your opinion that the  
7 Commission could not consider that earning situation  
8 when it's considering cost recovery; is that correct?

9 A The hypothetical to me, Mr. McWhirter, is  
10 just so out of the realm, it -- I guess I don't know  
11 how to respond to it. 25% return on equity?

12 Q Yes.

13 A I think the Commission has the flexibility  
14 to make an appropriate determination, one that's based  
15 on fairness and reasonableness. The hypothetical you  
16 just posed doesn't seem very reasonable to me.

17 Q All right. Where would the Commission make  
18 that determination? In the cost recovery proceedings,  
19 or in -- by initiating a base rate case?

20 A Well, again, our approach is to recover the  
21 total cost, the full cost, through the environmental  
22 cost recovery clause, as I've described.

23 The cost recovery proceeding will, in fact,  
24 take place sometime around this time next year -- I  
25 guess in the fall of 1999 coincident with the change

1 to the annual filings -- and at that point in time we  
2 will, in fact, seek total cost recovery as per the  
3 environmental cost recovery clause.

4 Q And it's your understanding as a regulatory  
5 representative of your company that it would be within  
6 the purview of the Commission to adjust cost recovery  
7 as the Legislature says, based on the amount of cost  
8 that might be recovered through base rates at that  
9 time?

10 A I guess what I'm suggesting is that the  
11 reason why we're here is to give a fair assessment  
12 about what we expect the total projected or estimated  
13 costs will, in fact, be and what the associated  
14 benefits will be to our retail ratepayers. And to the  
15 extent that we initiate a proceeding, a filing, and  
16 supporting testimony and witnesses to support the  
17 development of the appropriate environmental cost  
18 recovery cost factors, we plan to do that next time --  
19 or next year in time to support the implementation of  
20 the cost recovery factors at that same year that the  
21 FGD system goes into service.

22 Q You apparently didn't hear my question, and  
23 it must have been confusing.

24 Is it your opinion that the Commission can  
25 adjust your cost recovery based on what it deems to be

1 fair after considering base rates?

2 A I guess in my answer before I was trying to  
3 say that the Commission in this proceeding is going to  
4 review the reasonableness of our selection of an  
5 alternative and to make a determination that what  
6 we're asking for is full recovery through the  
7 environmental cost recovery clause, and that the full  
8 cost -- or full AFUDC amount would be the basis for  
9 our subsequent cost recovery proceeding next year.

10 Q I'm going to ask -- I don't want to badger  
11 you. I'm going to ask the question a little bit  
12 differently and ask you to give me a yes or no answer.

13 A I'll try.

14 Q If this time next year you come in  
15 requesting cost recovery, and at that point in time  
16 your base rates are earning your company 14% return on  
17 equity, which is more than the high the point in the  
18 authorized return on equity, and -- would it be your  
19 company's position that it must allow full cost  
20 recovery of your FGDT expenses irrespective of the  
21 fact that base rates may be earning 14%?

22 A I'm not aware of, again, the hypothetical  
23 25%, 14%, as to what those projected return on equity  
24 numbers would be, in fact, at that time.

25 I guess to answer your question, I think the



1 Commission always has the flexibility to review  
2 specific circumstances, but in this case we are  
3 seeking full recovery of the costs and feel it is  
4 appropriate that the Commission also find that we  
5 should recover 100% of the costs associated with this  
6 project; again, based on the benefits associated to  
7 our ratepayers.

8 Q So your answer was yes, with explanation; is  
9 that correct?

10 A Yes.

11 COMMISSIONER CLARK: Mr. Hernandez, let me  
12 ask something. In your rebuttal testimony you refer  
13 to -- on this point you refer to an order the  
14 Commission issued. "For the basis that Mr. Selecky  
15 states the company's proposal is premature, because we  
16 do not know what the company's financial picture will  
17 be in year 2000, how do you respond?"

18 And you say "This line of argument is not  
19 germane to this proceeding and represents an effort to  
20 relitigate an issue which has already been squarely  
21 and unambiguously decided by the Commission." And  
22 then you cite to part of the order, and the part of  
23 the order you site to says, "Thus we find the  
24 Legislature clearly intended the recovery investment  
25 carrying costs and O&M through the environmental cost

1 recovery clause. For this reason Public Counsel's  
2 argument must be rejected."

3 And then it says, "Accordingly, we find that  
4 if the utility is currently earning a fair rate of  
5 return, that it should be able to recover, upon  
6 petition, prudently incurred environmental costs."

7 Where is that in the order, and does that  
8 carry with it the implication if you're over your fair  
9 rate of return you could not get it through the cost  
10 recovery clause?

11 **WITNESS HERNANDEZ:** Can I get help with the  
12 first part of the your question?

13 **COMMISSIONER CLARK:** Say that again.

14 **WITNESS HERNANDEZ:** Can I get help with the  
15 first part of your question in terms of the reference  
16 to the order?

17 **COMMISSIONER CLARK:** That's what I need help  
18 with.

19 **WITNESS HERNANDEZ:** Okay. I need help, too.

20 **COMMISSIONER CLARK:** I have the order -- oh,  
21 I see. I'm sorry. Yes, you can get help.

22 **MS. JAYE:** Commissioner, I believe that  
23 quote comes from Page 4 of the order.

24 (Discussion off the record.)

25 **WITNESS HERNANDEZ:** (Pause) Commissioner,

1 Ms. Jaye was right. It's on Page 4 at the order on  
2 the bottom, if you allow me to read it. "Thus we find  
3 that the Legislature clearly intended the recovery of  
4 investment, carrying costs, and O&M expenses through  
5 the environmental cost recovery clause. For this  
6 reason, Public Counsel's argument must be rejected.  
7 Accordingly, we find that if the utility is currently  
8 earning a fair rate of return, that it should be able  
9 to recover, upon petition, prudently incurred  
10 environmental compliance costs through the ECRC, if  
11 such costs were incurred after the effective date of  
12 the environmental compliance cost legislation and if  
13 such costs are not being recovered through any other  
14 cost recovery mechanisms."

15 That went on to Page 5 of the order.

16 **COMMISSIONER CLARK:** Let me ask a question.  
17 Is it your company's position that -- let's suppose  
18 there are overearnings in 2000. Is it your company's  
19 position we should address those overearnings as part  
20 of an overearnings investigation and that we should  
21 allow this recovery through the cost recovery clause,  
22 or could we deny cost recovery because you're  
23 overearning?

24 **WITNESS HERNANDEZ:** To tell you the truth  
25 I'm not sure which one comes first, absent of knowing

1 what our position, in fact, is going to be. And my  
2 assumption is that that review would occur, in fact,  
3 after the year, in terms of how that year settled out;  
4 that the appropriate thing to do would be perhaps to  
5 go ahead and recover the full amount of the costs  
6 associated with the project, and then subsequent to  
7 the -- an audit review, perhaps, a review of the  
8 earnings for year 2000, that the Commission can take  
9 whatever action they deem appropriate.

10 Q (By Mr. McWhirter) Your quoted language  
11 used the phrase "fair return." As a regulatory  
12 representative of your company, what does that mean to  
13 you?

14 A We have a -- an amount, if you will, allowed  
15 in terms of the allowed rate of return, which I  
16 understand is at 12.75% return on equity, which is the  
17 top point of the range, and that we should be allowed  
18 to earn all the way up to that range. That would  
19 constitute in that sense, given that cap, a fair rate  
20 of return.

21 Q If you were earning 14%, would that be  
22 considered a fair return, in your opinion?

23 A I would say that's even a fairer, more  
24 fairer return.

25 Q (Laughter) All right. I'm about to wind

1 up.

2 Mr. Hernandez, Mr. Black told us that this  
3 project is already under construction; the pilings are  
4 being driven and contracts have been committed. If  
5 the Commission declined to rule in your favor in this  
6 proceeding, would you stop construction?

7 A Well, again, you're giving me another  
8 hypothetical. Because I feel like this is the right  
9 thing to do. It's the appropriate thing to do for our  
10 ratepayers, and given that, I really can't see how the  
11 Commission can find any other way.

12 But given that, we have demonstrated that  
13 it's cost-effective to do so, to go ahead and to  
14 construct the scrubber. It's an effective means of  
15 complying, which we are obligated to do, and as long  
16 as we have the obligation to serve -- what doesn't  
17 change here is the system requirements. We've got  
18 retail customers in a growing service territory.  
19 We've got to be able to provide the energy.

20 So absent any other recourse, i.e., there  
21 are no other viable cost-effective means to provide  
22 that energy, we have to, in fact, move forward with  
23 this project. It makes sense to do so.

24 Q I'm not suggesting that the Commission would  
25 determine that it was an inappropriate project, but

1 only determine that maybe the appropriate time to  
2 consider it would be at the time -- or consider cost  
3 recovery would be at the time that the plant is in  
4 service, as you have done in the past. You have not  
5 sought recovery until your plant was in service.

6           You wouldn't stop construction if the  
7 Commission just delayed its decision until later,  
8 would you?

9           A     Given the fact that we still have projected  
10 system energy requirements, we've got about 2.2 to  
11 2.5% retail energy growth on our system, and we've got  
12 to be in compliance by year 2000. To defer any action  
13 or stop construction of the facility would only  
14 increase the cost to our rate paper, i.e; we'd have to  
15 go back to the next most effective cost-effective  
16 alternative, which means blending of lower sulfur coal  
17 fuels, and that would result in a higher fuel  
18 adjustment, fuel and purchase power cost recovery  
19 factor than what otherwise we could develop moving  
20 forward with the project.

21           Q     Now, you're not asking to collect money now;  
22 you're going to ask to collect money at a later time  
23 as we've all agreed upon; isn't that right?

24           A     That's correct.

25           Q     Well, if you wouldn't stop construction and

1 you don't want money now, can you give me more than --  
2 can you given me even one viable reason why it's  
3 necessary to have cost recovery approved today before  
4 construction is completed and before all the facts are  
5 known?

6 A I'm not clear on what cost recovery you're  
7 suggesting that we're --

8 Q Well, what is it you're asking for in  
9 Issue No. 7?

10 A We're simply asking -- and I'll read it as  
11 stated: "Should TECO's petition for cost recovery of  
12 an FGD system on Big Bend Units 1 & 2 through the  
13 environmental cost recovery clause, ECRC, be granted?"  
14 So we're just seeking recognition that, in fact, this  
15 is the appropriate cost recovery mechanism.

16 Q You're seeking comfort from the Commission,  
17 is that it? Is there something binding that's going  
18 to happen at this proceeding that will bind the  
19 Commission at a later time, in your opinion?

20 A Well, I think the Commission always has the  
21 opportunity to review prudence and appropriate costs,  
22 and in a cost recovery proceeding as we're suggesting  
23 will occur sometime next year, they have the ability  
24 to go back and look at what are, in fact, the costs  
25 that are being sought and how that relates back to



1 this time. We're seeking, really, the three things;  
2 that this is the most cost-effective alternative for  
3 our ratepayers; that the environmental cost recovery  
4 clause is, in fact, the appropriate cost recovery  
5 mechanism; and then to get an acknowledgment that we  
6 would like to defer the accrual of AFUDC, and that  
7 would also be a cost item when we go for cost recovery  
8 about this time next year. We are not seeking cost  
9 recovery at this time.

10 Q You're seeking a ruling that cost recovery  
11 is appropriate.

12 A The mechanism for cost recovery is  
13 appropriate.

14 Q And if next year the Commission looked at  
15 your base rates and found that it would be unfair to  
16 allow you to collect whatever you're then earning on  
17 base rates plus full cost recovery, would you object  
18 if the Commission at that point in time rescinded the  
19 ruling that you're seeking today, that cost recovery  
20 is appropriate? Yes or no.

21 A I forgot how you framed the question so I'm  
22 not going to be able to say yes or no. I guess my  
23 point is --

24 Q Wait. Stop. It was very artfully phrased.

25 MR. McWHIRTER: Read back the question to



1 me.

2 **THE COURT REPORTER:** "And if next year the  
3 Commission looked at your base rates and found that it  
4 would be unfair to allow you to collect whatever  
5 you're then earning on base rates plus full cost  
6 recovery, would you object if the Commission at that  
7 point in time rescinded the ruling that you're seeking  
8 today, that cost recovery is appropriate? Yes or no."

9 **MR. BEASLEY:** The witness has expressed some  
10 problem with that question, and I'm having a little  
11 difficulty with it, too. It may have already been  
12 answered.

13 **MR. McWHIRTER:** Do you still have problems  
14 with it, Mr. Hernandez?

15 **WITNESS HERNANDEZ:** Yes, I do, because of  
16 the two references I've made now to the Commission's  
17 own order related to the Gulf proceeding on this  
18 issue.

19 **COMMISSIONER CLARK:** Mr. Hernandez, let me  
20 ask the question, because I'm curious as to your  
21 position, too.

22 If we get to 2000, if we get to 2000 and we  
23 conclude in, I guess, this August of the year 2000  
24 that it's a pretty good bet you're going to be  
25 overearning for that year, is it -- and by that I mean

1 above what was previously authorized -- is it your  
2 position that if we make a decision today that it's  
3 eligible for cost recovery under the environmental  
4 cost recovery, that you are entitled to that despite  
5 the fact that you may be overearning?

6 **WITNESS HERNANDEZ:** Again, and I'm not --  
7 not trying to be difficult. And I guess I see this as  
8 two different proceedings perhaps. There's the year  
9 2000 audit review, and to see what actually happened  
10 versus what may happen versus what we think we're  
11 eligible to do as per the intent of the environmental  
12 cost recovery clause, and that I'm not sure which one  
13 comes first.

14 But does it make sense without knowing how,  
15 in fact, Tampa Electric would end up by the end of the  
16 year 2000 to not get full recovery of the costs  
17 associated with the clause and again with the intent  
18 do you do that first and then you take another look as  
19 to what actually happened in year 2000? I guess  
20 that's what I was suggesting before. I'm not  
21 saying --

22 **COMMISSIONER CLARK:** Let's assume you take  
23 another look. Would it then be appropriate to say we  
24 shouldn't have let you recover it through the  
25 environmental cost recovery?

1           **WITNESS HERNANDEZ:** I guess it's a timing  
2 issue, Commissioner, that I'm concerned with.

3           **COMMISSIONER CLARK:** I agree with you.

4           **WITNESS HERNANDEZ:** We would file for full  
5 cost recovery in a proceeding next year on a projected  
6 basis for the year 2000. It is a timing issue  
7 problem.

8           We would have to file testimony somewhere  
9 near around October 5th or the first week of  
10 October 1999 on a projected basis well before we know  
11 what our earnings are or return is, in fact, for the  
12 year 2000. That's the problem I've got.

13           **COMMISSIONER CLARK:** Let me ask a different  
14 question, then. If you do overearn in the year 2000,  
15 and let's say you have projections this time next year  
16 that you will overearn in the year 2000, is it your  
17 position that that should be taken care of in an  
18 overearnings investigation and you should get it  
19 under -- the scrubber should still be recovered under  
20 the environmental cost recovery?

21           **WITNESS HERNANDEZ:** I find myself not being  
22 able to answer yes or no again, and let me tell you  
23 why. And it's that 13 years of planning background.  
24 One thing I've learned, that is, a forecast is never  
25 going to be 100% accurate. There's variances one way

1 or the other, and when it comes to making projections,  
2 you know, we could project a higher number, we can  
3 project a lower number.

4 I think what really matters to you is how we  
5 actually come up. How we end up. I'm sorry. And the  
6 analogy for that is, in fact, that we have a true-up  
7 mechanism associated with this fuel adjustment  
8 projection and any other projections.

9 There's ways to make adjustments based on  
10 what actually happens. So do you take action before  
11 something actually happens, or do you react? And  
12 that's the problem I've got. To me it's --

13 **COMMISSIONER CLARK:** I would agree with you  
14 on the adjustment clause, is it's a true-up, but it's  
15 not a true-up on base rates. And how do we capture  
16 the fact that you might be overearning? How do we  
17 factor that in?

18 Let me just ask this question. It seems to  
19 me your position would be that overearnings get taken  
20 care of in an investigation and that you should get  
21 the cost recovery through the environmental.

22 **WITNESS HERNANDEZ:** I'm not sure if that's  
23 the appropriate way to do that. I guess I'm stopping  
24 short and saying absent of knowing if we're going to  
25 be in an overearning situation, why -- the flip side

1 of that is why take corrective action before you know  
2 how we may end up.

3 **COMMISSIONER CLARK:** Well, the reason is we  
4 have no jurisdiction over your overearnings if we  
5 don't. I mean, we have to take some action to capture  
6 the overearnings is what I would be concerned with.  
7 And I would agree with you in the true-up clauses it's  
8 a dollar-for-dollar recovery. You project, you  
9 true-up, so you don't recover more. But in order to  
10 capture overearnings, we would have to take some  
11 action to do that.

12 **MR. BEASLEY:** Commissioner, can I offer a  
13 legal response and partially legal, partially policy?

14 **COMMISSIONER CLARK:** It's okay with me.

15 **MR. BEASLEY:** Regulatory policy. We read  
16 the Gulf Power order as saying, don't try to credit a  
17 portion of the fact that they're earning within the  
18 return and say they can go all the way down to the  
19 bottom of their zone and you don't get any until  
20 you're below that.

21 You said this is a cost, an environmental  
22 compliance cost that's not built into your base rates.  
23 Consequently we're going to keep those pots separate.  
24 And we read the logical extension of that to say if  
25 you're overearning, we bring you in, and we've got --

1 the Commission has a continuing surveillance process  
2 which works well.

3 **COMMISSIONER CLARK:** Okay.

4 **MR. BEASLEY:** And the Commission has not  
5 mixed those pots before, and I think it would be an  
6 accounting morass to -- if you brought companies in  
7 that are overearning and didn't try to adjust that out  
8 of their fuel adjustment, for example.

9 **COMMISSIONER CLARK:** Well, I appreciate  
10 that, that that is going to be your legal position,  
11 but it isn't a strict reading of that order. It does  
12 require an interpretation, because it does say  
13 "Accordingly, we find that if the utility is currently  
14 earning a fair rate of return." It doesn't say what  
15 happens when it's earning more than a fair rate of  
16 return.

17 **MR. BEASLEY:** We certainly will not be  
18 overearning between now and 2000 on account of the  
19 stipulation, and we just would encourage -- not to  
20 speculate about --

21 **COMMISSIONER CLARK:** I understand your  
22 position to be the two should be kept separate, and if  
23 there are overearnings found, you deal with it that  
24 way, you don't deal with it by denying recovery for an  
25 environmental cost.

1 an answer on the question I asked.

2 A I think I answered. I'm not sure.

3 MR. BEASLEY: What was the question?

4 Q (By Mr. Howe) The question was did the  
5 final order issued in the Polk docket alter the amount  
6 of CWIP allowed in Tampa Electric Company's rate base?  
7 I think that deserves a yes or no answer.

8 A I'm not sure but I don't know.

9 Q Are you aware of any order that changed or  
10 modified the amount of CWIP authorized in the  
11 company's rate base, by that I mean CWIP eligible  
12 otherwise to accrue AFUDC, that altered or modified  
13 the order you have before you, 93-0664?

14 MR. BEASLEY: Commissioners, that's a legal  
15 question. I think the witness indicated what he  
16 relied on in responding to Mr. Howe's question.

17 MR. HOWE: This question is is he aware of  
18 any order that altered or modified 93-0664.

19 MR. BEASLEY: Mr. Howe, I believe his point  
20 was that there was language in the order that he was  
21 attempting to refer to that addressed the question  
22 that you're asking.

23 MR. HOWE: That addresses the issue of CWIP?

24 Q (By Mr. Howe) Please refer to any  
25 language, Mr. Hernandez, that refers to CWIP.

1           A     If I may?

2           Q     Certainly.

3           A     Okay.  There's two pieces that were  
4 extracted from the Order.  I'll read the two.  The  
5 first piece addresses the environmental cost recovery  
6 clause, as you anticipated.  "As part of the  
7 stipulation, the parties agree that TECO will not use  
8 the various recovery clauses to recover capital items  
9 that normally would be covered through base rates.  
10 However, TECO would be allowed to recover its prudent  
11 expenditures associated with compliance with  
12 environmental laws and regulations through the  
13 environmental cost recovery clause."

14                     The next reference to get to the CWIP and  
15 AFUDC issue, and referred relative to Rule 25-6.0141,  
16 Paragraph 1(g).  "On a prospective basis, the  
17 Commission, upon its own motion, may determine that it  
18 is in the best interest of the ratepayers to exclude  
19 an amount of CWIP from a utility's rate base that does  
20 not qualify for AFUDC treatment per Section 1(a), and  
21 to allow the utility to accrue AFUDC on that excluded  
22 amount."

23           Q     Excuse me.  For that last part are you  
24 referring to the rule or an Order?

25           A     This is relative to the rule that you



1 provided to me.

2 Q I see. You're reading from the rule; is  
3 that correct?

4 A It's relative to the rule. That's correct.

5 Q You're saying it's relative to the rule.  
6 Are you reading from the rule or from an Order that  
7 quotes the rule?

8 A I wasn't reading the rule you handed me.  
9 It's a reference to the rule, you're correct.

10 Q Then my earlier question, is there any Order  
11 issued by the Commission subsequent to 93-0664 in  
12 which the Commission has modified the amount of CWIP  
13 allowed in Tampa Electric's rate base?

14 A Not that I'm aware of.

15 Q Mr. Hernandez, I had asked you a question  
16 earlier, and I'll need to return to it. Have you to  
17 date read all of Rule 25-6.0141?

18 A No.

19 Q Does Tampa Electric currently calculate its  
20 AFUDC rate consistent with Rule 25-6.0141?

21 A As I stated before, I am not sure how that  
22 calculation is made. That number was used in the  
23 calculation of the AFUDC amount associated with the  
24 cost-effectiveness study. That's the 7.79%. How that  
25 calculation was made I cannot address.

1 Surveillance Report for 1997 and for 1998.

2 CHAIRMAN JOHNSON: Very well.

3 Q (By Mr. Howe) Mr. Hernandez, would you  
4 please refer and read from Section 8, Subsection 8 of  
5 the rule.

6 A It begins "Each utility shall."

7 Q Yes, sir.

8 A "Each utility shall include in its  
9 Forecasted Surveillance Report a schedule of  
10 individual projects that commence during that  
11 forecasted period and are estimated to equal or exceed  
12 a gross cost of \$10 million. The schedule shall  
13 include the following minimum information." And it  
14 has four subparts. "Description of the project,  
15 estimated total cost of the project, estimated  
16 construction commencement date and estimated  
17 in-service date."

18 Q Now, Mr. Hernandez, you're welcome to review  
19 Tampa Electric's Forecasted Surveillance Reports for  
20 1997 and 1998 that have been given to you there, and  
21 have been identified as Exhibit 13.

22 And I'm going to ask you would you agree  
23 that Tampa Electric, in its Forecasted Surveillance  
24 Reports, at least for the last two years, does not  
25 comply with Section 8 of Rule 25-6.0141. Just look

1 Surveillance Reports, which would then indicate that  
2 Tampa Electric has not yet implemented Section 25-6 or  
3 Rule 25-6.0141, and, indeed, they are not required to  
4 do so until January 1st of 1999.

5 A I'm sorry, was there a question in that?

6 Q Yes, sir. Would you agree that if these  
7 surveillance reports, these Forecasted Surveillance  
8 Reports, do not contain the schedules specified in  
9 Section 8 of Rule 25-6.0141, that would be indicative  
10 of the fact that Tampa Electric has not implemented  
11 Rule 25-6.0141 at this time, and is, indeed, not  
12 required to until January 1st of 1999?

13 A Just a minute. I'd like to see the date of  
14 the last report. (Pause)

15 Mr. Howe, it's difficult to make that  
16 determination. The date on this report is March 13th,  
17 1998.

18 Q And it is the Forecasted Surveillance Report  
19 of Tampa Electric for 1998 as filed with this  
20 Commission, is it not?

21 A I'm trying to match up -- the original date  
22 of the petition was May 15th, and this projection has  
23 a date of March 13th, and you're asking me why this  
24 doesn't reflect the contents of our petition?

25 Q No, sir. Let's try to be as clear as we

1 can.

2 A Okay. Please.

3 Q Subsection 9 of Rule 25-6.0141 which you  
4 read into the record, states, does it not, that the  
5 provisions of the rule are effective January 1st,  
6 1996?

7 A Yes.

8 Q But that -- and that it shall be implemented  
9 by utilities no later than January 1st, 1999.

10 A Yes.

11 Q Okay. Now, the series of questions I was  
12 asking was given that this rule took effect January  
13 1st of 1996, which is before all of the relevant dates  
14 in this proceeding, you would expect, would you not,  
15 that if Tampa Electric had implemented this rule, that  
16 its surveillance -- its Forecasted Surveillance  
17 Reports filed after January 1st, 1996, would be in  
18 compliance?

19 A To the extent we had projects that were in  
20 excess of \$10 million, yes.

21 Q Yes, sir. And do you have any projects in  
22 excess of \$10 million in 1998?

23 A The only project that I'm aware of at this  
24 point is the one at hand, and that's the FGD  
25 projected.

1 Q Is it estimated to equal or exceed a gross  
2 cost of \$10 million?

3 A Yes.

4 Q Would you not, therefore, expect that if  
5 Tampa Electric had implemented Rule 25-6.0141 it would  
6 have included in its Forecasted Surveillance  
7 Reports --

8 A Not one dated March --

9 Q -- such a schedule?

10 A I'm sorry. Not one dated March 13, 1998.

11 Q If that March 13th was a forecast for all of  
12 1998?

13 A Mr. Howe, we didn't file our Phase II  
14 cost-effectiveness study with the Commission until May  
15 coincident with the filing of the petition. And there  
16 was not yet a determination made by senior management  
17 prior to going through the cost-effectiveness study  
18 and making a determination that this is the  
19 appropriate way for compliance.

20 So I'm not -- I guess what I'm saying is it  
21 would be difficult to provide that information to the  
22 Commission in a surveillance report dated March 13th,  
23 1998, before our board of directors and senior  
24 management approve the project.

25 Q Is it your position that Tampa Electric did

1 not have any projects which were estimated to  
2 exceed -- equal or exceed \$10 million in the years  
3 1997 or 1998 as of the dates that those respective  
4 projected surveillance reports were provided?

5 A I'm not directly involved with that type of  
6 assessment as to projects that are in excess of  
7 \$10 million. I'm not sure that there were. I'm not  
8 sure there weren't. It's difficult for me to answer  
9 your question.

10 Q Would it be fair to say overall, though,  
11 Mr. Hernandez that you do not know at this time  
12 whether Tampa Electric Company has implemented Rule  
13 25-6.0141?

14 A That's correct.

15 Q Would you agree that by the terms of the  
16 rule you will have to implement the rule by January  
17 1st of 1999?

18 A Yes, I do.

19 Q Would you agree that if the Commission were  
20 to grant your request in this docket to accrue AFUDC  
21 on the scrubber project, that that would only apply --  
22 that decision would only apply through 1998 because  
23 January 1st of 1999 the rule would take over. (Pause)

24 Are you waiting for your attorneys to press  
25 the button?

1           A     No. I'm actually trying to make a  
2     determination if I can answer that question.

3           Q     Okay.

4           A     I'd have to say before I can respond  
5     representing the company I'd have to go back and talk  
6     to folks in regulatory accounting and regulatory. I  
7     don't know. I can't answer your question.

8           Q     I'm going to ask you a question directly out  
9     of my office's Statement of Basic Position. It  
10    appears on Page 9 of the Prehearing Order. And the  
11    question is there a question? And it is, "Is Tampa  
12    Electric intending to accrue AFUDC without regard to  
13    the CWIP-in-rate-base limitation and without saying so  
14    directly?"

15          A     Not saying so directly. I guess my response  
16    is that what was used in the cost-effectiveness study  
17    and what I refer to in my opening remarks was that  
18    Tampa Electric intends to recover the full cost of the  
19    project through the environmental cost recovery  
20    clause. The full costs include an estimate at this  
21    time of approximately \$7.2- to \$7.3 million of AFUDC  
22    that would be accrued and deferred until the cost  
23    recovery proceeding the fall of 1999.

24          Q     And I wrote down a couple more words in your  
25    summary, and I think you did use that word. You

1 referred to the fact that you weren't asking for a  
2 particular level of AFUDC but you were requesting the  
3 full amount associated with the project. Is that what  
4 you're speaking of here?

5 A Yes.

6 Q And by the full amount do you mean charging  
7 AFUDC on the first dollar, the last dollar and every  
8 dollar in between?

9 A That's how the cost-effectiveness study was  
10 developed and the basis for the \$7.2 million, that's  
11 correct.

12 Q Do you necessarily mean without regard to  
13 any limitation imposed by Order No. 93-0664, or Rule  
14 25-6.0141 for the amount of CWIP currently allowed in  
15 Tampa Electric's rate base?

16 A Well, relative to the rule I believe -- and  
17 again, from the Order, it says until ordered to modify  
18 or cease by the Commission. So the Commission always  
19 has the opportunity and the flexibility to make that  
20 determination with our treatment.

21 Q I see. And you were not willing to state  
22 that directly, were you, to inform the Commission that  
23 you wanted to ignore the CWIP in rate base limitation?

24 MR. BEASLEY: Commissioners, that's an  
25 argumentative characterization. He can ask a



1 question.

2           **MR. HOWE:** I asked if -- that he wasn't  
3 willing to say so directly. That's a pretty direct  
4 question.

5           **WITNESS HERNANDEZ:** I guess my answer was  
6 that we stated we were recovering -- our intent was to  
7 recover the full cost and the estimated amount of  
8 AFUDC that would, in fact, be accrued over the three  
9 year construction period would be approximately \$7.2-  
10 to \$7.3 million.

11           **Q**       **(By Mr. Howe)** Let me try to phrase it  
12 directly then. Would Tampa Electric -- is Tampa  
13 Electric proposing to accrue AFUDC on the Big Bend 1  
14 and 2 scrubber project -- 1 and 2 scrubber project  
15 without regard to any CWIP in rate base limitation  
16 imposed by either Order No. 93-0664 or Rule 25-6.0141.

17           **MR. BEASLEY:** Commissioner, Mr. Hernandez  
18 has not indicated any willingness or desire to  
19 disregard the rule. I think he has testified,  
20 Mr. Howe, that there's language in the stipulation  
21 order which can be construed to permit this.

22           **MR. HOWE:** I think the question I asked was  
23 clearly susceptible to a yes or no answer. And the  
24 question was simply is Tampa Electric asking for  
25 permission to accrue AFUDC without regard to any CWIP

1 in rate base limitation contained in the cited order  
2 or rule. I think it's perfect for a yes or no answer.

3 **MR. BEASLEY:** Does your question assume that  
4 that's the only appropriate way that it can be  
5 justified?

6 **MR. HOWE:** No. It cites to that Order and  
7 that rule. You can take care of anything else on  
8 redirect.

9 **WITNESS HERNANDEZ:** I would say our intent  
10 is to get cost recovery for the full amount of AFUDC.

11 **MR. HOWE:** Chairman Johnson, could I have  
12 the witness directed to give a yes or no answer and  
13 then he is free to --

14 **WITNESS HERNANDEZ:** The answer is yes.

15 **Q** (By Mr. Howe) Excuse me?

16 **A** Yes, but -- I was reluctant to answer yes in  
17 the way the question was characterized.

18 **Q** Is the answer yes, Mr. Hernandez?

19 **A** Yes.

20 **MR. HOWE:** No further questions.

21 **CROSS EXAMINATION**

22 **BY MS. KAMARAS:**

23 **Q** Good afternoon, Mr. Hernandez.

24 **A** Good afternoon.

25 **Q** In response to Staff interrogatories there

1 are some seemingly inconsistent answers on your part  
2 regarding the life of the Big Bend units. And I'm  
3 going to pass this out just for convenience of folks  
4 here. (Counsel passes out documents.)

5 In response to Staff Interrogatory 14, Tampa  
6 Electric replied it had no plans to retire any Big Ben  
7 or Gannon unit over the next 40 years, and that would  
8 make their retirement date sometime after the year  
9 2028.

10 Then in response to Staff Interrogatory No.  
11 19, Tampa Electric replied that retirement dates for  
12 Big Bend 1 and 2, for purposes of depreciation, were  
13 2020 and 2023, respectively. And then in response to  
14 FIPUG Interrogatories 13 and 18 on the remaining life  
15 on Big Bend 1 and 2, Tampa Electric replied that the  
16 remaining life of Big Bend 1 and 2 were 20 and 21  
17 years, respectively, meaning that in the years 2018  
18 and 2019. Can you explain to me why there are so many  
19 different dates associated with the remaining life of  
20 these units?

21 A I'll try. For purposes of the depreciation  
22 study, in determining a schedule as to what needed to  
23 be set aside, the depreciation expense, there had to  
24 be a determination as to what -- pick a year, if you  
25 will, that -- in order to set that schedule. And so

1 for purposes of the depreciation study and the update  
2 to that there was a date, in fact, picked in order to  
3 come up with the amount that should be set aside. And  
4 this is very different than the integrated resource  
5 planning process in determining the utilization of  
6 your existing resources as well as the need for  
7 additional or future resources, DSM or supply side;  
8 however you want to look at it. Relative to the  
9 planning studies, and the cost-effectiveness  
10 assessment, no plant, except for the Hookers Point  
11 units, Hookers 1 through 5, was assumed to be retired  
12 throughout the study period. Because, in fact, there  
13 are no plans for retirement within that study period.  
14 And the study period began, and final  
15 cost-effectiveness study, somewhere 1997 through the  
16 year 2026, I believe it was.

17 So in order to try to address this potential  
18 conflict, there were two different responses. One was  
19 relative to the depreciation study and the other  
20 referred to the cost-effectiveness study.

21 Q Which one was your response to FIPUG in  
22 terms of remaining life that came up with the years  
23 2018 and 2019 or 20 and 21 years. That's different  
24 from your depreciation study and different from the 30  
25 years?

1           **A**     The difference is your starting point. I  
2 think relative to the question it was relative to the  
3 Big Bend 1 and 2 in-service date -- I'm sorry, the Big  
4 Bend 1 and 2 FGD system in-service date, which you say  
5 be taken off the year 2000. So if you match that up  
6 to the last depreciation study -- I wasn't sure if we  
7 put the date in here -- the 2020 and the 2023, that's  
8 the response to Interrogatory No. 19?

9           **Q**     Yes.

10          **A**     Okay. Relative to the FIPUG Interrogatory  
11 No. 19 is approximately 20 years. If you start from  
12 the year 2000 and go to 2020, there's 20 years. And  
13 if you go to 2023 for Big Bend No. 2, the answer to  
14 response to Interrogatory No. 18 is approximately 21.  
15 And the difference is just months, so that's your  
16 difference.

17          **Q**     So your answer to FIPUG is in relation to  
18 the depreciation life of the units?

19          **A**     FIPUG is relative to the depreciation study  
20 and keying off the first year of the FGD system being  
21 in service.

22          **Q**     Am I correct that Big Bend 1 was put in  
23 service in the year 1970 and Big Bend 2 in service in  
24 1973?

25          **A**     If you want me to verify it I can look it up

1 in our Ten Year Site Plan.

2 Q Sure.

3 A Big Bend 1, November 1970. Big Bend 2,  
4 April 1973.

5 Q So those plants at this time are 28 and 25  
6 years old respectively?

7 A Yes.

8 Q Okay. And in the year 2020, it's  
9 depreciation life for Big Bend 1, it will be 50 years  
10 old?

11 A Approximately, yes.

12 Q What experience does Tampa Electric have in  
13 operating a coal-fired power plant of that age?

14 A I don't believe any of our coal units are 50  
15 years. Let me go back to the 50 years in terms of  
16 operating life. Let me just quickly go back to the  
17 first coal unit, which would be Gannon Unit 1 and see  
18 what the in-service date was for that unit.

19 And the first coal unit on Tampa Electric's  
20 system was Gannon Unit 1 and that was placed in  
21 service, September 1957. So that unit is about 41  
22 years old.

23 Q Midlife crisis for humans.

24 A I'm sorry?

25 Q I'm sorry.

1           In the year 2323, which corresponds for your  
2 depreciation life for Big Bend 2, it will be 50 years  
3 old; is that correct?

4           A     Yes. Approximately.

5           Q     And in the year 2828, which is 30 years from  
6 now, those plants will be 58 years old and 55 years  
7 old respectively?

8           A     Yes.

9           Q     Okay. Is it fair to say that as a power  
10 plant, particularly the boiler ages, that it becomes  
11 less efficient?

12          A     I would agree with the statements that  
13 Mr. Black made, that it's directly proportional to  
14 your maintenance program.

15          Q     In that case would it be fair to say that as  
16 a power plant, and particularly the boiler ages, it  
17 may have increased operating maintenance costs  
18 associated with it?

19          A     It may, it may not. It depends on equipment  
20 wears out over time and you have to replace some of  
21 that equipment. But in terms of performance and unit  
22 availability, it really gets back to how you utilize  
23 that resource as well.

24          Q     Are you familiar with the Big Bend 3 and 4  
25 scrubber project?

1           A     A little.

2           Q     I asked this question of Mr. Black and he  
3 was unable to answer it. Are you familiar with the  
4 projected or actual operating and maintenance costs  
5 associated with that project?

6           A     Not offhand, no.

7           Q     It was stated earlier, I believe, by  
8 Mr. Black that there is some probability of Tampa  
9 Electric needing to purchase allowances with the  
10 scrubber installed; is that correct?

11          A     Yes.

12          Q     Have you projected the price of those  
13 allowances?

14          A     Yes. There is a projection that was used in  
15 the cost-effectiveness studies.

16          Q     And what generally are the prices that  
17 you've projected?

18          A     I think in the first year of Phase II,  
19 beginning around the year 2000, I believe the prices  
20 start on or close to about \$130 per SO2 allowance time  
21 and then escalate through time.

22          Q     In your cost-effectiveness analysis where is  
23 the savings from or cost of allowances accounted for?

24          A     They are included in the total system  
25 revenue requirement analysis. And included in the



1 differential.

2 Q Is there any specific breakout of those  
3 numbers?

4 A I don't believe so. I believe they would be  
5 contained in the fuel numbers. That's what you're  
6 offsetting. When you put in the allowances you're  
7 basically balancing the book at the end of the year on  
8 a projected basis as well as on an actual operating  
9 basis. So since -- again what I was talking about  
10 before on a projected basis, you may be off by a  
11 kilowatt-hour or two when you get to the end of the  
12 year. So you balance the books, if you will, with the  
13 purchase allowances. You also take advantage to the  
14 extent that if the allowances are available at an  
15 increment in price lower than what it would cost for  
16 you to fuel blend, that you should go ahead and buy  
17 the allowances based on that price mechanism. So the  
18 amount that actually gets booked depends on the  
19 utilizations of the resources again to meet the system  
20 requirement.

21 Q Page 6 of your testimony discusses the  
22 sensitivity of the conclusions relating to the cost of  
23 SO2 allowances. What was of the base cost of  
24 allowances assumed?

25 A The base cost. That was the \$130. And then

1 it escalates through time.

2 Q In regard to Tampa Electric's Late-filed  
3 Deposition Exhibit 1, the assessment of the natural  
4 gas option, I had some questions for you and I'm going  
5 to pass something out here just for reference.

6 COMMISSIONER DEASON: Ms. Kamaras, Mr. Howe  
7 probably would do that for you and you could sit down  
8 and ask your questions.

9 MR. HOWE: Thank you, Commissioner Deason.

10 Q (By Ms. Kamaras) This is a table taken  
11 from the Duke New Smyrna filing --

12 MS. KAMARAS: I'm not seeking to have it  
13 marked. I gave a copy to everybody as a courtesy.

14 Q (By Ms. Kamaras) This is a listing of  
15 power plants proposed for Peninsular Florida.

16 MR. BEASLEY: Could I briefly inquire, this  
17 is taken from the New Smyrna filing?

18 MS. KAMARAS: Yes, it is.

19 MR. BEASLEY: What proceeding?

20 MS. KAMARAS: It's 981042. It's the need  
21 determination filing.

22 MR. BEASLEY: For what purpose would this be  
23 offered?

24 MS. KAMARAS: This is just information. I'm  
25 not seeking to have this -- accepted as an exhibit. I

1 just have some questions, and this is an easier way to  
2 ask it.

3 MR. BEASLEY: Recognizing that the witness  
4 hasn't necessarily seen this or verified the contents  
5 of it.

6 MS. KAMARAS: Correct.

7 Q (By Ms. Kamaras) In your late-filed  
8 deposition exhibit, Tampa Electric assumed a heat rate  
9 of 7,000 Btu per kWh for the gas unit. And I note  
10 that in this filing the heat rates are generally lower  
11 than that with two exceptions, and I just wanted to  
12 ask what was the basis for your assumption regarding a  
13 7,000 heat rate?

14 A For planning purposes it certainly seemed  
15 reasonable. Are you asking me to make a comment on  
16 these numbers that you passed out or --?

17 Q If you can.

18 A Okay. The important thing that you need to  
19 remember when you talk about heat rate or any  
20 operating characteristic goes back again to how often  
21 that resource is utilized. A resource that's utilized  
22 for one day at 100% load factor is going to be -- all  
23 things considered equal, are going to be pretty close  
24 to an expected operating heat rate, if you will, just  
25 to focus on the heat rate issue. But to the extent if

1 you back off that resource, instead of 100% load  
2 factor, you operate at, let's say, an 80% load factor  
3 or a 60% load factor, now you pull in all those other  
4 times where it's ramping up and down; it's not sitting  
5 in a stable state. And what you effectively get as  
6 you move off an ideal operating heat rate to one  
7 that's more actual. It's what you effectively realize  
8 when you account for normal operation. So you've got  
9 to be careful not looking at the context, they don't  
10 show what the capacity factor or the net operating  
11 factor is. It's simply a number with an availability  
12 factor. It does not address utilization. So I would  
13 say the 7,000 net heat rate number that was utilized  
14 in that hypothetical is certainly reasonable looking  
15 at these numbers.

16 Q In your late-filed deposition exhibit the  
17 analysis indicates that for a coal unit the basis for  
18 a heat rate of 10,000 Btu per kWh for TECO's proposed  
19 compliance options, I note pursuant to Tampa  
20 Electric's filing with FERC I proffered earlier, that  
21 the heat rate for Big Bend is approximately 11,275 and  
22 for Gannon is a little over 11,000. And I would like  
23 to know what the basis of a heat rate of 10,000 was?

24 A Big Bend Units 1 and 2 operate on an average  
25 approximately 10,000 Btus per kilowatt-hour. I cannot

1 address the 11,000 reference. That seems way too high  
2 for the coal units. You get different heat rates  
3 based on operating temperatures, both ambient cooling  
4 water temperatures that affect that number. But on an  
5 actual basis it should be very close to the 10,000 Btu  
6 kilowatt-hour.

7 Q Your late-filed exhibit says average heat  
8 rate 10,000?

9 A Right. That would account for the  
10 seasonality that I was talking about. The heat rates  
11 tend to be higher than 10,000 over the summer months  
12 because of the operating conditions. Ambient  
13 temperatures are up; cooling water temperatures are  
14 up. In the winter you gain efficiency and it tends to  
15 be below 10,000. It also gets to the fuel issues and  
16 other operating characteristics, but generally the  
17 10,000 is a good number.

18 Q Why the higher numbers reported to FERC?

19 A Can you show me the reference? I haven't  
20 seen that.

21 Q Yes. (Hands document to witness.)

22 A You can't tell it's the heat rate. There's  
23 no reference. (Pause) Okay. I understand the  
24 concern.

25 What Ms. Kamaras was referencing was not

1 heat rate. It's heat content and it's Btu per pound  
2 of fuel. That's the value of heat that's in a unit of  
3 fuel. It's not the heat rate of the unit.

4 **MS. KAMARAS:** Thank you. I have no further  
5 questions. Thank you, Mr. Hernandez.

6 **MS. JAYE:** Staff is now going to distribute  
7 a package of documents as we did for Mr. Black. We'd  
8 like to get these documents marked for identification.

9 **CHAIRMAN JOHNSON:** Go ahead.

10 **MS. JAYE:** If we could make a composite  
11 exhibit of the first two documents, and this would be  
12 Exhibit No. 14, both the transcript and the late-filed  
13 deposition exhibits of Mr. Hernandez.

14 **CHAIRMAN JOHNSON:** They will be marked as  
15 composite 14.

16 (Exhibit 14 marked for identification.)

17 **MS. JAYE:** The third document in this stack  
18 to be marked as Exhibit 15, TECO's revised August 1998  
19 Ten Year Site Plan for Electric Generating Facilities.

20 **CHAIRMAN JOHNSON:** That will be marked as  
21 15.

22 (Exhibit 15 marked for identification.)

23 **MS. JAYE:** And the next document to be  
24 marked as 16, TECO's revisions to the April 1, 1998,  
25 filing of the Ten Year Site Plan.

1                   **CHAIRMAN JOHNSON:** Marked 16.

2                   (Exhibit 16 marked for identification)

3                   **MS. JAYE:** And the last one to be marked as  
4 17, TECO's response to Staff Request for Production  
5 No. 23.

6                   **CHAIRMAN JOHNSON:** Marked 17.

7                   (Exhibit 17 marked for identification.)

8                   **CROSS EXAMINATION**

9 **BY MS. JAYE:**

10                  **Q**     Mr. Hernandez, if you would take a look at  
11 that first document, No. 14. Could you tell me what  
12 that looks to be to you?

13                  **A**     No. 14?

14                  **Q**     Yes.

15                  **A**     Is that the late-filed deposition exhibit?

16                  **Q**     It would be the document before that. Those  
17 are both marked just 14, a composite exhibit.

18                  **A**     Okay. It's the transcript of the August  
19 11th deposition.

20                  **Q**     Okay. Have you had an opportunity to read  
21 and sign that?

22                  **A**     Yes, I did.

23                  **Q**     If I ask you the same questions today, would  
24 your answers be substantially the same?

25                  **A**     Making the adjustments on the errata sheet,

1 yes.

2 Q If you would turn to the second group of  
3 documents in that Exhibit 14, which would be the  
4 late-filed deposition exhibits. Please turn to your  
5 Late-filed Deposition Exhibit 1.

6 A Yes.

7 Q Indicated on that exhibit is an average  
8 capacity factor of 80%; is that correct?

9 A Yes, that's correct.

10 Q Subject to check, would you agree that the  
11 capacity factor for an 850 megawatt unit which  
12 generates 5,600,000 megawatt-hours per year is 75?

13 A 75 what?

14 Q Percent.

15 A Subject to check, yes. I can do the  
16 calculation but --.

17 Q That won't be necessary. Column 9 does not  
18 include catalytic reduction technology retrofit costs;  
19 is that correct?

20 A Column 9. I'm sorry, the question was it's  
21 NOX --

22 Q Column 9 does not include catalytic  
23 reduction technology retrofit costs?

24 A Yes, that's correct.

25 Q If we knew today that catalytic reduction



1 technology retrofits would be required, would it be  
2 appropriate for those costs to be included in this  
3 column?

4 A If there was a determination that that was  
5 the appropriate way to comply, yes.

6 Q Have you listed only Big Bend 1 and 2 FGD  
7 costs in Column 11?

8 A Allow me just one second. (Pause) Yes, I  
9 believe that's right.

10 Q These are not all the nonfuel system costs,  
11 are they?

12 A All of the nonfuel system costs?

13 Q Yes.

14 A No. There would be other system-related  
15 costs, that's correct.

16 Q In arriving at these numbers it also appears  
17 that your assumption was that the FGD would be  
18 depreciated over ten years; is that correct?

19 A I don't recall if we used the ten year  
20 convention, but it appears that may be right. It  
21 doesn't indicate that on here, though.

22 Q Subject to check, would you agree that that  
23 appears to be the case?

24 A Yes.

25 Q Is the expected useful life of the proposed

1 FGD 30 years?

2 A The useful life, yes.

3 Q Yes. Looking now at Column 12, does it  
4 capture TECO's total nonfuel system compliance cost  
5 for NOX, particulates and SO2?

6 A I believe this is cost associated with Big  
7 Bend 1 and 2. And again relative to the context of  
8 hypothetical it's a displacement of Big Bend 1 and 2  
9 units.

10 Q Is it not incremental to the base case or  
11 reference case?

12 A Yes, it is.

13 Q With that in mind, if you would, please turn  
14 to your Late-filed Deposition Exhibit No. 6, Page 4 of  
15 4. Does this schedule also show TECO's Big Bend 1 and  
16 2 FGD scrubber costs? These are the two on the far  
17 left, two columns on the far left.

18 A Yes, it does.

19 Q Should the sum of these two columns be the  
20 same as Column 11 in the Late-filed Deposition Exhibit  
21 No. 1?

22 A No.

23 Q Could you please explain?

24 A Yes. And I'm recalling now that the  
25 hypothetical that was set up in the Exhibit No. 1 was

1 a displacement of the Big Bend capacity with combined  
2 cycle capacity. And so this is an estimate of the  
3 costs associated with the capital dollars associated  
4 with building the scrubber. Let me check that. Hold  
5 on one second. Let me check this. (Pause)

6 I'm sorry, these are the nonfuel operating  
7 costs associated with the scrubber. These are  
8 incremental. The Item No. 6 that you just referenced  
9 on the revenue breakdown is the non-levelized revenue  
10 requirements associated with the construction of the  
11 FGD system. They are two different things.

12 Q So if you were looking at your Late-filed  
13 Deposition Exhibit No. 6 is that total cost or  
14 incremental cost?

15 A These are differential revenue requirement  
16 costs associated with the different options from the  
17 screening analysis.

18 Q All right. Looking at Column 11 and the  
19 Late-filed Deposition Exhibit No. 1, is that total or  
20 incremental cost?

21 A Can I have one minute to check that  
22 calculation? (Pause)

23 Okay, I think I understand the difference  
24 now. The 10-year convention versus the 30-year  
25 convention, there's a difference in the assumptions

1 related to the screening analysis associated with the  
2 response to No. 6. No. 6 was a question to provide  
3 the annual revenue requirements on the capital, O&M  
4 and fuel relative to the other options identified in  
5 the screening analysis. And the final  
6 cost-effectiveness study, we only have the two  
7 options, the FGD and the fuel blend. So in order to  
8 provide the response to Item No. 6, the information  
9 there is related back to the screening analysis. The  
10 information that was provided in response to No. 1 was  
11 based on the hypothetical displacement, was utilizing  
12 the information on the final cost-effectiveness study  
13 beside the 30- and 40-year convention. That's why the  
14 numbers don't match up. I apologize for the  
15 confusion.

16 Q Is the fuel cost listed in this late-filed  
17 exhibit -- again, we're looking the Exhibit 6, Page 4  
18 of 4, an incremental cost or an incremental savings?

19 A Which column was that, I'm sorry?

20 Q This would just be the entire exhibit, the  
21 Late-filed Deposition Exhibit No. 6, Page 4 of 4.  
22 There's a fuel cost listed on this exhibit. And what  
23 I'm asking is is this an incremental cost or an  
24 incremental savings? I believe this would be the  
25 third column under each option.

1           **A**     They are differential so it would be  
2 incremental.

3           **Q**     Staying with that exhibit, Mr. Hernandez, if  
4 you look over the total revenue requirement column, I  
5 believe this would be the fourth one over?

6           **A**     Page 4 of 4 still.

7           **Q**     Yes. For at least the first two options,  
8 and for most of the second two options, those are  
9 negative numbers in the total revenue requirement  
10 column and I was wondering if you could explain how  
11 that can be. (Pause)

12                   If you can just walk us through how you come  
13 from positive numbers in the first three columns to  
14 negative numbers under total revenue requirement in  
15 the fourth column that would be helpful.

16           **A**     I believe if you take capital revenue  
17 requirement differential plus differential nonfuel O&M  
18 less the fuel differential you come up with the net.  
19 I can try to do the calculation for you.

20           **Q**     I don't believe that will be necessary. Let  
21 me confer with Staff one moment. (Pause)

22                   Mr. Hernandez, looking still at Page 4 of 4  
23 on Late-filed No. 6, could you explain why you  
24 subtract fuel? That would be column No. 3.

25           **A**     Sure. Let's just talk about the first

1 option, Big Bend 1 and 2 FGD. As we've discussed  
2 throughout this proceeding, the significant fuel  
3 savings associated with the scrubber option versus the  
4 fuel blending option, and all of these differentials  
5 are relative to the base case, it's a fuel blending  
6 option.

7           There's an incremental increase in capital  
8 revenue requirements. There's an increase for most  
9 years in nonfuel O&M, but you get a fuel savings. So  
10 to come up with the differential revenue requirements  
11 you would take the incremental capital revenue  
12 requirements plus the incremental nonfuel O&M and  
13 subtract out the fuel savings.

14           Another way to have done this would have  
15 been to show all the fuel differentials as a negative  
16 and then when you just add the numbers across and you  
17 net out.

18           Q     Okay. Mr. Hernandez, consumables like  
19 limestone would be include in the nonfuel O&M cost  
20 columns or would they be in the fuel columns of your  
21 Late-filed Deposition Exhibit 6?

22           A     Nonfuel O&M.

23           Q     Going back now to your Late-filed Deposition  
24 Exhibit No. 1, Column 11 includes consumables like  
25 limestone, does it not?

1           A     Yes.  Yes.

2           Q     Are the total TECO system-wide costs to  
3 comply with particulate requirements listed in Column  
4 10?

5           A     In Exhibit No. 1.

6           Q     Yes.

7           A     No.  These are related to just Big Bend 1  
8 and 2.

9           Q     Now, look at Page 5 of 6 of Late-filed  
10 Deposition Exhibit No. 1, at Column 30, this appears  
11 to be an estimate of the break-even price of natural  
12 gas for a combined cycle unit to provide the same  
13 level of SO2 compliance on TECO's system as the  
14 proposed FGD.  Is that the case?

15          A     Yes.

16          Q     If natural gas could be delivered at the  
17 break-even price, TECO's revenue requirements with a  
18 new combined cycle option would be the same as the  
19 scrubber option, would they not?

20          A     Based on this hypothetical, yes.

21          Q     Now, if you would turn to Page 6 of 6 of the  
22 same document, which would be Exhibit 1, there's a  
23 fuel price comparison graph.  How close to the  
24 projected natural gas price does the break-even  
25 natural gas price have to be for you, being TECO, to

1 consider both the FGD and a new combined cycle option  
2 as being competitive? Would it be 5%, 15%, 20% or  
3 what?

4       A Well, again, looking at the graph on Page 6  
5 of 6, they'd have to give us the gas free and pay us  
6 to take it in the first year, year 2000. For all of  
7 the years the break-even natural gas price is well  
8 below not only the natural gas price forecast but well  
9 below the coal price forecast. Relative to the coal  
10 price forecast in early years it's roughly 10% of what  
11 the coal price forecast would be. So natural gas as  
12 break-even would be practically -- you know, you can't  
13 get it. It's just not feasible.

14       Q All right. Assuming that the goods must be  
15 given away, as you say, in the first year, et cetera,  
16 if you could get the gas at the projected natural gas  
17 break-even price, how close does that have to be for  
18 you to consider natural gas in a combined cycle  
19 unit -- how close does that have to be for you to  
20 consider that option over FGD, or even consider it as  
21 being competitive with the FGD?

22       A How close does the natural gas price need to  
23 be to the break-even price?

24       Q Yes, and other fuel prices. Of course, if  
25 you go with the FGD you will not be using natural gas.



1 I realize that. Does it have to be within 10%, within  
2 5%?

3 A In the initial years it's -- the initial  
4 year you can't get there. It's 100% plus' reduction.  
5 They give it away and they give you some money. In  
6 all of the other years, beginning in the year 2001,  
7 we're looking at roughly -- I'm going to guess, but  
8 just looking at the graph it looks at about 5% or less  
9 of our natural gas price forecast. And then all the  
10 way going out to the year 2026 roughly 25% of our  
11 natural gas price forecast.

12 Q Asking it another way, how high does the  
13 break-even natural gas price have to be for it to be  
14 competitive?

15 A In order for the natural gas -- well, in  
16 order for the combined cycle displacement option  
17 burning natural gas to be competitive to the FGD  
18 option, natural gas prices would have to be very close  
19 to the break-even prices that we're talking about.  
20 Just as a reference point, for the year 2001 natural  
21 gas delivered would have to be 35 cents per million  
22 Btu, growing through time, up until the point, year  
23 2026 it would get to be \$2.64 per mmBtu. That's well  
24 below any coal price forecast.

25 Q Mr. Hernandez, if you would please turn to

1 your Late-filed Deposition Exhibit No. 8. Is the  
2 question that these three tables addresses, is this  
3 question the annual compliance production cost  
4 scenarios for each option that has been reviewed?

5 A I'm sorry, you're looking at Page 2 of the  
6 response.

7 Q No. This is the Late-filed Deposition  
8 Exhibit No. 8. There should be three columns.

9 A I'm not sure we're looking at the same  
10 thing. My Late-filed Deposition Exhibit No. 8 is  
11 refiled production of documents No. 26. And it simply  
12 just provides the headings that were cut off for  
13 clarity, so it's just a refiled of those same  
14 documents with the additional headings added to the  
15 top of the columns. Are we looking at the same thing?

16 Q Yes, we are. We're looking at Pages 2, 3 of  
17 4 and these are three tables. And what I'm asking is  
18 do these address the annual compliance production cost  
19 scenarios for each option that has been reviewed?

20 A No.

21 Q How many options are shown on these tables?

22 A The chart on Page 2 of 4 is the final  
23 cost-effectiveness study analysis. And this is for  
24 native load. And I can't tell if this is the fuel  
25 blending scenario or the scrub scenario. The document

1 or table on Page 3 of 4 is a, again, final  
2 cost-effectiveness FGD case. So the other one must  
3 have been the base case. I'm sorry, I see that now.  
4 Again, on the native load basis and, again, the final  
5 cost-effectiveness study.

6 The chart on Page 4 of 4 is the screening  
7 analysis that was completed earlier in the process.  
8 So this was done in 1996, late 1996, and the earlier  
9 two charts were done in 1998. These screening  
10 analysis just addresses the fuel blending scenario on  
11 total load basis.

12 Q Given that, Mr. Hernandez, could you agree  
13 with me then basically TECO's final decision was not  
14 between five options, which would have been four FGD  
15 options and a fuel switching option?

16 A There were five options that were considered  
17 in the screening assessment done in late 1996, early  
18 1997. And once the cost-effectiveness studies and the  
19 engineering feasibility studies determined that we  
20 effectively had two options, two viable options that  
21 were the most cost-effective. So both technically  
22 viable as well as cost-effective, we ended up in a  
23 fuel blending scenario as Mr. Black and I have  
24 discussed during the proceeding, as well as the FGD  
25 option, which is the recommended option.

1           So if you refer to the Phase II compliance  
2 study there's two phases. There's a screening phase  
3 where we have the five options and then there was the  
4 final phase where there were the two options. And  
5 that's what was relied on to make the determination  
6 that the FGD option is the most cost-effective and  
7 viable alternative.

8           Q     If you would now turn to the document that  
9 has been marked as Exhibit 15. This would be the  
10 Revised August 1998 Ten Year Site Plan.

11          A     Yes.

12          Q     If you would turn to page Roman Numeral  
13 II-11, Schedule 3.3. Table Roman Numeral II-4 titled,  
14 "History and Forecast of Annual Net Energy for Load"  
15 gigawatt-hours, Column 8, titled "Net Energy for  
16 Load."

17          A     Yes, I found it.

18          Q     Does this net energy for load forecast  
19 include sufficient energy to operate the proposed FGD  
20 system?

21          A     Does it include sufficient energy?

22          Q     Uh-huh.

23          A     Well, let me describe it. I think the  
24 answer is yes, but let me describe what the table is  
25 and how it relates back to the final

1 cost-effectiveness study.

2           There's two pieces to look at on this page  
3 and it's Column 5 -- I'm sorry, Column 8 which is the  
4 net energy for load number, and that effectively  
5 includes both Column 5 and 6, the retail and wholesale  
6 firm energy sales. It excludes the as-available  
7 broker sales.

8           If we were to compare, if you will, Column 8  
9 to the Ten Year Site Plan that was filed and attached  
10 as Document No. 4 in my exhibit, I think you'll see in  
11 all years except for perhaps the first year, 1998,  
12 that the combined net energy for load is, in fact,  
13 higher than the net energy for load that was the basis  
14 for the final cost effectiveness study.

15           So if I understand your question is there  
16 enough? Yes, there's sufficient energy projected in  
17 terms of system requirements, and, therefore, the FGD  
18 option is, in fact, just a little bit more cost  
19 affective.

20           Q     Does the new load forecast make TECO's FGD  
21 compliance option more, less or equally cost  
22 affective?

23           A     More.

24           Q     Now, if you would refer to the April 1998  
25 Ten Year Site Plan. These are the revisions that TECO

1 filed to this April 1st, 1998 filing. This document  
2 contains revisions to six different schedules; history  
3 and forecast of summer peak demand; base high and low  
4 cases, and history and forecast of winter peak demand  
5 base high and low cases. Were these revisions filed  
6 at the request of Commission Staff?

7 A Yes, they were.

8 Q Why did the Commission Staff request these  
9 revisions?

10 A Why did Staff request them?

11 Q Yes.

12 A In reviewing the Ten Year Site Plan that was  
13 filed in April 1998 there was a determination upon the  
14 development of the amended 1998 plan that these  
15 schedules related to the summer and winter peak demand  
16 for both base case and high and low sensitivity were,  
17 in fact, in error. The D&E forecast was not in error.  
18 These schedules were prepared in error. What had  
19 happened was that there was a double counting of the  
20 nonfirm load, and effectively reduced the -- what was  
21 shown as the firm peak. And, in fact, if you were to  
22 compare the firm peaks in the schedules as filed,  
23 April 1998, they did not match up with a similar  
24 schedule later on in the Ten Year Site Plan filing  
25 related to the calculation of reserve margins.

1           The firm peaks in those calculations for  
2 reserve margins were correct, and the D&E forecast was  
3 correct. It was simply the preparation of these  
4 schedules had the error of double counting some  
5 nonfirm load.

6           Q     Mr. Hernandez, which columns are double  
7 counted?

8           A     I believe -- subject to check, I can go  
9 through and check this, either on the break -- but I  
10 believe it's the conservation numbers for both  
11 residential and commercial and industrial. And that  
12 error flows through as a calculation to back up to  
13 Column No. 2. You'll see that it affects not only the  
14 net firm, but also affects Column No. 2, the total.  
15 So I believe it's the conservation numbers, but I'd  
16 have to check that.

17          Q     That's good. Thank you.

18                   In Chapter 3 of TECO's Ten Year Site Plan  
19 filing that you filed with your prefiled direct  
20 testimony, at pages 184 through 213, you have a list  
21 of parameters in a load forecast model. And I was  
22 wondering if you could tell which of those are  
23 sensitive to changes in environmental regulations for  
24 SO2 and NOX?

25          A     Bates stamp Page 184.

1           Q     I don't know the Bates stamp page number.  
2     Yes, it is 184. (Pause)

3           A     Okay. I found the page. What was the  
4     question again?

5           Q     There's a list there of parameters and load  
6     forecast model. And what I'd like is for you to  
7     discuss which of those are sensitive to changes in  
8     environmental regulations for SO2 and NOX.

9           A     To some extent all of them are. And it's  
10    related to the price elasticity issue. If you will,  
11    just a little diversion, to the extent that there's  
12    additional compliance costs and those costs are either  
13    passed on through the different cost recovery  
14    mechanisms as we've discussed, there will be a  
15    response to the price signal associated with that. So  
16    if prices go down, usage tends to go up, so that would  
17    affect the forecast when you get to the development of  
18    the forecast looking at the consumption by customer  
19    class. So there is an indirect relationship  
20    associated with potential changes in environmental  
21    compliance and the associated costs and how those  
22    costs are recovered.

23          Q     Can the high/low load forecasts adequately  
24    address the expectation of changes in environmental  
25    regulations for SO2 and NOX?



1           A     I will say that the -- it could be  
2 representative, but the bands were not developed with  
3 considerations specifically associated with  
4 compliance, additional compliance cost for NOX.

5           Q     Will adoption of the FGD system increase or  
6 decrease TECO's participation in the trading of  
7 emission allowances?

8           A     The expectation is that not to preclude that  
9 we could -- if it's more cost-effective to buy  
10 allowance versus to blend lower sulfur coal, that the  
11 expectation is, all other things considered equal,  
12 that we would, in fact, buy less allowances because of  
13 the benefits associated with the FGD system, and the  
14 fact that we would not have to blend as low in terms  
15 of lower amounts of low sulfur coal, which means the  
16 price on the fuel will not go up as much. So to the  
17 extent that's the most cost-effective thing to do we  
18 would do that in lieu of buying SO2.

19          Q     If you could turn now to what has been  
20 marked as Exhibit 17, TECO's response to Staff Request  
21 for Production No. 23.

22                     Does this exhibit show the assumptions or  
23 wholesale interchange TECO used in May 1998 C3A Phase  
24 II compliance report?

25          A     Yes. It shows the firm wholesale

1 interchange that was used in the final  
2 cost-effectiveness notice.

3 Q Would you clarify why there are differences  
4 between sales listed under the Phase II screening  
5 analysis assumptions and sales listed under the  
6 Phase II cost-effectiveness study assumptions?

7 A Yes. It was simply a timing issue. The  
8 screening analysis contained in the Phase II document  
9 was completed in the fall of 1996 and so it was using  
10 planning assumptions associated with the business  
11 planning cycle that occurs in the fall of 1996.

12 The final cost-effectiveness study relied on  
13 the business planning assumptions developed in the  
14 fall of 1997. So when you go from year to year you  
15 could have some changes in all of the assumptions, but  
16 particularly in this chart, we're talking about  
17 changes in the firm wholesale interchange assumptions.

18 MS. JAYE: I have no further questions.

19 COMMISSIONER DEASON: I have one question.  
20 How do you account for the revenues from the sale of  
21 your -- the royalties from the FGD patent?

22 WITNESS HERNANDEZ: The revenues are in the  
23 order of 50,000 to -- let me check. 50,000 in 1998,  
24 year to date, and about 100,000 in 1997. They were  
25 charged to account 456-01 Other Revenues, and were

1 treated above the line.

2 **COMMISSIONER DEASON:** Thank you.

3 **CHAIRMAN JOHNSON:** Redirect?

4 **MR. BEASLEY:** Could we have approximately  
5 three or four minutes.

6 **CHAIRMAN JOHNSON:** A break? I though you  
7 meant three or four minutes of redirect.

8 We'll go off the record. We'll go off the  
9 record for a couple of minutes.

10 (Discussion off the record.)

11 **MR. BEASLEY:** Very short.

12 **CHAIRMAN JOHNSON:** Let's wait one second.  
13 We're going to go back on the record.

14 **REDIRECT EXAMINATION**

15 **BY MR. BEASLEY:**

16 **Q** Mr. Hernandez, I've handed you copy of  
17 Mr. Black's exhibit CRB-1? Do you have that in front  
18 of you?

19 **A** Yes, I do.

20 **Q** Would you look at Bates stamp Page 5 of that  
21 document, and the AFUDC number of \$7,245,954 contained  
22 in that exhibit?

23 **A** Yes.

24 **Q** Is that a reasonable estimate for AFUDC for  
25 purposes of your cost-effectiveness calculations?

1           **MR. HOWE:** Objection. I've already asked  
2 Mr. Hernandez on direct if he was familiar with what  
3 AFUDC rate was used. He said that he was not. I  
4 asked if he used the AFUDC rate reflected in Rule  
5 25-6.0141. He said he did not know. He's not in a  
6 position to express an opinion on the reasonableness  
7 of the dollar amount of AFUDC calculated by a  
8 mechanism he's unfamiliar with.

9           **MR. BEASLEY:** This is a different number  
10 than what was asked for earlier. And I think  
11 Mr. Hernandez can clarify that for Mr. Howe.

12           **MR. HOWE:** I'm sorry, the objection still  
13 stands.

14           **CHAIRMAN JOHNSON:** What was your question?  
15 You said this is a different --

16           **MR. BEASLEY:** Can he verify the  
17 reasonableness of this amount shown in Bates stamp  
18 Page 5 or purposes -- or as was used in his  
19 cost-effectiveness calculation.

20           **CHAIRMAN JOHNSON:** Mr. Howe.

21           **MR. HOWE:** My objection still stands. I  
22 asked Mr. Hernandez on cross examination if he was  
23 aware of how the AFUDC rate was calculated, and  
24 whether it was calculated consistent with the rule.  
25 He did not know. But it was the AFUDC rate period.

1 to be assuming that rate is reasonable, that  
2 calculation is reasonable and he said he didn't know  
3 about the rate.

4 **MR. HOWE:** He said he didn't know about the  
5 rate so he's in no position to state that the  
6 calculation based on the rate is reasonable for record  
7 purposes. This is evidence. He's expressing an  
8 opinion and he's not qualified to give it.

9 **CHAIRMAN JOHNSON:** Objection overruled and  
10 the answer will stand.

11 **MR. BEASLEY:** Thank you.

12 **CHAIRMAN JOHNSON:** Anything else?

13 **MR. BEASLEY:** That's all we have other,  
14 Commissioners, other than to move the admission of the  
15 balance of Mr. Black's Exhibit No. 2 and  
16 Mr. Hernandez's Exhibit 12.

17 **MR. HOWE:** I object to admission of Document  
18 No. 4 of Mr. Black's exhibits. It has not been  
19 established that the AFUDC --

20 **MR. BEASLEY:** Which one are you referring  
21 to?

22 **MR. HOWE:** He said the remainder of  
23 Mr. Black's exhibits, I assume you mean Document 4,  
24 which is the Bates stamp No. 5 page. He's still  
25 not -- I object. It has not been established as

1 reasonable by anybody qualified to give such an  
2 opinion. The AFUDC amount and the total project  
3 amount should be stricken from the exhibit.

4 **CHAIRMAN JOHNSON:** And, Mr. Howe, give me  
5 your rationale, the reason. I understand that --

6 **MR. HOWE:** The issue is whether or not  
7 the -- I asked Mr. Black, for example, if he knew  
8 where the AFUDC rate came from. He did not. I asked  
9 Mr. Hernandez. He doesn't know. He doesn't know if  
10 it's consistent with the Commission's rule. As such,  
11 you have no evidence, no witness testifying, really,  
12 that this dollar amount, this \$7,245,954 amount is  
13 reasonable. Since that's -- hasn't been established  
14 it's reasonable, the total has not been established  
15 either.

16 **MR. BEASLEY:** Madam Chairman, the witness  
17 has testified and it's been permitted for him to  
18 testify as to his opinion regarding the reasonableness  
19 of this number. And all the total is is simply this  
20 number, which he has provided a foundation for, added  
21 to the other numbers that produces the total. That's  
22 just an arithmetic function. So we submit there's a  
23 proper predicate for his opinion.

24 **CHAIRMAN JOHNSON:** I'm going to allow the  
25 document to come in. The information and the cross

1 that you provided will definitely go to weight them.  
2 I'm going to allow the admissibility. And do you have  
3 other --

4 **MR. BEASLEY:** Exhibit 12.

5 **CHAIRMAN JOHNSON:** Show that admitted.

6 **MR. HOWE:** We would move the admission of  
7 Exhibit 13.

8 **CHAIRMAN JOHNSON:** 12 without objection.  
9 Show Exhibit 13 admitted without objection. And  
10 Staff?

11 **MS. JAYE:** Staff moves Exhibits 14 through  
12 17.

13 **CHAIRMAN JOHNSON:** Show those admitted  
14 without objection.

15 (Exhibits 2 and 12 through 17 received in  
16 evidence.)

17 **CHAIRMAN JOHNSON:** Thank you, sir. You're  
18 excused.

19 **WITNESS HERNANDEZ:** Thank you.

20 **MS. JAYE:** Staff would also like to remind  
21 the parties of the dates left on the -- in this  
22 proceeding, if this is the proper time.

23 **CHAIRMAN JOHNSON:** Uh-huh.

24 **MS. JAYE:** Okay. The transcripts are due --

25 **CHAIRMAN JOHNSON:** We forgot, we have the

1 testimony. The stipulated testimony. You need to go  
2 ahead and take care of that. Mr. McWhirter.

3 **MR. McWHIRTER:** I'd like to offer the  
4 prefiled direct testimony of Mr. Selecky as amended in  
5 the Prehearing Order.

6 **CHAIRMAN JOHNSON:** Show that inserted into  
7 the record as though read.

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**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION****DIRECT TESTIMONY AND EXHIBIT****OF****JAMES T. SELECKY**

1 **Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 **A James T. Selecky; 1215 Fern Ridge Parkway, Suite 208; St. Louis,**  
3 **MO 63141-2000.**

4 **Q WHAT IS YOUR OCCUPATION AND BY WHOM ARE YOU**  
5 **EMPLOYED?**

6 **A I am a consultant in the field of public utility regulation with the firm**  
7 **of Brubaker & Associates, Inc. (BAI), energy, economic and**  
8 **regulatory consultants.**

9 **Q PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND**  
10 **EXPERIENCE.**

11 **A These are set forth in Appendix A to this testimony.**

12 **Q ON WHOSE BEHALF ARE YOU PRESENTING TESTIMONY IN THIS**  
13 **PROCEEDING?**

14 **A I am appearing on behalf of the Florida Industrial Power Users Group**  
15 **(FIPUG). FIPUG members are customers of Tampa Electric Company**

1 (TECo or Company). They purchase substantial quantities of electric  
2 power and energy under various firm and interruptible tariffs.

3 **Q WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

4 A I will address TECo's Petition which seeks the Florida Public Service  
5 Commission's (Commission) approval of cost recovery for the  
6 proposed Flue Gas Desulfurization (FGD) for Big Bend Units 1 and 2.  
7 ~~In addition, I will address some of the issues raised by the Staff in its~~  
8 ~~Second Amended List of Preliminary Issues in this Docket.~~

9 **Q WHAT CONCLUSIONS HAVE YOU REACHED?**

10 A The Company's request for cost recovery through the Environmental  
11 Cost Recovery Clause (ECRC) is premature and should be denied.  
12 However, if the Commission authorizes recovery of the FGD costs  
13 ~~through the ECRC in this case, the recovery period should be set at~~  
14 ~~a minimum of 20 years, the rate of return on common equity should~~  
15 ~~be set at the low end of the Commission-approved range and a cap~~  
16 ~~should be established for the amount of equity included in the capital~~  
17 ~~structure that is used to develop the ECRC surcharges.~~

18 **Response to TECo's Petition**

19 **Q WHAT IS TECO SEEKING IN ITS PETITION?**

1 A The Company requests Commission approval for cost recovery of the  
2 Big Bend Units 1 and 2 FGD system through the ECRC, ~~over a ten-~~  
3 ~~year recovery period.~~

4 Q **SHOULD THE COMMISSION APPROVE RECOVERY OF THE COST OF**  
5 **THE FGD THROUGH THE ECRC?**

6 A No. The Company's request for cost recovery through the ECRC is  
7 premature and should be denied.

8 Q **WHY IS TECO'S PETITION FOR COST RECOVERY PREMATURE?**

9 A First, the costs for which TECo is seeking recovery are related to  
10 Clean Air Act Amendment (CAAA) compliance. I am advised by  
11 counsel that before the Commission can consider cost recovery for  
12 CAAA compliance activities, it should first review a plan submitted by  
13 the utility pursuant to Section 366.825, Florida Statutes (1997), to  
14 determine whether a utility's compliance plan, the costs necessarily  
15 incurred to implement such a plan and any effect on rates resulting  
16 from such implementation are in the public interest. TECo has not  
17 provided the information needed to make such a determination in this  
18 case. Only when the Commission has approved such a plan can the  
19 utility seek recovery of the costs through the ECRC (Section

1 366.8255(2), Florida Statutes). However, TECo has not yet received  
2 approval for the proposed FGD system under Section 366.825.  
3 Consequently, its Petition for cost recovery is premature.

4 **Q ARE THERE OTHER REASONS THAT THE COMPANY'S PETITION**  
5 **FOR COST RECOVERY IS PREMATURE?**

6 **A** Yes. First, the proposed FGD system is not projected to commence  
7 operation until sometime in the year 2000. It is only possible to  
8 speculate what conditions might be like in the year 2000 that may  
9 warrant a different cost recovery treatment or no cost recovery at all.

10 For example, it is likely that, given its past history, TECo could  
11 continue to earn well in excess of a reasonable return on equity  
12 (ROE). This would be significant because a utility that earns a  
13 reasonable ROE is already fully recovering its cost of service.  
14 Consequently, a further adjustment to rates, such as imposing a  
15 surcharge or increasing a non-fuel related adjustment factor (i.e.,  
16 ECRC), is unnecessary to give the utility a reasonable *opportunity* to  
17 earn a reasonable ROE on its prudent investment. Thus, cost  
18 recovery through the ECRC may not be needed to provide TECo the  
19 *opportunity* to recover the costs of the proposed FGD system.

1           To permit TEGo to pass the costs of incremental investments  
2 through the ECRC, while it is earning a reasonable ROE or exceeding  
3 its authorized ROE including the incremental investment, is an  
4 invitation to create further over-earnings. This result would be  
5 detrimental to the utility's customers and is not reasonable or in the  
6 public interest.

7 **Q   WHAT WOULD BE THE CONSEQUENCES OF DECIDING THE COST**  
8 **RECOVERY ISSUE AT THIS TIME?**

9 **A**   By making assumptions now about events that will not be known and  
10 measurable until the year 2000, when the proposed FGD system is  
11 projected by TEGo to commence operation, customers could be  
12 forced to pay rates that are higher than the actual cost of providing  
13 service. The Commission can prevent this outcome by waiting until  
14 commercial operation before deciding cost recovery issues. Deferring  
15 a decision until then would protect customers' interests. Further,  
16 there would be no harm to TEGo since these costs cannot actually be  
17 recovered prior to commercial operation.

18 **Q   HOWEVER, IF THE COMMISSION DECIDES THE COST RECOVERY**  
19 **ISSUES IN THIS DOCKET, UNDER WHAT CIRCUMSTANCES SHOULD**

1           **TECo BE PERMITTED TO RECOVER THE COSTS OF THE FGD**  
2           **THROUGH THE ECRC?**

3    A       To the extent TECo is earning within its authorized ROE range, it will  
4           be recovering the costs of the FGD and no additional collection from  
5           consumers should be permitted.

6    Q       **WOULD THE EARNING CAP MECHANISMS CURRENTLY IN PLACE**  
7           **PREVENT CUSTOMERS FROM PAYING EXCESSIVE RATES?**

8    A       No. I have no evidence that the rate freeze is presently being applied  
9           to cost recovery mechanisms. Even if TECo is properly accounting  
10          for recoveries in excess of 11.75% in its reports to the Commission,  
11          the rate freezes and refund mechanisms for excess earnings expire at  
12          the end of 1999. Therefore, the customers have no guarantee that  
13          they will not be paying excessive rates in 2000.

14 ~~Q       **SHOULD THE COMMISSION APPROVE A TEN-YEAR RECOVERY**~~  
15 ~~**PERIOD FOR THE FGD SYSTEM?**~~

16 ~~A       No. As discussed later in my testimony in response to Staff's Second~~  
17 ~~Amended List of Preliminary Issues, I do not believe that a ten-year~~  
18 ~~recovery period is appropriate. A more appropriate recovery period.~~

1 ~~would be 20 to 30 years, which approximates the useful life of the~~  
2 ~~proposed FGD.~~

3 **Q IF THE COMMISSION GRANTS TECO'S PETITION FOR COST**  
4 **RECOVERY, SHOULD ALL OF THE COSTS BE RECOVERED FROM**  
5 **THE COMPANY'S RETAIL JURISDICTION?**

6 **A** No. Although I believe it is premature to address cost recovery issues  
7 in this docket, should the Commission authorize cost recovery  
8 through the ECRC, then it is my recommendation that retail customers  
9 should not bear 100% of the costs of the proposed FGD system.  
10 TECo has been, and continues to be, an active player in wholesale  
11 power markets. For example, during 1997, 17.3% of its energy sales  
12 were made to wholesale customers (TECo Annual Report, p. 22).  
13 Since TECo will use Big Bend Units 1 and 2, in part, for wholesale  
14 sales, it would be inequitable for retail customers to pay all of the  
15 FGD costs.

16 Also, it is my understanding that, absent CAAA compliance,  
17 TECo could not operate Big Bend Units 1 and 2. Consequently, the  
18 availability of energy for resale in the wholesale market would be  
19 critically impacted by the continued operation of Big Bend Units 1 and

1           2. For this reason, wholesale sales should be allocated a proportional  
2           share of the FGD system costs.

3   **Q    HOW SHOULD THE COSTS BE ALLOCATED TO WHOLESALERS**  
4   **SALES?**

5   **A    While FIPUG strongly disagrees with the use of an energy allocator,**  
6           if the Commission employs an energy allocator to assign cost  
7           responsibility to the retail rate classes, it should use an energy  
8           allocator to assign costs to the wholesale class. In addition, to the  
9           extent that any of the wholesale contracts relate to purchases  
10          specifically from Big Bend Units 1 and 2, cost allocations should be  
11          made consistent with those contracts.

12   **Response to Staff Issues**

13   **Q    IF THE COMMISSION DECIDES COST RECOVERY ISSUES IN THIS**  
14   **DOCKET, WHAT ARE YOUR RECOMMENDATIONS REGARDING THE**  
15   **PARAMETERS OF COST RECOVERY?**

16   **A    As discussed above, it is premature for the Commission to decide**  
17           cost recovery issues at this time. Further, no recovery should be  
18           allowed if, as discussed earlier, TECo is earning within its authorized



1 common equity ratio is getting too high. It did so by capping the  
2 equity ratio at 58.7%.

3 Further, TECo's authorized ROE range is excessive based on  
4 current conditions. It is my opinion that if the Commission were  
5 setting an ROE for TECo today, it would be in the range of 3% to 4%  
6 over its marginal debt cost of approximately 7%. This would produce  
7 an ROE of 10% to 11%. This level of ROE is more consistent with  
8 ROEs authorized by state regulators.

9 This recommendation, in part, reflects TECo's lower regulatory  
10 risk. Unlike most utilities around the nation, TECo is permitted to  
11 recover a portion of its non-fuel and purchased power costs through  
12 adjustment clauses. These adjustment clauses reduce regulatory lag  
13 and provide virtually guaranteed dollar-for-dollar recovery of prudent  
14 costs. Thus, TECo has lower regulatory risk than most utilities.

15 For all of the above reasons, should the Commission approve  
16 an ROE for the proposed FGD System in this docket, it is my  
17 recommendation that the lower end of the authorized ROE range, or  
18 10.75% should be used. Because of TECo's high common equity  
19 ratio, which is discussed below in my testimony, it is appropriate to

1           Therefore, to use a common equity ratio any higher would produce  
2           unreasonable customer rates.

3   **Q    [ISSUE 13] SHOULD THE COMMISSION APPROVE TECO'S REQUEST**  
4   **FOR RECOVERY OF THE PROPOSED FGD SYSTEM ON BIG BEND**  
5   **UNITS 1 AND 2 OVER A TEN-YEAR PERIOD?**

6   **A    No. The Commission should authorize an amortization period equal**  
7   **to the useful life of the facility of the investment. Based on my**  
8   **review of the information, I would recommend an amortization period**  
9   **of at least 20 years.**

10 **Q    WHY IS TECO PROPOSING TO RECOVER THE INVESTMENT IN THE**  
11 **FGD SYSTEM OVER A TEN-YEAR PERIOD?**

12 **A    TECo states in the testimony of Thomas L. Hernandez that the**  
13 **determination of the ten-year period was based on the goal of**  
14 **"mitigating potential stranded cost" (page 14). TECo's proposed ten-**  
15 **year period is not based on any useful life, but rather on TECo's**  
16 **efforts to have current customers subsidize its preparation for**  
17 **competition.**

18 **Q    IS A TEN-YEAR RECOVERY PERIOD JUSTIFIED IN ORDER TO**  
19 **MINIMIZE POTENTIALLY STRANDED COSTS?**

1 Q ~~[ISSUE 14] WHAT IS THE APPROPRIATE DEPRECIATION RATE FOR~~  
2 ~~THE PROPOSED FGD SYSTEM ON BIG BEND UNITS 1 AND 2?~~

3 A ~~The appropriate depreciation rate would depend on the projected life~~  
4 ~~of Big Bend Units 1 and 2 and whether or not any portion of this~~  
5 ~~investment would continue to be used and useful beyond the~~  
6 ~~economic life of these units.~~

7 Q ~~IF THE COMMISSION ESTABLISHES A DEPRECIATION RATE FOR~~  
8 ~~THE PROPOSED FGD SYSTEM FOR BIG BEND UNITS 1 AND 2,~~  
9 ~~WHAT SHOULD BE THE RATE?~~

10 A ~~Although setting a depreciation rate in this docket would be~~  
11 ~~premature, the period the Commission selects to amortize the~~  
12 ~~investment for the FGD system should also be used to depreciate the~~  
13 ~~units for book depreciation purposes.~~

14 Q ~~WHAT ACTION DO YOU RECOMMEND THE COMMISSION TAKE ON~~  
15 ~~TECO'S PETITION?~~

16 A ~~The Company's request for cost recovery through the Environmental~~  
17 ~~Cost Recovery Clause (ECRC) is premature and should be denied.~~  
18 ~~However, if the Commission authorizes recovery of the FGD costs~~  
19 ~~through the ECRC in this case, the recovery period should be set at~~

1 ~~a minimum of 20 years, the rate of return on common equity should~~  
2 ~~be set at the low end of the Commission-approved range and a cap~~  
3 ~~should be established for the amount of equity included in the capital~~  
4 ~~structure that is used to develop the ECRC surcharges.~~

5 Q DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

6 A Yes.

**QUALIFICATIONS OF JAMES T. SELECKY**

1 Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

2 A James T. Selecky. My business mailing address is P. O. Box 412000,  
3 St. Louis, Missouri 63141-2000.

4 Q PLEASE STATE YOUR OCCUPATION.

5 A I am a consultant in the field of public utility regulation and am a  
6 principal in the firm of Brubaker & Associates, Inc., energy, economic  
7 and regulatory consultants.

8 Q PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND  
9 PROFESSIONAL EMPLOYMENT EXPERIENCE.

10 A I graduated from Oakland University in 1969 with a Bachelor of  
11 Science degree with a major in Engineering. In 1978 I received the  
12 degree of Master of Business Administration with a major in finance  
13 from Wayne State University. I have also done graduate work in the  
14 field of economics at Wayne State University.

15 I was employed by The Detroit Edison Company (DECo) in April  
16 of 1969 in its Professional Development Program. My initial  
17 assignments were in the engineering and operations divisions where  
18 my responsibilities included evaluation of equipment for use on the  
19 distribution and transmission system; equipment performance testing  
20 under field and laboratory conditions; and trouble-shooting and  
21 equipment testing at various power plants throughout the DECo

1 system. I also worked on system design and planning for system  
2 expansion.

3 In May of 1975, I transferred to the Rate and Revenue  
4 Requirement area of DECo. From that time, and until my departure  
5 from DECo in June, 1984, I held various positions which included  
6 economic analyst, senior financial analyst, supervisor of  
7 Rate Research Division, supervisor of Cost-of-Service Division and  
8 director of the Revenue Requirement Department. In these positions,  
9 I was responsible for overseeing and performing economic and  
10 financial studies and book depreciation studies, developed fixed  
11 charge rates and parameters and procedures used in economic  
12 studies, providing a financial analysis consulting service to all areas  
13 of DECo, developing and designing rate structure for electrical and  
14 steam service, analyzing profitability of various classes of service and  
15 recommending changes therein, determining fuel and purchased  
16 power adjustments and all aspects of determining revenue  
17 requirements for rate-making purposes.

18 In June of 1984, I joined the firm of Drazen Brubaker & Associ-  
19 ates, Inc. In April, 1995 the firm of Brubaker & Associates, Inc. (BAI)  
20 was formed. It includes most of the former DBA principals and staff.

1 Q HAVE YOU PREVIOUSLY APPEARED BEFORE A REGULATORY  
2 COMMISSION?

3 A Yes. I have testified on behalf of DECo in its steam heating cases.  
4 In these cases I have testified to changes in book depreciation rates,  
5 rate design and revenue deficiency. I also testified in a DECo main  
6 electric rate case on rate base, income statement adjustments and  
7 interim and final revenue deficiencies.

8 In addition, I have testified before the regulatory commissions  
9 of the States of Colorado, Connecticut, Georgia, Illinois, Indiana,  
10 Kansas, Maryland, Massachusetts, Missouri, New Hampshire, New  
11 Jersey, New York, North Carolina, Ohio, Oklahoma, Texas, Wisconsin  
12 and Wyoming, and the Provinces of Saskatchewan and Alberta. I  
13 also have testified before the Federal Energy Regulatory Commission.  
14 In addition, I have filed testimony in proceedings before the regulatory  
15 commissions in the States of Iowa and New York. My testimony has  
16 addressed revenue requirement issues, cost of service, rate design,  
17 financial integrity, accounting-related issues, merger-related issues,  
18 and performance standards. The revenue requirement testimony has  
19 addressed book depreciation rates, decommissioning expense, O&M

1 expense levels, and rate base adjustments for items such as plant  
2 held for future use, working capital, and post test year adjustments.

3 **Q ARE YOU A REGISTERED PROFESSIONAL ENGINEER?**

4 **A** Yes, I am a registered professional engineer in the State of Michigan,  
5 based upon state examinations.

6



1                   **MR. BEASLEY:** We would also offer  
2 Mr. Hernandez rebuttal testimony as amended, that it  
3 being inserted into the record.

4                   **CHAIRMAN JOHNSON:** Show that inserted into  
5 the record as though read.

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TAMPA ELECTRIC COMPANY  
DOCKET NO. 980694 E1  
SUBMITTED FOR FILING 08/17/98

1                   BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

2                                   REBUTTAL TESTIMONY

3   OF

4                                   THOMAS L. HERNANDEZ

5  
6 Q.   Please state your name, business address and position with  
7 Tampa Electric Company.

8  
9 A.   My name is Thomas L. Hernandez. My business address is 702  
10 North Franklin Street, Tampa, Florida, 33602. I am the Vice  
11 President-Regulatory Affairs for TEPC Energy, Tampa Electric  
12 Company's parent.

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

15 A.   Through a series of issue identification conferences, the  
16 parties have agreed that all issues relating to new costs  
17 associated with Tampa Electric's proposed FGD system will be  
18 recovered through the Environmental Cost Recovery Clause  
19 (ECRC) would be more appropriately considered when Tampa  
20 Electric requests authorization of an ECRC factor for recovery  
21 of the FGD system. However, Florida Industrial Power Users  
22 Group (FIPUG) witness Selecky has raised several issues which  
23 appear to be related to cost recovery through the ECRC. The  
24

1 purpose of my rebuttal testimony is to address the  
2 deficiencies in Mr. Selecky's direct testimony.

3 Q. On page 3 and page 4 of his testimony, Mr. Selecky claims that  
4 Tampa Electric's Petition for Cost Recovery is premature. How  
5 do you respond?

6  
7 A. I disagree with his assessment. First of all, we are not  
8 seeking recovery of any of the actual costs associated with  
9 our proposed FGD system in this proceeding. Instead, Tampa  
10 Electric is seeking a determination by the Commission that the  
11 proposed project is reasonable, prudent and the most cost  
12 effective means of complying with the SO<sub>2</sub> emissions  
13 limitations of Phase II of the Clean Air Act Amendments  
14 (CAAA). In addition, Tampa Electric is seeking a determination  
15 that the project-related costs determined by the Commission to  
16 be reasonable and prudently incurred will be recovered through  
17 the ECRC.

18  
19 Tampa Electric has evaluated numerous alternatives in an  
20 attempt to select the most appropriate and cost effective  
21 alternative available to the Company. All of our analyses  
22 clearly indicate that the proposed FGD system is the most  
23 cost-effective and otherwise appropriate means of achieving  
24 this end. Mr. Selecky has presented no evidence to the  
25 contrary.

1 Given the appropriateness of the FGD project, it is therefore  
2 not premature to determine that the ECRG is the appropriate  
3 mechanism for cost recovery of the FGD system. This  
4 Commission has encouraged utilities to seek an early  
5 determination for capital expended for environmental  
6 compliance so that guidance can be provided by the Commission  
7 with respect to such projects. Consequently, the Commission  
8 should find that the proposed FGD project is the most cost-  
9 effective alternative and is eligible for ECRG recovery at the  
10 earliest possible time so that all parties can plan  
11 accordingly.

12  
13 Q. At page 3 of his testimony, Mr. Selecky reports a legal  
14 opinion given to him by counsel for FPLGS to the effect that  
15 Tampa Electric was required, as a matter of law, to file under  
16 Section 366.825, Florida Statutes (1997), for a prudence  
17 review before seeking cost recovery. Mr. Selecky further  
18 asserts that since Tampa Electric has not done so, in his  
19 view, has failed to provide the information required under the  
20 above-mentioned Section, Tampa Electric's petition in this  
21 proceeding is premature. Do you agree?

22  
23 A. Mr. Selecky is simply wrong in this assertion. I am not  
24 testifying as a legal expert, nor, to my knowledge, is Mr.  
25 Selecky. However, the flaws in Mr. Selecky's assertions were

1 addressed directly in Tampa Electric's responses to the  
 2 motions to dismiss filed by FERC and EP in this proceeding.

3  
 4 Q. On page 4 of his testimony, Mr. Seberry states that the  
 5 Company's proposal is premature to make we do not know what  
 6 the Company's financial picture will be in the year 2000. How  
 7 do you respond?

8  
 9 A. This line of argument is not germane to this proceeding and  
 10 represents an effort to re-litigate an issue which has already  
 11 been squarely and unambiguously resolved by this Commission.  
 12 In Docket No. 930613-EI, the Commission rejected the Florida  
 13 Public Counsel's attempt to require FERC to re-evaluate Tampa  
 14 Electric's earnings picture. The Commission stated in Order No. 93-04  
 15 0044-FOF EI:

16 Thus, we find that the Federal law already intended  
 17 the recovery of investment carrying costs and O&M  
 18 expenses through the environmental cost recovery  
 19 clause. For this reason, Florida Public Counsel's application  
 20 must be rejected.

21 Accordingly, we find that at the present time Tampa  
 22 Electric is currently earning a fair rate of return, that it  
 23 should be able to recover, upon petition, prudently  
 24 incurred environmental compliance costs through the  
 25 ECRG if such costs were incurred after the

1 effective date of the environmental compliance cost  
2 legislation and if such costs are not being  
3 recovered through any other cost recovery  
4 mechanism.

5 In addition, this order is consistent with numerous decisions  
6 by this Commission allowing cost recovery under the fuel,  
7 capacity, conservation and environmental clauses for the  
8 Florida investor-owned utilities that was not dependent on  
9 earnings.

10  
11 Since the Commission has already determined that earning  
12 within an allowed return on equity range should not impact the  
13 recovery of costs through the ECRC, it is not necessary to  
14 address or speculate about the Company's financial status in  
15 the year 2000 in order to consider the reasonableness and  
16 prudence of the Company's proposal.

17  
18 Q. On page 5 of his testimony, Mr. Selecky further states that  
19 the FPSC should not decide whether to allow recovery through  
20 the ECRC at this time because we will be making assumptions  
21 about events that will not be known until 2000. Therefore, he  
22 concludes, customers could be forced to pay rates that are  
23 higher than the actual costs of providing service. Could you  
24 please address Mr. Selecky's concern?

25

1 A. Yes. I disagree with his concern. The Company will only flow  
2 costs through the ECRC that have been approved by the  
3 Commission. These costs will be identifiable and prudent as  
4 measured by the Commission, and will only be recovered after  
5 the Commission has reviewed such costs. Therefore, customers  
6 will never be "forced to pay rates that are higher than the  
7 actual cost of providing service."

8  
9 Q. Witness Selecky states that a different cost recovery  
10 treatment or no cost recovery at all may be warranted because  
11 the Company may earn in excess of its allowed return on equity  
12 range. Could you please address this statement?

13  
14 A. Yes. This Commission has an effective, continuing  
15 surveillance program that assures that the Company is earning  
16 within a return on equity range considered reasonable by the  
17 Commission. Therefore, there should not be a concern that the  
18 Company is overearning on its retail rate base at the same  
19 time that it is recovering costs through the ECRC.

20  
21 In addition, cost recovery through the ECRC is unrelated to  
22 what the Company is earning on its rate base. The ECRC was  
23 established by the legislature and has been implemented by  
24 this Commission to provide for recovery of any environmental  
25 compliance costs not recovered in base rates and which are





1 sales be allocated a share of the FGD System costs. How do  
2 you respond to his proposed cost allocation?

3  
4 A. The question of what costs will be allocated to the wholesale  
5 jurisdiction should be raised, if at all, in an ECRC cost  
6 recovery proceeding when Tampa Electric proposes to commence  
7 cost recovery. We do not believe at this phase of the  
8 proceeding that issues regarding cost allocation are relevant  
9 to determining the reasonableness and prudence of the  
10 Company's selection of its proposed FGD system as the most  
11 cost-effective means of complying with Phase II of the CAAA  
12 and the appropriateness of the ECRC as the recovery mechanism  
13 of prudently incurred project-related costs.

14  
15 In any event, it is clear that Mr. Selecky's concerns are  
16 based on a misunderstanding of Tampa Electric's current cost  
17 allocation practices. In the normal course of events, Tampa  
18 Electric would allocate costs such as those related to the FGD  
19 system to its retail and firm wholesale load, on an equal-  
20 cents-per-Kwh basis. Therefore, Mr. Selecky's concerns with  
21 regard to firm wholesale sales are unfounded. To the extent  
22 that Mr. Selecky is suggesting that fixed costs, such as the  
23 FGD- related costs, should be allocated to economy energy  
24 sales, he is advocating a course of action which would be  
25 illogical and unfair to retail and wholesale economy energy

1 customers alike. First of all, the allocation of fixed costs  
2 to economy transactions is inconsistent with the economic  
3 objective of engaging in such transactions and would lead to  
4 a reduction in the number and volume of such transactions. As  
5 a result, the retail ratepayers would suffer the loss of the  
6 80 percent revenue credit of the margin earned by Tampa  
7 Electric from these sales. In addition, the allocation of  
8 such fixed costs to economy energy transactions would result  
9 in double recovery of SO<sub>2</sub> compliance costs. To the extent  
10 that economy energy transactions cause Tampa Electric to incur  
11 incremental SO<sub>2</sub> compliance costs, those costs are  
12 automatically included in the quotes made under the current  
13 Florida Broker mechanism.

14

15 Q. Does this conclude your testimony?

16

17 A. Yes, it does.

18

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1           **CHAIRMAN JOHNSON:** Mr. McWhirter, there were  
2 exhibits that we haven't marked yet.

3           **MR. McWHIRTER:** I think his resume would  
4 deal with his qualifications as an expert.

5           **CHAIRMAN JOHNSON:** There's a capital  
6 structure at 12-31-87. There are a couple of  
7 exhibits. I'll go ahead and mark them.

8           **MR. McWHIRTER:** Yes, if you would. I'd like  
9 to offer them without objection.

10          **CHAIRMAN JOHNSON:** Did they strike that?

11          **COMMISSIONER CLARK:** They should be in the  
12 Prehearing Order.

13          **MR. McWHIRTER:** Do we have capital  
14 structure, is that an exhibit?

15          **CHAIRMAN JOHNSON:** It looks like -- yeah, it  
16 looks like that was stricken or withdrawn. So the  
17 only other thing might have been the Appendix A, which  
18 is the qualifications.

19          **MR. McWHIRTER:** I'll offer that as part of  
20 his testimony.

21          **CHAIRMAN JOHNSON:** His qualifications, we'll  
22 just insert that into the record, too, as though read.

23          **MR. BEASLEY:** Madam Chairman, just a point  
24 of clarification. The rebuttal testimony of  
25 Mr. Hernandez was not amended. It was his direct

1 testimony that was amended.

2 **CHAIRMAN JOHNSON:** Thank you for that  
3 clarification.

4 Now, any other preliminary matters or final  
5 matters before we go into the procedural matters? I  
6 think we're prepared to go to the procedural matters.

7 **MS. JAYE:** Thank you, Madam Chairman.

8 Transcripts will be due from this hearing on  
9 the 11th of this month. Staff notes an error in the  
10 CSAR which will be corrected when we refile to reflect  
11 the reply briefs, and that is a standard order is  
12 mentioned right under "transcripts due date."  
13 Standard order is not due on September 21st. That  
14 will be stricken off of the CSAR.

15 Briefs are due on October 2nd. Reply briefs  
16 will be due October 9th. A Staff recommendation on  
17 November 5th. Regular agenda, November 17th. A  
18 standard order on December 7th. And the docket will  
19 be closed or the CSAR revised on the 6th of January.

20 **CHAIRMAN JOHNSON:** Any questions? Is there  
21 something else?

22 **MS. JAYE:** There's nothing else.

23 **CHAIRMAN JOHNSON:** This hearing is  
24 adjourned.

25 (Thereupon, hearing adjourned at 5:25 p.m.)

1 STATE OF FLORIDA)  
 : CERTIFICATE OF REPORTERS  
 2 COUNTY OF LEON )

3 We, JOY KELLY, CSR, RPR, Chief, Bureau of  
 Reporting and H. RUTHE POTAMI, CSR, RPR, Official  
 4 Commission Reporters,

5 DO HEREBY CERTIFY that the Hearing in Docket  
 No. 980693-EI was heard by the Florida Public Service  
 6 Commission at the time and place herein stated; it is  
 further

7  
 8 CERTIFIED that we stenographically reported  
 the said proceedings; that the same has been  
 transcribed by us; and that this transcript,  
 9 consisting of 329 pages, Volumes 1 and 2, constitutes  
 a true transcription of our notes of said proceedings  
 10 and the insertion of the prescribed prefiled testimony  
 of the witnesses.

11 DATED this 10th day of September, 1998.  
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 \_\_\_\_\_  
 JOY KELLY, CSR, RPR  
 Chief, Bureau of Reporting  
 (850) 413-6732

  
 \_\_\_\_\_  
 H. RUTHE POTAMI, CSR, RPR  
 Official Commission Reporter